

# air365 Max

VARIABLE REFRIGERANT FLOW SYSTEM  
HEAT PUMP & COOLING MODEL

Cooling & Heating



## Johnson Controls-Hitachi Air Conditioning India Limited

**HEAD OFFICE & WORKS**  
Hitachi Complex, Karan Nagar, Kadi,  
Distt.- Mehsana - 384440, Gujarat, India.



**Call: 079-7141-4848 (Landline)**  
Mobile/WhatsApp: 756788-4848  
E-mail: [customercare@jci-hitachi.com](mailto:customercare@jci-hitachi.com)

Email: [sales@jci-hitachi.com](mailto:sales@jci-hitachi.com)  
Website: [www.hitachiaircon.com/in](http://www.hitachiaircon.com/in)

**REGISTERED OFFICE**  
9th Floor, Abhijeet – I, Mithakhali Six Roads,  
Ahmedabad – 380 006, Gujarat, India.



This is an e-waste product and should not be mixed with general household waste at the end of its life. For more details, kindly visit our website or contact Hitachi Dial-a-Care.

T - +91-79-26402024  
CIN No. L29300GJ1984PLC007470

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For further details on T&C and disclaimer in the entire brochure please refer to our company website.

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by best service at your nearest dealer/retail outlet.**

May 2024



NEW  
2024



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## The beauty of balance

No matter what the weather is like outside, when you're indoors, you want to have complete control over your environment. At work or play, awake or asleep, you're free to create your own atmosphere; balancing energy with calm, sound with silence and light with shade. It's the same for cooling and heating.

When the air around you is in balance, you can enjoy life indoors that much more.

## Air. It's a wonderful thing.

Invisible, silent and life-giving, air makes our entire world possible. It surrounds us, continuously energizing, cooling and warming. It can be unpredictable and sometimes challenging, but when air is in harmony with us, everything seems that much easier.

This is our vision.  
To create the air that makes life better.



## Living Harmony

At Hitachi Cooling & Heating we like to think of this as creating harmony with your interior environment. When we achieve that wonderful balance, productivity, learning, happiness and health can thrive.

We call this 'Living Harmony' and it's at the center of everything we do.



## The future together

Living Harmony puts people first. By balancing the human needs of our customers with an uncompromising approach to innovation and quality, we can continue to create the technologies for a more comfortable and balanced world.

Your world. We live in it together.



# Adapted to your spaces



Office



### FLEBILITY

- A COMPLETE solution for whole office spaces; Large ESP Ducted IDU or AHU integrated to VRF for large entrance & conference room, Ventilation units and VRF indoor units for any working space
- Any shape of buildings including high-rise one can be suitable for VRF unit, with max 110m height difference & total 1,000m piping length availability

### SUSTAINABLE GROWTH

- Highest EER max up to 5.50 & specially optimized operation for part-load operation thanks to SmoothDrive 2.0 technology
- Smart monitoring and control: to cut the wasteful energy consumption by each checking status of units from airCloud Pro anywhere anytime

### WELL-BEING

- Right temperature & right feeling of airflow with multiple comfort features based on reliable occupant sensing and other integrated intelligent features.



Hotel



### FLEBILITY

- Compact yet powerful cabinet of modular combination capability is SPACE-SAVING solutions, enabling placement on anywhere and transportation can be easier
- Higher flexibility of piping length can help ODUs installed all in one place so that whole installation cost can be decreased & for maintenance ease & less indoor noise bothering

### SUSTAINABLE GROWTH

- Less is More!: thanks to max 200% IDU combination capacity, purchase fewer ODUs is okay!
- Efficiency designed-in; Highest EER max up to 5.50 + with other intelligent operations (Auto-Save or Setback function) + SmoothDrive 2.0 technology optimizing part-load smooth operation leading to better and lower running cost!
- Thanks to airCloud Tap (installation & service support app), you can minimize the time and cost for VRF configuration and regular maintenance

### WELL-BEING

- Right temperature & right feeling of airflow with multiple comfort features based on reliable occupant sensing and other integrated intelligent features.



School



### FLEBILITY

- Quicker installation can be achieved by 1. large-capacity yet smaller-footprint and lighter weigh outdoor units 2. both H-LINK & airCloud Tap features can help installers work quickly and efficiently within the limited time (like off-school time on weekends)
- Several types of IDUs to meet any type of application or room shapes for easier installation and better cost-performance balance.

### SUSTAINABLE GROWTH

- Help decrease the running cost thank to 1. Highest EER max up to 5.50 & 2. specially optimized operation for part-load operation by SmoothDrive 2.0 technology
- "Individual controller LOCK mode" for safer operation which prevents inappropriate operation by young students.
- Smart monitoring and control: to cut the wasteful energy consumption by each checking status of units from airCloud Pro anywhere anytime

### WELL-BEING

- Right purity: Integrate ventilation solutions and enhanced filters to improve indoor air quality.
- Easy removal of air filters in each indoor unit for the quicker and regular cleaning to keep your air conditioner clean



Hospital



### FLEBILITY

- Quicker installation can be achieved by 1. large-capacity yet smaller-footprint and lighter weigh outdoor units 2. both H-LINK & airCloud Tap features can help installers work quickly and efficiently, so that installation work won't cause troubles to the patients
- Flexible combination available with AHU or Ventilation units integrated to VRF system to minimize your initial cost

### SUSTAINABLE GROWTH

- Highest EER max up to 5.50 & specially optimized operation for part-load operation thanks to SmoothDrive 2.0 technology
- Smart monitoring and control: to cut the wasteful energy consumption by each checking status of units from airCloud Pro anywhere anytime

### WELL-BEING

- Right temperature & right feeling of airflow with multiple comfort features based on reliable occupant sensing and other integrated intelligent features.

# Adapted to everyone's needs

## Features, advantages and benefits at a glance

This table sets out the features and benefits of the air365 MAX range with your needs in mind.



### For Architects

Those who design the building

#### EASY TO WORK WITH

Optimize your building by freeing more space from ODU occupied area for the greenery or solar-panel

#### DESIGN

- Large capacity yet smaller-footprint units (1.2m<sup>2</sup> for 28HP)
- Require fewer ODUs by IDU connection ratio up to 200%
- Move ODUs to indoor spaces for better building aesthetics
- One solution that works in all ambient conditions

#### INCREDIBLE ENERGY EFFICIENCY

Achieve the green building certification by our air365 Max latest cabinets

- Lowering direct environmental impact with air365 Max solution
- One of the world's most efficient VRF solutions: high EER/ COP up to EER5.50
- SmoothDrive 2.0 confirmed for 39% less energy-consumption at 33% part load operation
- Uses 10% less refrigerant in average
- Demand control operation available to achieve forcible entire power saving



### For System Designer (Contractor or Consultant)

Those who design the HVAC solution

#### EASY TO WORK WITH

Make your offering more attractive than ever from both initial cost and running cost perspective, by our Easy-to-Work solutions

#### DESIGN

- Design faster with airCloud Select
- Large capacity yet smaller-footprint units (1.2m<sup>2</sup> for 28HP)
- Require fewer ODUs by IDU connection ratio up to 200%
- Move ODUs to indoor spaces with EPS up to 80Pa
- One solution that works in all ambient conditions
- Max 200m piping length & max 110m height difference flexibility
- Widest choice of IDUs for any shape of rooms

#### INSTALL

- Less communication wiring with H-Link
- Less configuration time by airCloud Tap
- Easier & lower delivery cost by large capacity yet smaller-footprint cabinet

#### OPERATE

- Easy for building managers to operate, schedule and automate whole VRF system with airCloud Pro anytime & anywhere
- Easy operation for any end-users by multiple design award-winning remote controllers with user-friendly UX/UI

#### MAINTAIN

- Anti-corrosion & gecko-proof cabinet available as options
- Automatic reduction of the risk of failure by compressor rotation control
- Even in case of failure, emergency operation mode backs up
- Patented oil-return control technology leading to more reliable yet comfortable operation
- Quicker and easier maintenance work thanks to airCloud Tap

#### INCREDIBLE ENERGY EFFICIENCY

Meeting the top-priority requirement "energy efficiency" of your end user in both rated & part-load operation

- One of the world's most efficient VRF solutions: high EER/ COP up to EER5.50
- SmoothDrive 2.0 confirmed for 39% less energy-consumption at 33% part load operation
- Uses 10% less refrigerant in average



### For Installer

Those who install & service the solution

#### EASY TO WORK WITH

Significantly upgraded ease of installation & maintenance by our proprietary technology and solutions

#### DELIVER

- Easier delivery and unloading with reduced ODU footprint and forklift support point

#### INSTALL

- Less communication wiring with H-Link
- Easier & lower delivery cost by large capacity yet smaller-footprint cabinet
- Unit base holes for safer installation with equipments and piping works
- 4 directions with 9 options for piping connection
- Significantly easier and quicker configuration for both outdoor units & indoor units by airCloud tap of copy-paste setting features

#### COMMISSION

- Quicker and easier commissioning, by Service Checker, since it can download continuous operation data for the whole VRF system all at once and create a commissioning report easily

#### OPERATE

- Intuitive simplicity designed-in Centralized Controllers airCloud Pro for your easier and quicker operation in case of necessity.

#### MAINTAIN

- Significantly faster access to operational data by airCloud Tap without opening the front-cover cabinets



### For End Customer (Investor/Owner)

Those who pay for the system

#### SEAMLESS COMFORT

From small spaces to the largest buildings, your preferred living harmony are created

- SmoothDrive 2.0 to keep the constant indoor temperature
- Low-Noise operation available for less trouble to the neighborhood
- Smart Changeover for the fair indoor environment cooling and heating by 3 different voting system
- Smart Defrosting & Networked Smart Defrosting for better and constant indoor heating situation

#### INCREDIBLE ENERGY EFFICIENCY

Reward you with superior performance as well as significant energy and cost savings

- Lowering direct environmental impact with air365 Max solution
- One of the world's most efficient VRF solutions: high EER/ COP up to EER5.50
- SmoothDrive 2.0 confirmed for 39% less energy-consumption at 33% part load operation
- Uses 10% less refrigerant in average
- Demand control operation available to achieve forcible entire power saving

#### EASY TO WORK WITH

Less stress and less expense by our user-friendly controllers and applications

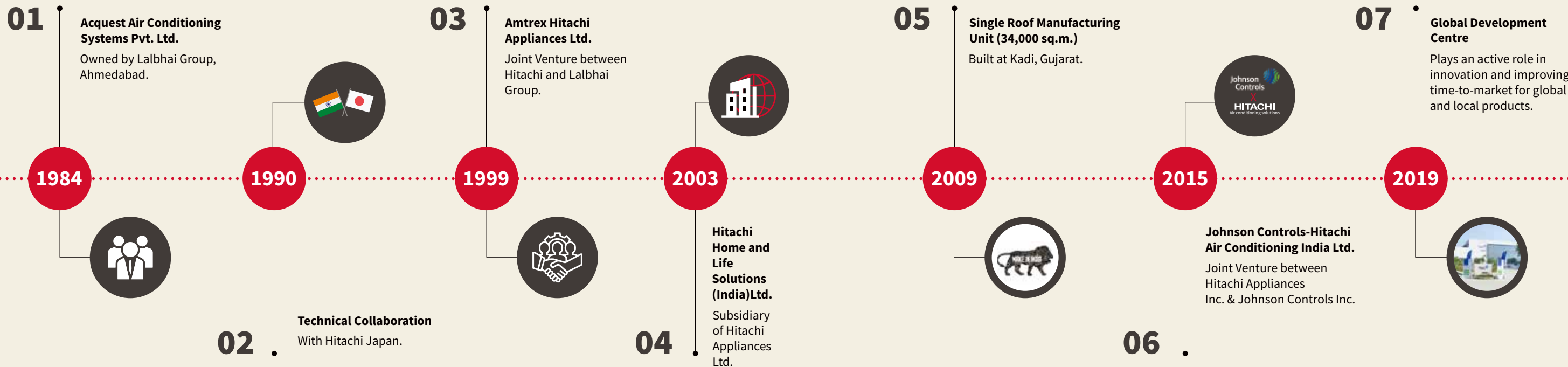
#### OPERATE

- Easy for building managers to operate, schedule and automate whole VRF system with airCloud Pro anytime & anywhere
- Easy operation for any end-users by multiple design award-winning remote controllers with user-friendly UX/UI

#### MAINTAIN

- Significantly faster access to operational data by airCloud Tap without opening the front-cover cabinets

# OUR MILESTONES



## State-of-the art facility at Kadi, Gujarat

### HIGHLIGHTS

- One of the Biggest Single Roof Facility of 34,000 sq.m.
- Lorem ipsum dolor sit amet, consedjvi

# OUTDOOR UNITS

|    |                                         |
|----|-----------------------------------------|
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## End-to-end solution

For HVAC professionals, architects & building owners looking for a modern HVAC solution that is cost efficient and adaptable, air365 Max is an end-to-end solution that's easy to work from design to installation, operation and maintenance, offering incredible energy efficiency and seamless comfort for users



# Technology

## SmoothDrive technology

Hitachi's direct capacity control technology utilizes precise temperature monitoring and control of scroll compressor frequency to reduce compressor on/off cycles and improve temperature stability under part-load conditions. Up to 39% more efficient under the part-load conditions that regulatory energy efficiency ratings do not account for.

## airCloud Tap + NFC technology

airCloud Tap app, designed for installers and service engineers enables 4X faster configuration of outdoor units and 6X faster data checking via a smartphone, and removes the need to open the outdoor unit cabinet. Simply 'tap' a smartphone on the outside of the unit, and configure everything inside the app.

## Gas-injection Scroll Compressor

With 10 to 140rps (by 0.1Hz step) driven by DC inverter motor, our gas injection Scroll Compressor extends compressor operating range and increases heating/cooling capacity, leading to a wider outdoor unit operating temperature range & better efficiency. Other proprietary technologies in our latest Scroll Compressor include an internal oil circulation structure and intermediate gas pressure structure, contributing to the best balance of performance and reliability.

## Oil-return technology

As well as reducing lubricating oil loss, this patented oil return control cycle consumes less energy and produces much less noise– resulting in higher efficiency and greater comfort for occupants

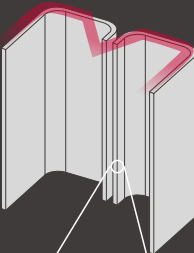
- Every hour, oil-return operation activates for just 60 seconds (cooling mode) / 120 seconds (heating mode)
- During oil return mode, indoor units can continue to operate normally

## Smart Defrost

For Heat Recovery and Heat Pump types:  
Defrosting frequency shortened by 2X for single ODU configurations  
Operate in up to -25C ambient  
Defrosts the ODU in cold temperatures while minimizing the resulting downtime of the indoor units  
Patented intelligent sensing technology detects when defrosting is required and instantly adjusts the exterior case temperature to eliminate ice and frost, so that it can reduce frequent and unnecessary defrosting operation.  
Defrosting frequency reduced by more than 50%, requiring a defrosting cycle as little as every 250mins

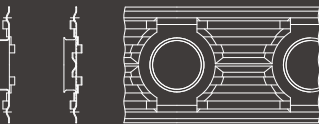
## Patented Sigma-shape with patented path structure

Σ shape!



Our proprietary sigma-shaped (Σ) heat exchanger has around 6000 pieces aluminum fins as thin as of 0.1mm and characterized with its complicated surface to expand heat-transfer area. Around 350 copper tubes with special inner structure, and a new 3-way path structure which expands the heat-transfer area and efficiency enormously.

Plate Fin



Tube



## Strong structure Resistant up to 60m/s (134mph)

Increased rigidity in the front and back of the frame reduces the possibility of damage from external impacts & supports reliable operation even under super windy weather up to 60m/s (134mph) which is enough strong to collapse the wooden houses.



# End-to-end solution



## 1 Best-in-class efficiency

Offers significant improvements in energy consumption thanks to the higher EER & SmoothDrive technology which helps to reduce running costs during part-load operation. This can lead to reduced CO<sub>2</sub> emissions for customers as well.

### 5 key claims

- ✓ All-new heat exchanger and gas injection scroll compressor enables best-in-class VRF energy efficiency up to EER 5.50
- ✓ **(Original)** SmoothDrive 2.0 confirmed for 39% less energy-consumption at 33% part load operation
- ✓ Uses 10% less refrigerant in average
- ✓ Demand Response Enabling Device (DRED) support through both remote controller & centralized controller
- ✓ Reduce energy consumption and carbon footprint by 47%

## 2 Easy to work with

A complete solution that saves time and money at every stage of your project, from Design to Maintenance. Our complete ecosystem of indoor & outdoor units, smart apps and hardware features work together as a complete solution.

### 6 key claims

- ✓ [Design] User fewer ODUs with single unit capacity up to 28HP and 200% IDU connection capacity
- ✓ [Deliver] Load up to 14% more AC capacity in a single vehicle
- ✓ [Install] **(Original)** Up to 4X faster configuration of units with airCloud Tap
- ✓ [Commission] Quicker & easier commissioning with Service Checker - get instant reports and visualize detailed operational data
- ✓ [Operate] Easy monitoring by airCloud Pro anytime anywhere
- ✓ [Maintain] **(Original)** Fast access to error data by using airCloud Tap

## 3 Seamless comfort

Seamless comfort for building occupants, anywhere, anytime. Solves common problems of HVAC solutions including unstable temperatures, cold or hot drafts, direct air, hot and cold rooms during season changes, and more.

### 4 key claims

- ✓ **(Original)** Constant indoor temperature even during part-load operation with SmoothDrive 2.0
- ✓ Neighborhood-friendly outdoor unit with 3dB(A) lower noise output in average by Night Shift Mode in average

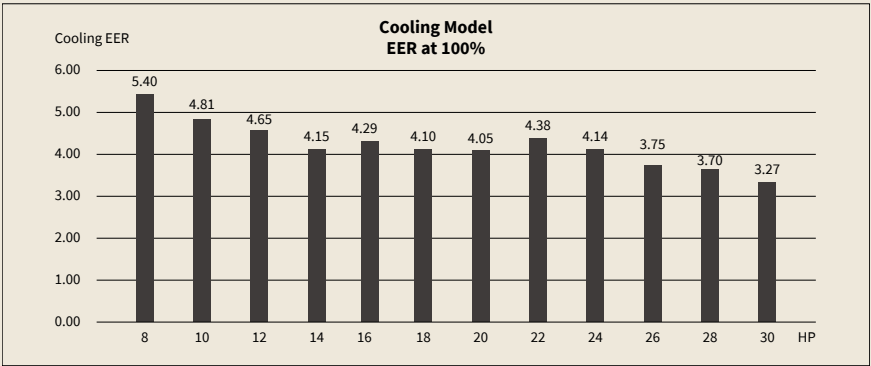
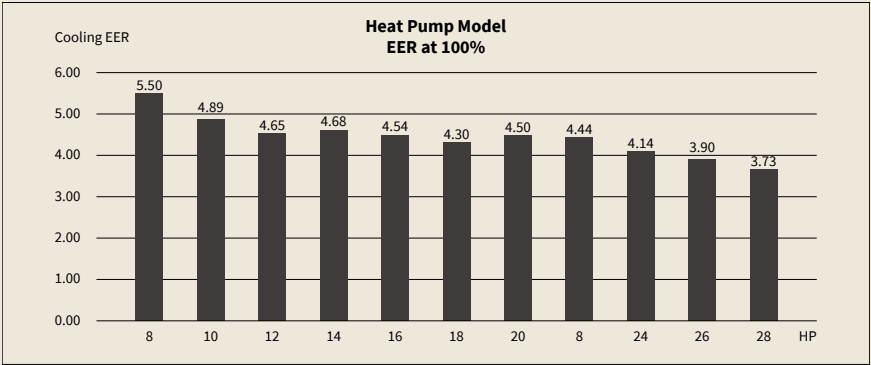
# Boost your energy efficiency

With air365 Max, discover how you can make significant improvements in your energy consumption fee.

## High efficiency ratio

- Best-in-class efficiency

All-new heat exchanger and gas injection scroll compressor enables best-in-class VRF energy efficiency  
By installing air365 Max, and you can realize significant energy savings.



NOTES:  
1. The graphs above show the EER of single units.  
2. The above values indicate the EER per outdoor unit when it is combined with specified indoor units.  
3. The specification of EER of each country is different according to the regulation. Please contact to the Sales person for more information.



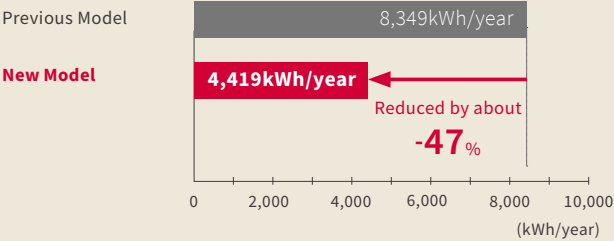
## Ideal for Renovation Projects

- Reduce energy consumption and carbon footprint by 47%\*

Our technology is improving every year.  
Replace outdated HVAC solutions and achieve a 50% reduction in energy consumption and carbon footprint\*

### Electricity consumption reduction

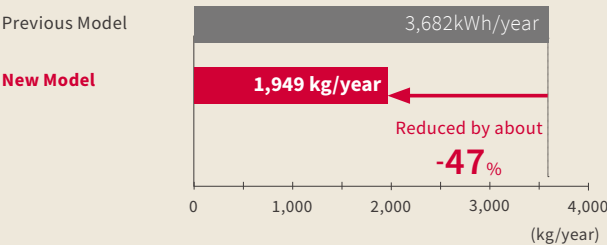
Comparison of (for a system equivalent to 10HP class (28.0kW))  
Between [RAS-FSN Hitachi inverter VRF of 15years ago]  
VS [air365 Max RAS-HNCC\*\*]



NOTE  
Condition:  
1. Both simulation of Seasonal power consumption & CO<sub>2</sub> emissions are a trial calculation value based on JIS B 8616: 2015 (Tokyo office).  
(cooling: Apr-19 to Nov-11)(Heating Dec-3 to Mar-15)  
(District: Tokyo) (Application: Office)  
(AC usage: 6days per week, 8am to 8pm)

### CO<sub>2</sub> emission reduction

CO<sub>2</sub> emissions  
(for a 10HP class (28.0kW) equivalent system)



2. The CO<sub>2</sub> emissions coefficient is 0.441 kg-CO<sub>2</sub>/kWh. Based on Electric Power Industry Council for a Low Carbon Society in FY20  
3. As reference in Japanese domestic model

## Less refrigerant required

- Uses 10% less refrigerant in average\*

Compared with our previous generation VRF product air365 Max uses 10% less refrigerant in average & 14.6% less in maximum, helping to reduce the environmental footprint and maintenance costs.

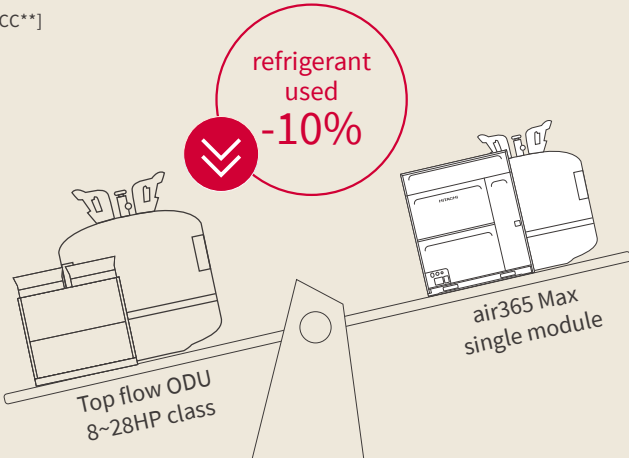
Comparison of (for a system equivalent to 16HP class (45.0kW))  
Between [RAS-FSNS previous model VRF of 5years ago] VS [air365 Max RAS-HNCC\*\*]

| System            | Previous top flow VRF | air365 MAX |
|-------------------|-----------------------|------------|
| Initial charge    | 9.9kg                 | 9.5kg      |
| Additional charge | 14.5kg                | 13.0kg     |
| Total             | 24.4kg                | 21.5kg     |

-12% refrigerant\* used!

\* Simulation condition; Comparison between Single 8~28HP class (tier 2) under 95% connection ratio

\*\* Condition:16HP class ODU (45.0kW) \*1  
3HP class IDU (8.0kW) \* 5  
Total piping length; 120m  
IDU connection ratio: 89%





## SmoothDrive™ 2.0 : Superior compressor control

### • Verified 39% less energy-consumption at part-load operation

Most of the time HVAC systems are under part-load because of ambient conditions, set temperature, occupancy and over-specification of the system. As organizations look to improve energy efficiency and reduce carbon footprint by mandating set temperatures within a reasonable range, part-load becomes even more important. Hitachi air365 Max utilizes direct capacity control which combines accurate temperature sensing with precise compressor control to balance load and capacity with less fluctuation. And its effect on energy consumption is verified formally at 3rd party testing facility.

<Testing Condition>  
(at Cooling Operation, Load Factor: Approx. 33%)  
Without SmoothDrive; average power consumption 2.46kW  
With SmoothDrive; average power consumption 1.49kW

---

VRF ODU: (RAS-AP280DG3 = RAS-10FSNS)  
VRF IDU: 4-way cassette indoor units (RCI-AP140K5 = RCI-5.0FSRP)  
Indoor Unit Inlet Temperature: 27°C (Dry Bulb) / 19°C (Wet Bulb)  
Ambient Temperature at Air Volume "High": 23°C (Dry Bulb)  
Piping Length between Indoor Unit and Outdoor Unit: 15m  
Testing Location: Environment Testing Facility at Kansai Denryoku (power supply company)

### VRF air conditioners in buildings experience all kinds of changes during the day...

People coming and going...

Changes in outdoor weather conditions...

Variations in temperature preferences...



### This causes VRF systems to operate at partial load

More than 70% of the time during a year, a VRF System will be running under part-load conditions, with most systems operating at 50% or less of their capacity\*1.

These unpredictable part-load conditions cause real-world performance to deviate significantly from official published energy efficiency data.

It's a key reason why your customer may not fully experience all the energy savings they expected from new equipment.

### The simplicity of SmoothDrive

We believe the key to energy efficiency at part load is how generating capacity is controlled. In a normal VRF system this capacity control can be complex, combining both control of refrigerant evaporation temperatures and compressor operation. But at Hitachi Cooling & Heating we've developed a more simple approach called SmoothDrive.

### Why SmoothDrive ?

Part-load conditions cause real-world performance to deviate significantly from official published energy efficiency data. Which is why Hitachi's patented direct capacity control technology delivers...



#### real-world energy efficiency

Improved energy efficiency under part-load operation, which regulatory energy efficiency ratings do not account for.



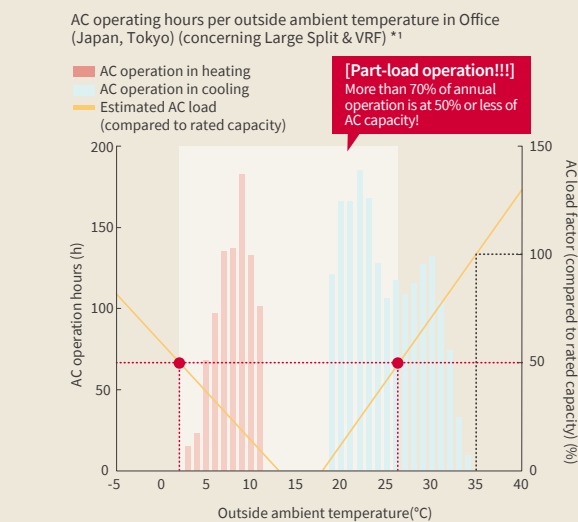
#### temperature stability

With continuous monitoring and adjustment of the capacity based on compressor speed, indoor temperatures can be maintained more accurately.



#### smoother compressor operation

Compressor rotation frequency is more precise and stable. On/Off cycles are reduced, while peaks and drops are diminished, reducing wear on the compressor.



\*1. JIS B 8616:2015 (Japanese packaged air conditioners standard) to arrange the performance test for the system.



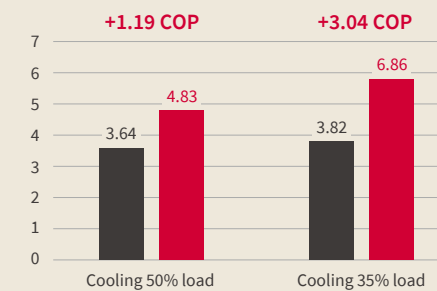
Please refer to the leaflet for details



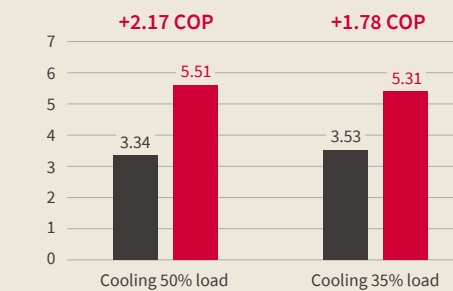
### Real-world energy efficiency\*\*

Improved energy efficiency under part-load operation, which regulatory energy efficiency ratings do not account for

#### COP in Cooling mode



#### COP in Heating mode



■ without SmoothDrive  
■ with SmoothDrive

\* Averaged power/load are calculated for 5 hours from start

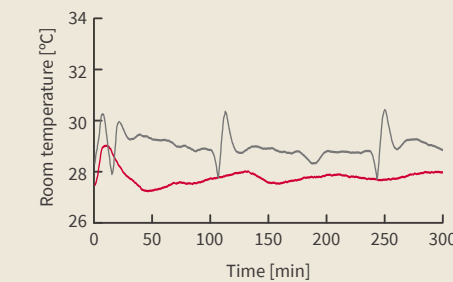
\* COP = Averaged load / Averaged power



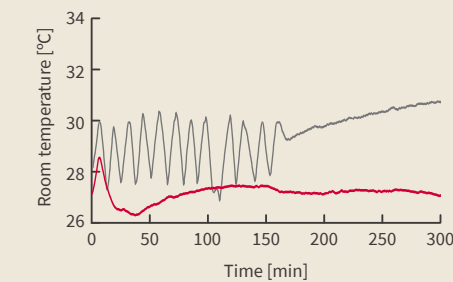
### Temperature stability\*\*

With continuous monitoring and adjustment of the capacity based on compressor speed, indoor temperatures can be maintained more accurately

#### Cooling 50% Load



#### Cooling 35% Load



Set temp: 27°C  
Initial IDU temp: 27°C / 19°C

— Air Inlet temperature of IDUs (without SmoothDrive)  
— Air Inlet temperature of IDUs (with SmoothDrive)

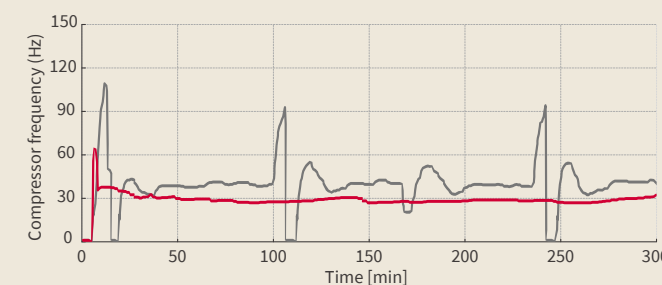


### Smoother compressor operation\*\*

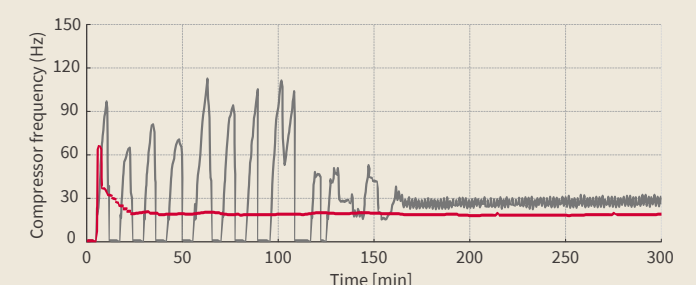
Compressor rotation frequency is more precise and stable.

On/Off cycles are reduced, while peaks and drops are diminished, reducing wear on the compressor.

#### Cooling 50% Load



#### Cooling 35% Load



\*\* Outdoor Unit; 10HP class. Indoor Unit: 5HP Class 4-way cassette unit \* 2 pcs. In our own company's fixed-load testing facility (Dimension of the room per one indoor unit: 5.6m×2.5m×3.1m). Outdoor temp (DB / WB): 29°C / 19°C. Load per room (Sensible / Latent): 4.9kW / 0.0kW. Set temperature: 27°C. Initial Indoor unit temperature (DB / WB): 27°C / 19°C. Indoor unit fan airflow rate: Hi-mode.

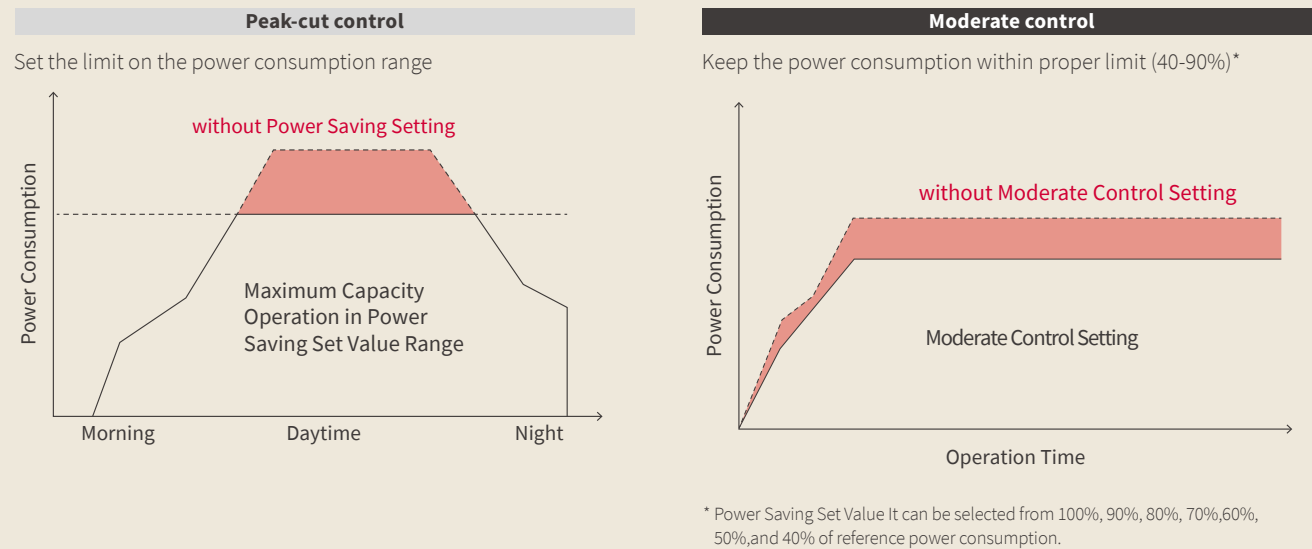
## Demand control

- Manage your electricity during peak periods
- Peak-cut Control
- Moderate Control

A Demand Response Enabling Device (DRED) air conditioner allows your electricity provider to control the system at various pre-programmed levels, to manage your demand on the power grid during peak periods.

The aim is to reduce overall power consumption to the supply network at critical peak load times.

This feature can be enabled and disabled on an individual or centralized Hitachi controller. No additional equipment is required.

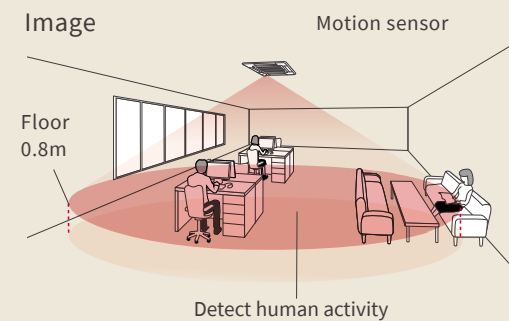


## Better energy saving operation (Motion Sensor Control)

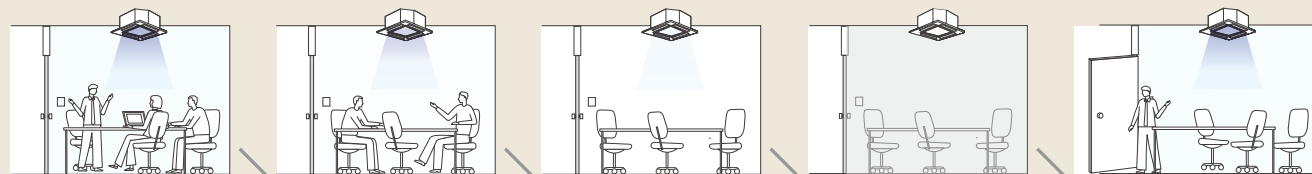
- Compatible internal units (IDUs) can automatically detect occupancy and automate operation accordingly

The presence sensor makes it possible to control operation based on the persons present in the climate controlled space.

If the VRF unit is installed in a room in which the presence of persons is not constant, the sensor makes it possible to automatically control operation in such a way as to reduce consumption and achieve energy savings.



### Automatically saves ability by detecting the amount of human activity



#### Standard operation

In a room with a lot of people moving, standard operation

#### Save Power

Moderate air conditioning when there is little movement of people

#### Save more

When there are no people for a certain period of time, the air conditioning is even more modest

#### Forgetting to turn off

If the absence continues for more than 30 minutes, the operation can be stopped by setting

#### Resume

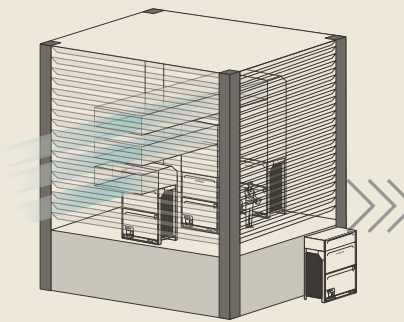
Resume standard operation when people return

Thanks to 200% IDU connection ratio

In case that IDU total capacity are 52HP

Before

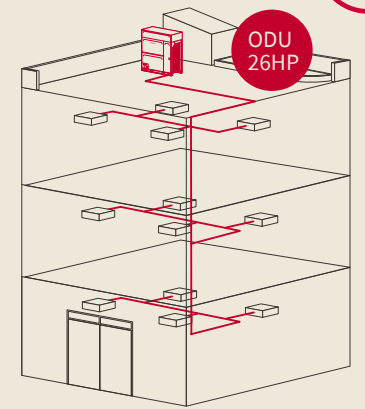
2 ODU Operate 12 IDU  
(The least ODU you need to purchase was 40HP unit (HNCQ L-size\*2))



IDU 52HP = ODU 40HP\*130%

**1 ODU Operate 12 IDU**

(The least ODU you need to purchase is 26HP (NEW cabinet L-size\*1))



IDU 52HP = ODU 26HP\*200%

\* above 130% contact sales team or Channel partner/Dealer

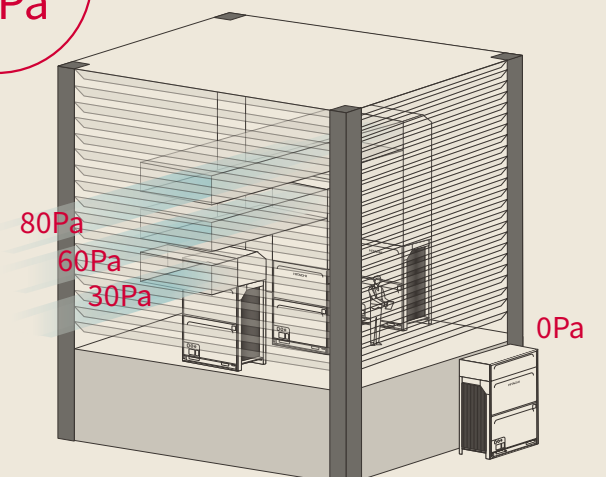
## High external static pressure (ESP)

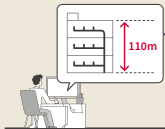
- Total 4 steps of ESP
- Maximum up to 80Pa

The High External Static Pressure (ESP) setting for air365 Max units enables them to be located inside ventilated machine rooms, rather than just outdoors. This may reduce installation costs as well as reducing impact on the external facade of the building.



**UP TO 80Pa**





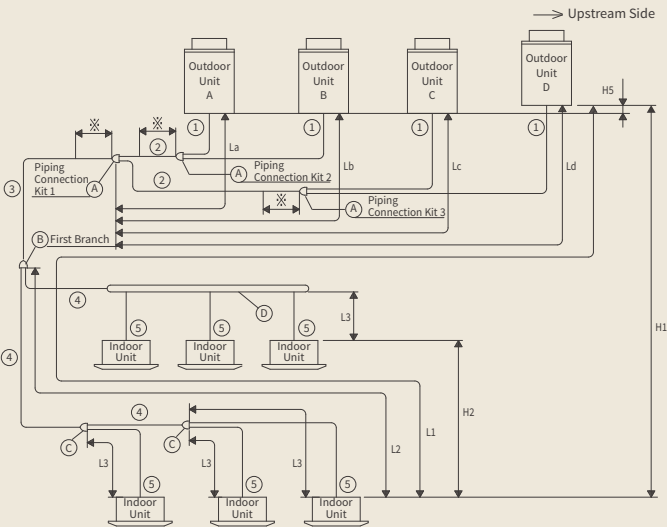
# System Design

## More flexible piping configuration

- Maximum piping length up to 200m
- Maximum height difference up to 110m

Longer pipe runs and greater height differences enable more flexibility for use in retrofit or renovation projects  
Supports installation in high-rise buildings  
Depending on building design, enables location of all units on the rooftop for faster installation and easier maintenance  
Enables more discrete placement further away from visual and noise sensitive spaces

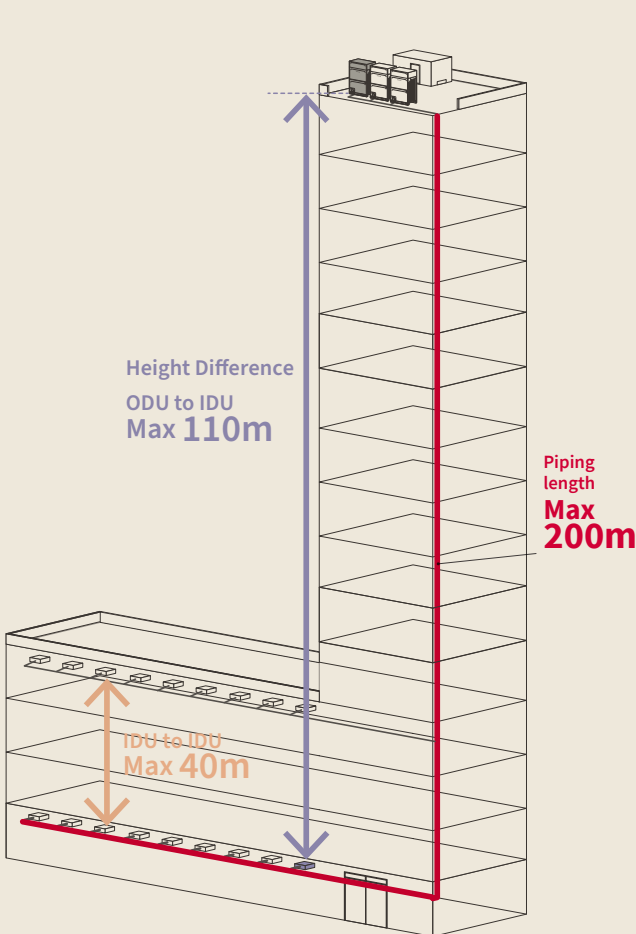
< For 4 Units Combination >



※ Keep the straight line distance of 500mm or more after the piping connection kit.

|                           |                                                            |                   |            | Mark           |
|---------------------------|------------------------------------------------------------|-------------------|------------|----------------|
| Total piping length       |                                                            | m                 | 1,000      | -              |
| Maximum piping length     | Between ODU and IDU                                        | Actual            | m 200      | L1             |
|                           |                                                            | Equivalent        | m 225      |                |
|                           | Between "Piping connection kit" and each ODU single module |                   | m 25       | La, Lb, Lc, Ld |
|                           | Between "1st branch Multi Kit" and farthest IDU            |                   | m 100      |                |
| Maximum height difference | Between "Multi Kit" and each connected IDU                 |                   | m 40       | L3             |
|                           | Between each single module of 1 ODU                        |                   | m 2        |                |
|                           | Between ODU and IDUs                                       | ODU above IDU (*) | m 110 (50) | H1             |
|                           |                                                            | IDU above ODU (*) | m 110 (40) |                |
|                           |                                                            | Between IDUs      | m 40       | H2             |

Note: Some restrictions would be applied when the height difference between outdoor units and indoor units are [50m or more in case outdoor unit is higher] and [40m or more in case outdoor unit is lower]. Please refer to technical manual for details.



## Widest choice of indoor units

- Total 13 types
- Design award winning design

With more than 100 different indoor units to choose, air365 Max supports a wide range of building layouts and interior design requirements  
Includes units that can be hidden to suit indoor aesthetics  
Exposed units that minimize installation costs  
Best balance of cost and aesthetics can be supported by the unique Silent-Iconic 4-way cassette panel

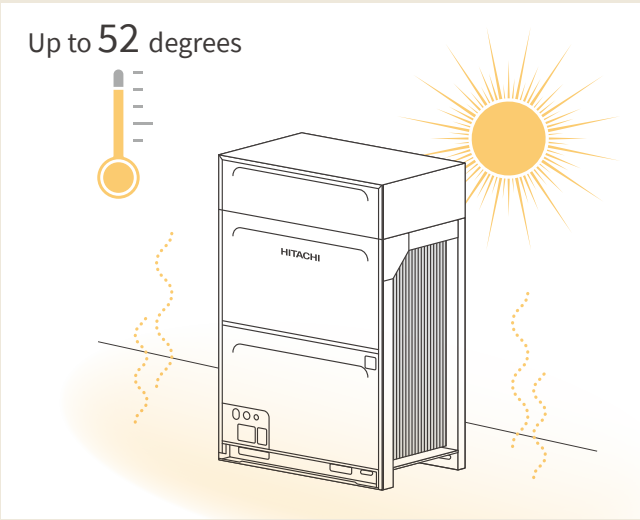


## Anytime & Anywhere

- Cooling in 52 ~ -10°C
- Heating in 16 ~ -25°C
- Normal operation even under up to 60m/s
- JRA anti-corrosion treatment available

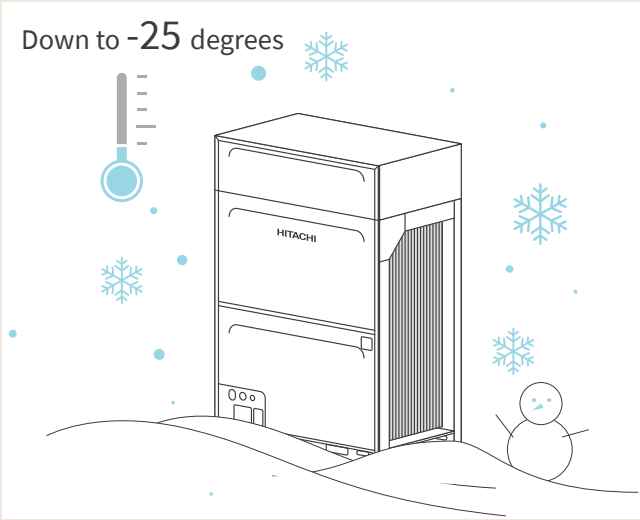
Because we live in a diverse and changeable world, our air365 Max units are designed to operate faultlessly in any climates and weather situation

### Summer temperature



Cooling operation from up to 52°C ambient temperature

### Winter temperature



Heating operation from as low as -25°C ambient temperature

### Anti-Corrosion Cabinet + Gecko-proof treatment

If your project is located in an extreme weather environment, consider applying an anti-corrosion treatment to your air365 Max outdoor units. Treatment can be arranged in factory based on the JRA9002 standard, with multiple layers on every component of the unit. With this treatment, the life expectancy in marine salty-air environments can be doubled. It is also effective against lizards/geckos.



\*Considered JRA9002: Criteria and Testing of Corrosion-proof for Refrigeration and Air Conditioning Equipment against Salty Air  
\*Please consult Hitachi distributors for more details  
\*Both "Anti-corrosive treatment" and "Heavy anti-corrosive treatment" are by custom order

### Corrosion Resistance

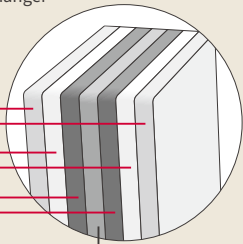
Life-expectancy comparison In salty-air-location

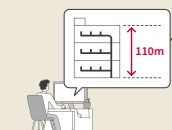
| Standard                                    |  | 2 times longer! |
|---------------------------------------------|--|-----------------|
| Anti-corrosive Treatment Custom Order       |  | 2 times longer! |
| Heavy anti-corrosive Treatment Custom Order |  |                 |

Corrosion-resistance improved Heat Exchanger

3 Coating Layers

- Hydrophilic Resin Film
- Corrosion-Resistance Resin Film
- Phosphoric Acid Chromate Treatment
- Aluminum Fin





## System Design

### airCloud Select

- “airCloud Select” is the new software created by Hitachi to help you quickly finish the unit selection for your VRF design project.

- Enjoy a super intuitive and modern interface
- Select the suitable VRF equipment for each project
- Generate automatic report for your customers

airCloud Select is available upon request. Availability varies per country. For more information, please contact your Hitachi Cooling & Heating representative or visit [www.hitachi-aircon.com](http://www.hitachi-aircon.com)

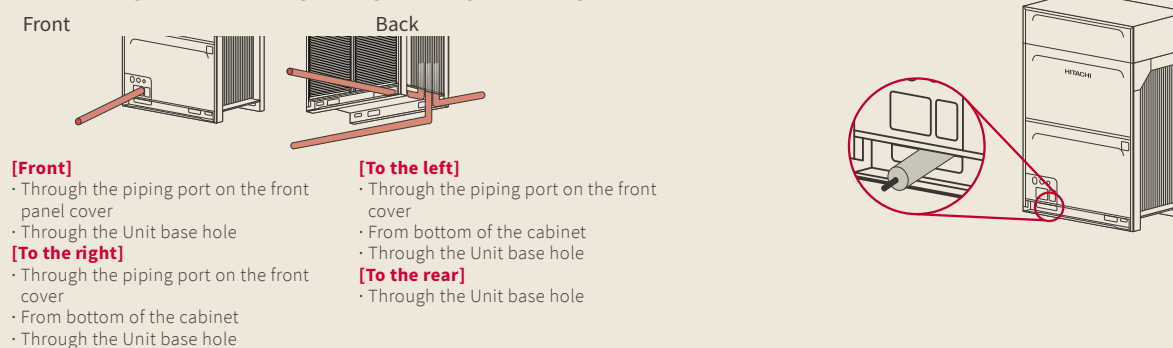


reddot winner 2022  
interface design

## Choice of piping direction

- 4 directions, 9 options

To make the installation as easy as possible, air365 Max unit can be piped from the front and base of the units via 9 different piping options. Bottom piping connection is large enough for refrigerant piping with standard insulation.

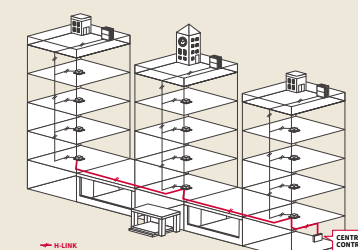


## H-LINK: flexible route of communication wiring

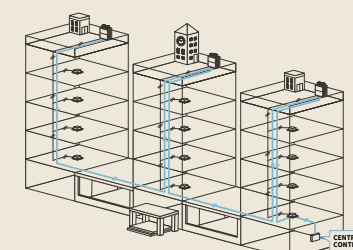
- Faster wiring with H-LINK

Hitachi H-LINK is a powerful, proprietary communication system that lets you control multiple outdoor and indoor units from one control point. For installers and service engineers, H-LINK simplifies the whole building wiring works by enabling units to 'daisy chain' together - making wiring connections from the closest available unit, regardless of the type. This can reduce installation time and costs.

### H-LINK



### Company A



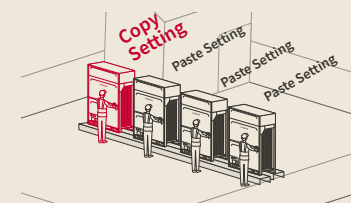
- ODU configuration: 4X faster
- IDU/controller configuration: 2X faster

Faster configuration using our patented airCloud Tap mobile app and NFC (Near-field communication) technology embedded in the outdoor unit and individual controllers. All settings are available with convenient descriptions inside the phone app. Operators can 'copy and paste' settings for one ODU (or IDU via individual controller) to multiple units using their phone. Ideal for hotels, classrooms, businesses with multiple meeting rooms or large buildings with multiple VRF outdoor units installed.

Download  
airCloud Tap!

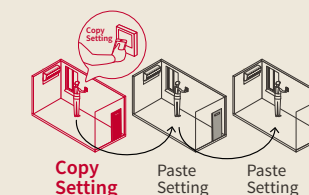


### 76% time reduction (ODU configuration)



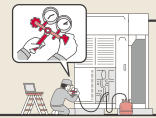
- 1) Conventional way to open and close the cover and manipulate dip/power switch: >>> takes 40min 40sec
  - 2) By using airCloud Tap without opening the cabinets: takes 9min 40 sec [Simulation scenario]
- total 4 ODUs initial setting
  - total 5 items setup; ODU number, Refrigerant cycle number, Higher ESP setting, Power Supply setting, and Compressor manual-off setting.

### 53% time reduction (IDU + CTRL configuration)



- 1) Conventional way: takes 103min 16sec
  - 2) By using airCloud Tap: takes 47min 40 sec [Simulation scenario]
- Total 20 controller setting
  - Total 7 items of setup: Room name, Time, Language, Temperature unit, Backlight of the screen, Operation schedule from Monday to Friday 08:30~18:30 28°C, Upper and lower limit of setting temperature for both cooling and heating





## Commission

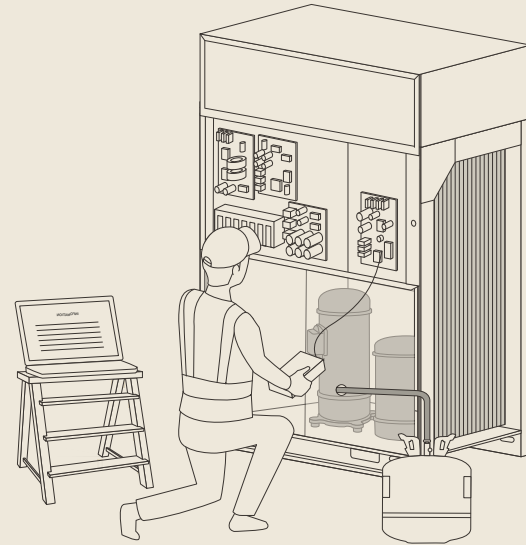
### Service Checker

#### • Quicker & easier commissioning

Service Checker is a dedicated service device for HVAC technicians. It can connect to the ODU PCB to download continuous operation data for the whole VRF system and create a commissioning report easily.

#### Key features

- Display and storage of all operation data
- Graphical visualization of operation data
- Rapid report creation
- Access to all unit settings/configuration



## Operation

### Monitoring app **airCloud** Pro

- Control is in your hands. 24/7 control at your fingertips on smartphone, tablet, or PC.



**For stand-alone and multi-site applications.**





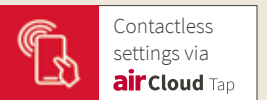
✓ **Intuitive simplicity**

airCloud Pro is designed to make your job easier. An intuitive app that anyone can use, airCloud Pro makes managing your VRF systems easier than ever before.

✓ **Control from anywhere**

Enjoy the freedom of remote access from your smartphone, tablet or laptop. airCloud Pro allows you to remotely control your VRF system(s) from a single app, saving you travel time.

### Individual controllers **PC-ARFG1 / PC-ARC**



- A new generation of room controllers with User friendly UX/UI

#### ADVANCED-COLOR CONTROLLER (PC-ARFG1-\*)



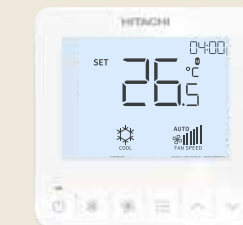
reddot winner 2021



#### Complete controls in a rich interface

- Colored screen displaying visual charts and descriptive texts
  - Access to all existing Hitachi VRF indoor unit features including user features settings, installation & maintenance features settings.
  - Energy consumption monitoring
  - Ideal for indoor units with motion sensors, cassettes with elevating grilles
  - Multiple languages available
- \*Except Sleep Mode timer

#### ECO-COMPACT CONTROLLER (PC-ARC-\*)



#### Value without compromise

- Segment screen displaying pictograms
- Essential controls in a glimpse
- On/Off weekly schedule
- Some extra advanced features such as GentleCool, Power-Saving Peak-Cut mode and Sleep Mode Timer
- Embedded IR receiver, ideal for ducted units



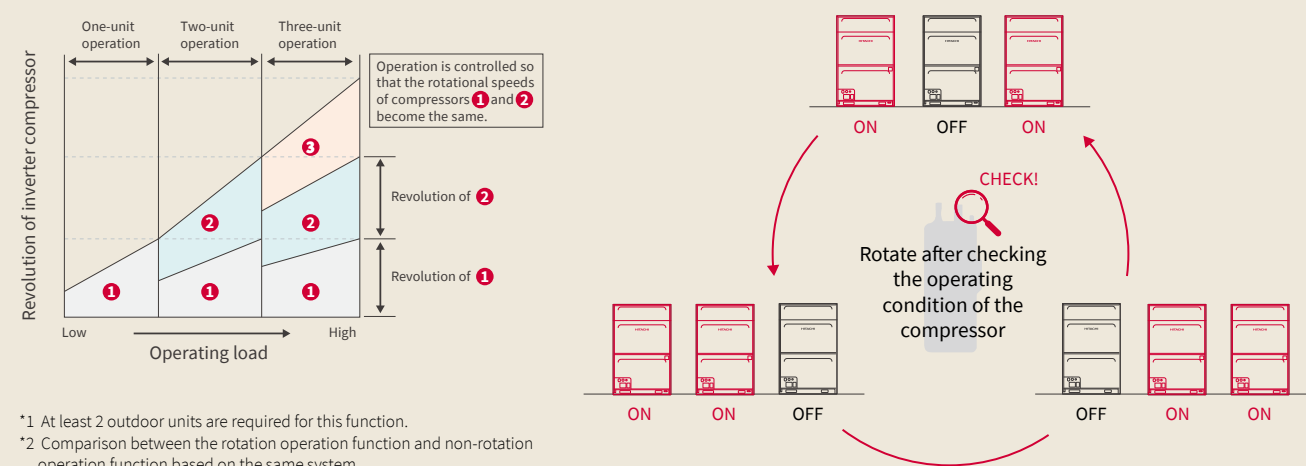
## Maintenance

### Compressor rotation control

- Extend ODU lifecycle

manages equal loading on multi-compressor configurations, ensuring equal lifespan of each compressor in the system

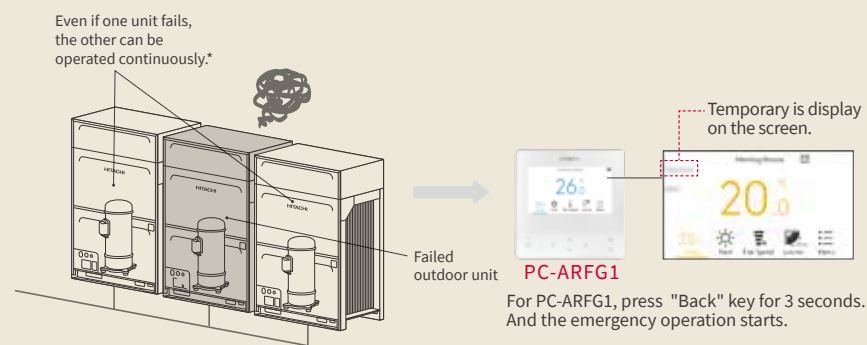
#### Compressor rotation frequency control (example)



### Emergency operation mode

- Continue HVAC operation in the event of a unit failure

In multi-unit installations, the Backup Operation Function prevents the system from coming to a complete stop if an outdoor unit failure occurs. If one outdoor unit should fail, the system can continue to operate using the remaining outdoor units. Emergency operation can be performed up to 8 hours after unit stoppage.



\* Emergency operation cannot be performed within 8 hours after unit stoppage.

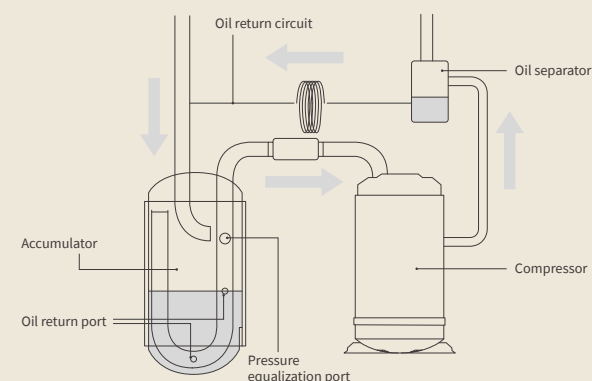


### Oil-return control

- Patented oil control for lower noise and higher energy efficiency

As well as reducing lubricating oil loss, this patented oil return control cycle consumes less energy and produces much less noise—resulting in higher efficiency and greater comfort for occupants

- Every hour, oil-return operation activates for just 60 seconds (cooling mode) / 120 seconds (heating mode)
- During oil return mode, indoor units can continue to operate normally



### airCloud Tap for faster maintenance

- 6X faster access to unit operational data\*
- 80% time reduction (ODU data check)

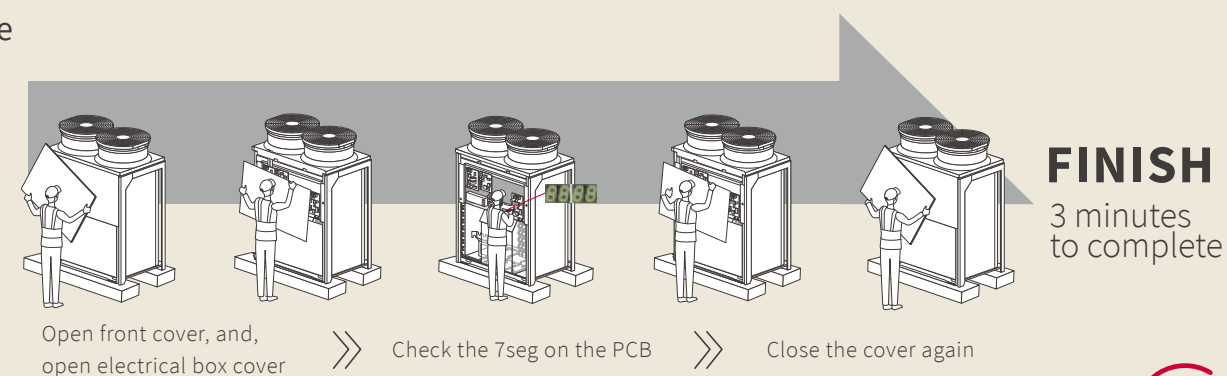
Previously, a maintenance engineer would need to open both the front panel of the cabinet and electricity box panel, then check error codes on the PCB.

Now with the airCloud Tap app, an engineer can simply 'tap' the outdoor units with their smartphone to access a full range of configuration settings and download operational data if required for basic troubleshooting.

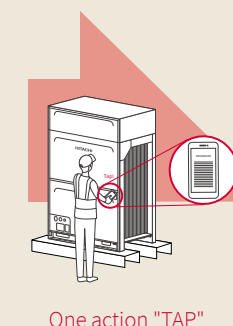
No need to open the panel to check simple data anymore!!!

The technology is also embedded in individual controllers enabling access to indoor unit settings.

#### Before



Using the airCloud Tap, operate the app, touch the ODU, and obtain the data >>> total 30sec



FINISH  
30 seconds to complete

Note.  
Test simulation scenario: Check the alarm cause  
[Previously] open up the cabinet panel, open the electricity box cabinet panel, check the 7segment of the PCB, then, close the two cabinet panels.  
>>> minimum takes 3min  
[Now] just activate the **airCloud Tap** application, and, operate the screen, and TAP the outdoor unit and obtain the data  
>>> takes 30sec!

NEW

### Powerful support app for your quick configuration & maintenance



Available on the  
App Store

ANDROID APP ON  
Google Play

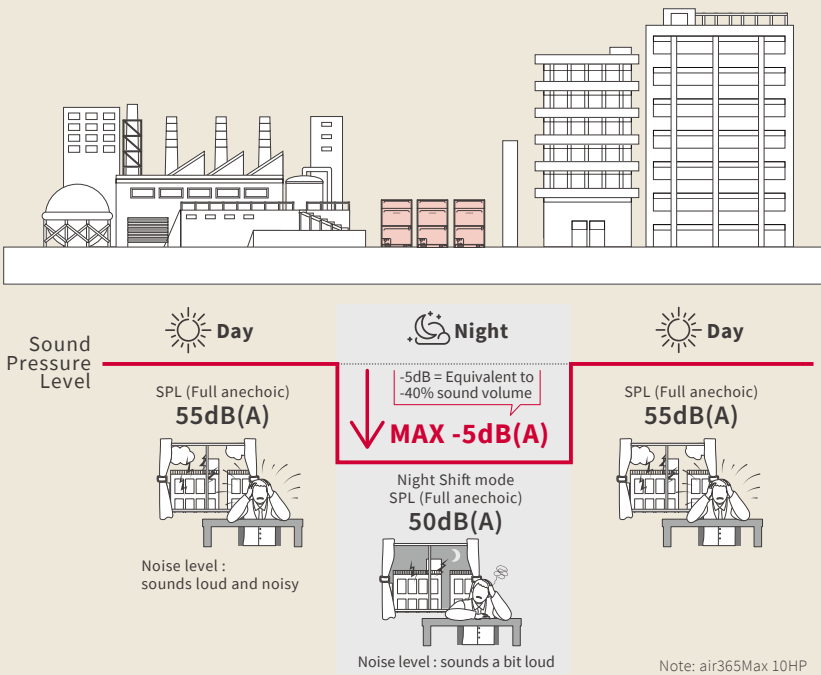


# Low Noise Operation

- Neighborhood-friendly outdoor unit with 3dB(A) lower noise output\* in average

Balance is the key to harmony, so air365 Max incorporates features to ensure a more peaceful environment, both indoors and out. Enjoy quiet comfort indoors with less disturbance to the outside environment. You can set this feature from your individual controller easily.

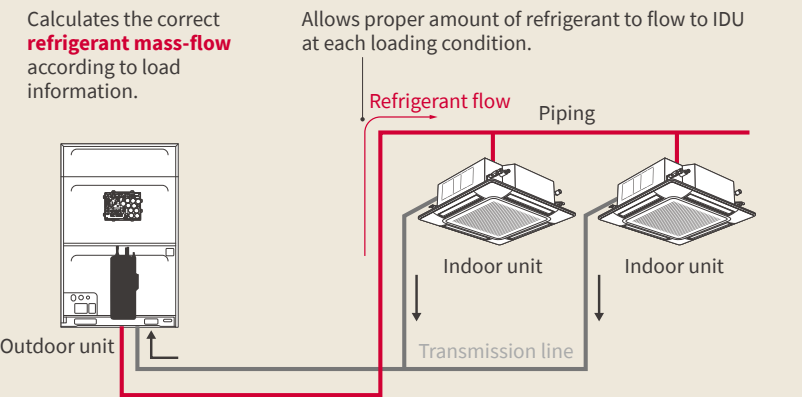
#Normal Sound Pressure (SPL) in Full Anechoic VS #Night-shift mode (SPL) in Full Anechoic  
Average -3.0dB(A)  
Reference: Architectural Institute of Japan "Sound insulation performance standards and design guidelines for buildings"



## DIRECT capacity control SmoothDrive™ 2.0

- Constant indoor temperature even during part-load operation

With continuous monitoring and adjustment of the capacity based on compressor speed, indoor temperatures can be maintained more accurately.



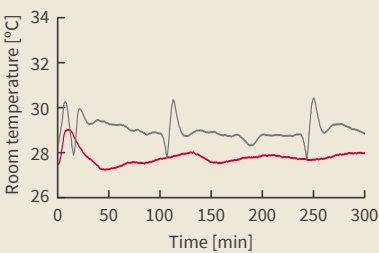
- SmoothDrive helps the scroll compressor to run continuously and smoothly even at part-load condition.
- Our original load-speculation technology helps reduce energy loss caused by scroll compressor switching on/off.
- Consequently, constant room temperature & energy savings can be achieved.



### 50% Load

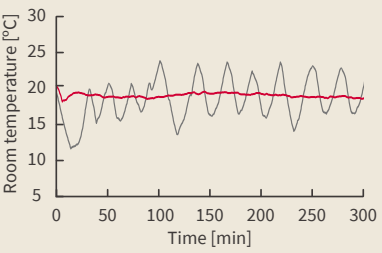
#### Cooling Mode

Set temp: 27°C  
Initial IDU temp: 27°C / 19°C



#### Heating Mode

Set temp: 20°C  
Initial IDU temp: 20°C / 14°C



— Air Inlet temperature of IDUs (without SmoothDrive)  
— Air Inlet temperature of IDUs (with SmoothDrive)

\* Outdoor Unit: 10HP class. Indoor Unit: 5HP Class 4-way cassette unit \* 2 pcs. In our own company's fixed-load testing facility(Dimension of the room per one indoor unit :5.6m×2.5m×3.1m). Outdoor temp (DB / WB): 29°C / 19°C. Load per room (Sensible / Latent): 4.9kW / 0.0kW. Set temperature: 27°C. Initial Indoor unit temperature (DB / WB) : 27°C / 19°C. Indoor unit fan airflow rate: Hi-mode.



IAQ matter (optional accessory)

ViroSense S filter\*

Our standard VRF filter has been upgraded to ion technology

Contains a silver ion that is released in the presence of moisture, binding to cellular enzymes of microbes and inhibiting enzyme activity of the cell wall, membrane, and nucleic acids.  
Anti-virus (>99% inhibition) / Anti-bacteria (>99% inhibition) / Anti-mold (100% growth stop)

Standard-equipped filter  
ViroSense S filter



BENEFITS

ANTI-VIRUS

over 99% Inhibition

ANTI-BACTERIA

over 99% Inhibition

ANTI-MOLD

100% growth stop

\*applicable for HAPQ 4 Way cassette IDU if panel model P-AP160NAE2

AQtiv-Ion Kit\*

AQtiv-Ion Kit for Ducted units

- Easily installed in a VRF ducted indoor unit
  - A low-maintenance non-intrusive way of purifying air without installing separate purification units
  - Generates negative ions and emits through AC airflow, binding to pollutants sending them to the floor
  - Plug & play: convert your ducted IDU into an air-purifying IDU
- More than 99.9% effective on SARS-CoV-2 virus
  - Up to 96.85% capturing of Influenza virus
  - Up to 74.90% removal of odors (formaldehyde)
  - Minimum impact on energy consumption & noise compared to external air purifier
  - Electrical power consumption: max 3W

Optional accessory filter  
AQtiv-Ion Kit



BENEFITS

SARS-CoV-2

**-99.9%**  
(Inhibition rate)

Escherichia coli

**-96.64%**  
(Inhibition rate)

Influenza virus

**-96.85%**  
(Removal rate)

Staphylococcus aureus

**-93.88%**  
(Inhibition rate)

PM2.5

**-94.46%**  
(Removal rate)

Formaldehyde

**-74.90%**  
(Removal rate)

Ammonia

**-73.20%**  
(Removal rate)

\* Applicable for HAPQ Ducted IDU only

Smart cool/heat changeover

Optimized comfort for all users during season changes

With Heat Pump type system, you can control how the system decides to switch between heating and cooling modes.

- Based on how many areas require cooling vs heating (majority voting)
- Based on total gap between set and ambient temperature across all rooms
- Based on prioritized rooms

| Previously                                          | Cooling / heating smart switching function                                  |                                                                       |                                                              |
|-----------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------|
| First push priority                                 | 1 Majority mode                                                             | 2 Larger gap mode                                                     | 3 Priority unit mode                                         |
| Adopt the mode of the first demand                  | Adopted operation mode with a large number of units for cooling and heating | Operation mode with a large sum of temperature differences is adopted | Adoption of priority indoor unit operation mode              |
|                                                     |                                                                             |                                                                       |                                                              |
| Cooling mode is adopted. Ignored except first push. | Cooling mode 1 unit < Heating mode 2 units<br><b>adopted</b>                | Cooling mode Δ4°C < Heating mode Δ2°C<br><b>adopted</b>               | Priority indoor unit requests cooling mode<br><b>adopted</b> |

Example of 3 modes

**1 Majority mode**

Under the conditions  
Request for cooling mode: 2 units  
Request for heating mode: 6 units

Demand

Result  
Adopted Heating mode

**2 Larger gap mode**

Under the conditions  
Cooling demand: temp. differences is total Δ8°C  
Heating demand: temp. differences is total Δ5°C

Demand

Result  
Adopted Cooling mode

**3 Priority unit mode**

Under the conditions  
Priority indoor unit requests cooling mode

Demand

Result  
Adopted Cooling mode

## Outdoor unit lineup overview

### LINE UP HP Class



8 HP - 12 HP Class

14 HP - 18 HP Class

20 HP - 28 HP Class

Single module  
up to 28HP class!

#### Specification Notes

- (Note 1) The cooling and heating performances are the values when combined with our specified indoor units.  
(Cooling: 27°C DB/19°C WB indoor side, 35°C DB outdoor side) (Heating: 20°C DB indoor side, 7°C DB/6°C WB outdoor side) Piping Length: 7.5 Meters \* Piping Lift: 0 Meter
- (Note 2) The electric characteristics show values of single outdoor unit.
- (Note 3) The operating sound is based on the following conditions: 1 Meter from the unit service cover surface, and 1.5 Meters from floor level. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
- (Note 4) The dimensions show values when a space between outdoor units is 20 mm.
- (Note 5) In case of setting low ambient temperature at cooling operation, the minimum capacity of connectable indoor unit should be 2.5HP.
- (Note 6) When 0.6HP indoor unit is combined, the total capacity of combined indoor units should be not over 150% against the outdoor unit capacity.
- (Note 7) Refrigerant piping has some installation limitation in specific condition. Please refer to technical manual for more details.
- (Note 8) When connection ratio of outdoor unit and indoor unit is over 150%, additional setting is required. Air volume of indoor unit is restricted under same of condition. Please refer to technical manual for more details.
- (Note 9) Outside temperature (-10°C) is for special application requiring optional accessory (snow protection hood). The number <=> shows Interval Operation Range. Please refer to technical manual for more details.
- (Note 10) It is recommended to follow "Recommended IDU number" to avoid the cold draft during the heating operation. Please refer to technical manual for more details.
- (Note 11) Some restrictions would be applied when the height difference between outdoor units and indoor units is more than 50m; in case of ODU above IDU; or 40m; in case of IDU above ODU. Please refer to technical manual for more details.



# Specifications Heat Pump

| Specifications<br>Heat Pump      |                                                                   |                     | S                                                                                 |                    |                    | M                                                                                   |                    |                    | L                                                                                   |                    |                    |                    |                    |                    |
|----------------------------------|-------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------|--------------------|--------------------|-------------------------------------------------------------------------------------|--------------------|--------------------|-------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                  |                                                                   |                     |  |                    |                    |  |                    |                    |  |                    |                    |                    |                    |                    |
| Capacity range                   |                                                                   | Unit                | 8HP class                                                                         | 10HP class         | 12HP class         | 14HP class                                                                          | 16HP class         | 18HP class         | 20HP class                                                                          | 22HP class         | 24HP class         | 26HP class         | 28HP class         |                    |
| Outdoor unit model               |                                                                   |                     | RAS-080HNCCLI                                                                     | RAS-100HNCCLI      | RAS-120HNCCLI      | RAS-140HNCCLI                                                                       | RAS-160HNCCLI      | RAS-180HNCCLI      | RAS-200HNCCLI                                                                       | RAS-220HNCCLI      | RAS-240HNCCLI      | RAS-260HNCCLI      | RAS-280HNCCLI      |                    |
| Combination of modules           |                                                                   |                     | -                                                                                 | -                  | -                  | -                                                                                   | -                  | -                  | -                                                                                   | -                  | -                  | -                  | -                  |                    |
| Power supply                     |                                                                   | -                   | 3N~ 380-415V 50Hz                                                                 | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz                                                                   | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz                                                                   | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz  |                    |
| Cooling capacity                 |                                                                   | kW                  | 22.4                                                                              | 28.0               | 33.5               | 40.0                                                                                | 45.0               | 50.4               | 56.0                                                                                | 61.5               | 67.0               | 73.0               | 77.5               |                    |
| Heating capacity                 |                                                                   | kW                  | 25.0                                                                              | 31.5               | 37.5               | 45.0                                                                                | 50.0               | 56.0               | 63.0                                                                                | 69.0               | 77.5               | 81.5               | 86.0               |                    |
| Outer dimensions (W x D x H)     |                                                                   | mm                  | 975×775×1805                                                                      | 975×775×1805       | 975×775×1805       | 1235×775×1805                                                                       | 1235×775×1805      | 1235×775×1805      | 1625×775×1805                                                                       | 1625×775×1805      | 1625×775×1805      | 1625×775×1805      | 1625×775×1805      |                    |
| Weight                           | Net weight                                                        | kg                  | 207                                                                               | 212                | 226                | 281                                                                                 | 281                | 282                | 364                                                                                 | 364                | 364                | 390                | 390                |                    |
|                                  | Gross weight                                                      | kg                  | 226                                                                               | 231                | 245                | 302                                                                                 | 303                | 303                | 388                                                                                 | 388                | 388                | 414                | 414                |                    |
| Noise                            | Cooling rating                                                    | SPL (Full-anechoic) | dB(A)                                                                             | 52.0               | 55.0               | 57.0                                                                                | 59.0               | 61.0               | 61.0                                                                                | 63.0               | 63.0               | 61.0               | 62.0               | 62.0               |
|                                  | Night shift mode (noise reduction setting)                        | SPL (Full-anechoic) | dB(A)                                                                             | 49.0               | 50.0               | 52.0                                                                                | 57.0               | 58.0               | 57.0                                                                                | 56.0               | 57.0               | 57.0               | 60.0               | 60.0               |
| Compressor                       | Compressor type                                                   | -                   | Hermetic (Scroll)                                                                 | Hermetic (Scroll)  | Hermetic (Scroll)  | Hermetic (Scroll)                                                                   | Hermetic (Scroll)  | Hermetic (Scroll)  | Hermetic (Scroll)                                                                   | Hermetic (Scroll)  | Hermetic (Scroll)  | Hermetic (Scroll)  | Hermetic (Scroll)  |                    |
| Outdoor unit Fan                 | Rated air volume                                                  | m³/min              | 175                                                                               | 175                | 198                | 239                                                                                 | 256                | 263                | 329                                                                                 | 329                | 348                | 375                | 375                |                    |
|                                  | Number of Fan Motors                                              | -                   | 1                                                                                 | 1                  | 1                  | 2                                                                                   | 2                  | 2                  | 2                                                                                   | 2                  | 2                  | 2                  | 2                  |                    |
|                                  | Motor output                                                      | kW                  | 0.26                                                                              | 0.26               | 0.43               | 0.3×2                                                                               | 0.35×2             | 0.38×2             | 0.4×2                                                                               | 0.4×2              | 0.47×2             | 0.58×2             | 0.58×2             |                    |
| Main pipe size                   | Heat pump                                                         | Gas piping          | mm                                                                                | 19.05              | 22.2               | 25.4                                                                                | 25.4               | 28.58              | 28.58                                                                               | 28.58              | 28.58              | 28.58              | 31.75              | 31.75              |
|                                  |                                                                   | Liquid piping       | mm                                                                                | 9.52               | 9.52               | 12.7                                                                                | 12.7               | 12.7               | 15.88                                                                               | 15.88              | 15.88              | 15.88              | 19.05              | 19.05              |
|                                  | Tubing connection method                                          |                     | -                                                                                 | Brazing connection | Brazing connection | Brazing connection                                                                  | Brazing connection | Brazing connection | Brazing connection                                                                  | Brazing connection | Brazing connection | Brazing connection | Brazing connection | Brazing connection |
| Operating temperature range      | Cooling                                                           | °C DB               | -5°C ~52°C                                                                        | -5°C ~52°C         | -5°C ~52°C         | -5°C ~52°C                                                                          | -5°C ~52°C         | -5°C ~52°C         | -5°C ~52°C                                                                          | -5°C ~52°C         | -5°C ~52°C         | -5°C ~52°C         | -5°C ~52°C         |                    |
|                                  | Heating                                                           | °C WB               | -15°C~-16°C                                                                       | -15°C~-16°C        | -15°C~-16°C        | -15°C~-16°C                                                                         | -15°C~-16°C        | -15°C~-16°C        | -15°C~-16°C                                                                         | -15°C~-16°C        | -15°C~-16°C        | -15°C~-16°C        | -15°C~-16°C        |                    |
| Maximum External static pressure |                                                                   | Pa                  | 80                                                                                | 80                 | 80                 | 80                                                                                  | 80                 | 80                 | 80                                                                                  | 80                 | 80                 | 80                 | 80                 |                    |
| Maximum Total piping length      |                                                                   | m                   | 1,000                                                                             | 1,000              | 1,000              | 1,000                                                                               | 1,000              | 1,000              | 1,000                                                                               | 1,000              | 1,000              | 1,000              | 1,000              |                    |
| Refrigerant                      | Type                                                              | -                   | R410A                                                                             | R410A              | R410A              | R410A                                                                               | R410A              | R410A              | R410A                                                                               | R410A              | R410A              | R410A              | R410A              |                    |
|                                  | Initial charge amount                                             | kg                  | 5.6                                                                               | 5.6                | 8.3                | 8.9                                                                                 | 9.5                | 10.2               | 11.2                                                                                | 11.2               | 11.5               | 11.5               | 11.5               |                    |
|                                  | Maximum additional charge amount                                  | kg                  | 28.0                                                                              | 28.0               | 36.0               | 40.0                                                                                | 40.0               | 40.0               | 46.0                                                                                | 46.0               | 46.0               | 56.0               | 56.0               |                    |
|                                  | Refrigerant control mode                                          | -                   | Microcomputer-controlled electronic expansion valve                               |                    |                    |                                                                                     |                    |                    |                                                                                     |                    |                    |                    |                    |                    |
| Refrigerant oil                  | Type                                                              | -                   | FVC68D                                                                            | FVC68D             | FVC68D             | FVC68D                                                                              | FVC68D             | FVC68D             | FVC68D                                                                              | FVC68D             | FVC68D             | FVC68D             | FVC68D             |                    |
|                                  | Charge amount                                                     | L                   | 6.0                                                                               | 6.0                | 6.0                | 6.9                                                                                 | 6.9                | 6.9                | 8.4                                                                                 | 8.4                | 8.4                | 8.4                | 8.4                |                    |
| With Indoor Unit                 | Connected capacity ratio                                          | %                   | 50~200%                                                                           | 50~200%            | 50~200%            | 50~200%                                                                             | 50~200%            | 50~200%            | 50~200%                                                                             | 50~200%            | 50~200%            | 50~200%            | 50~200%            |                    |
|                                  | Maximum Number of connectable units (recommended number of units) | -                   | 20 (8)                                                                            | 25 (10)            | 30 (10)            | 36 (16)                                                                             | 40 (16)            | 45 (16)            | 50 (18)                                                                             | 55 (20)            | 60 (26)            | 64 (26)            | 64 (32)            |                    |
|                                  | Connectable minimum capacity                                      | -                   | 0.6HP class                                                                       | 0.6HP class        | 0.6HP class        | 0.6HP class                                                                         | 0.6HP class        | 0.6HP class        | 0.6HP class                                                                         | 0.6HP class        | 0.6HP class        | 0.6HP class        | 0.6HP class        |                    |





# Specifications Heat Pump

| Specifications<br>Heat Pump      |                                                                      |                        |                                                     | LL                                                                                |                                |                                                 | LMM                                                                                 |                                                 |                                                     | LLM                                                                                 |                                                 |                                                 | LLL                                                                                 |                    |  |
|----------------------------------|----------------------------------------------------------------------|------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------|--------------------|--|
|                                  |                                                                      |                        |                                                     |  |                                |                                                 |  |                                                 |                                                     |  |                                                 |                                                 |  |                    |  |
| Capacity range                   |                                                                      | Unit                   | 52HP class                                          | 54HP class                                                                        | 56HP class                     | 58HP class                                      | 60HP class                                                                          | 62HP class                                      | 64HP class                                          | 66HP class                                                                          | 68HP class                                      | 70HP class                                      | 72HP class                                                                          |                    |  |
| Outdoor unit model               |                                                                      |                        | RAS-520HNCCLI                                       | RAS-540HNCCLI                                                                     | RAS-560HNCCLI                  | RAS-580HNCCLI                                   | RAS-600HNCCLI                                                                       | RAS-620HNCCLI                                   | RAS-640HNCCLI                                       | RAS-660HNCCLI                                                                       | RAS-680HNCCLI                                   | RAS-700HNCCLI                                   | RAS-720HNCCLI                                                                       |                    |  |
| Combination of modules           |                                                                      |                        | RAS-260HNCCLI<br>RAS-260HNCCLI                      | RAS-280HNCCLI<br>RAS-260HNCCLI                                                    | RAS-280HNCCLI<br>RAS-280HNCCLI | RAS-220HNCCLI<br>RAS-180HNCCLI<br>RAS-180HNCCLI | RAS-240HNCCLI<br>RAS-180HNCCLI<br>RAS-180HNCCLI                                     | RAS-220HNCCLI<br>RAS-220HNCCLI<br>RAS-180HNCCLI | RAS-240HNCCLI<br>RAS-220HNCCLI<br>RAS-180HNCCLI     | RAS-240HNCCLI<br>RAS-240HNCCLI<br>RAS-180HNCCLI                                     | RAS-240HNCCLI<br>RAS-220HNCCLI<br>RAS-220HNCCLI | RAS-240HNCCLI<br>RAS-240HNCCLI<br>RAS-220HNCCLI | RAS-240HNCCLI<br>RAS-240HNCCLI<br>RAS-240HNCCLI                                     |                    |  |
| Power supply                     |                                                                      | -                      | 3N~ 380-415V 50Hz                                   | 3N~ 380-415V 50Hz                                                                 | 3N~ 380-415V 50Hz              | 3N~ 380-415V 50Hz                               | 3N~ 380-415V 50Hz                                                                   | 3N~ 380-415V 50Hz                               | 3N~ 380-415V 50Hz                                   | 3N~ 380-415V 50Hz                                                                   | 3N~ 380-415V 50Hz                               | 3N~ 380-415V 50Hz                               | 3N~ 380-415V 50Hz                                                                   |                    |  |
| Cooling capacity                 |                                                                      | kW                     | 146.0                                               | 150.5                                                                             | 155.0                          | 162.3                                           | 167.8                                                                               | 173.4                                           | 178.9                                               | 184.4                                                                               | 190.0                                           | 195.5                                           | 201.0                                                                               |                    |  |
| Heating capacity                 |                                                                      | kW                     | 163.0                                               | 167.5                                                                             | 172.0                          | 181.0                                           | 189.5                                                                               | 194.0                                           | 202.5                                               | 211.0                                                                               | 215.5                                           | 224.0                                           | 232.5                                                                               |                    |  |
| Outer dimensions (W x D x H)     |                                                                      | mm                     | 3270×775×1805                                       | 3270×775×1805                                                                     | 3270×775×1805                  | 4135×775×1805                                   | 4135×775×1805                                                                       | 4525×775×1805                                   | 4525×775×1805                                       | 4525×775×1805                                                                       | 4915×775×1805                                   | 4915×775×1805                                   | 4915×775×1805                                                                       |                    |  |
| Weight                           | Net weight                                                           | kg                     | 390+390                                             | 390+390                                                                           | 390+390                        | 364+282+282                                     | 364+282+282                                                                         | 364+364+282                                     | 364+364+282                                         | 364+364+282                                                                         | 364+364+364                                     | 364+364+364                                     | 364+364+364                                                                         |                    |  |
|                                  | Gross weight                                                         | kg                     | 414+414                                             | 414+414                                                                           | 414+414                        | 388+303+303                                     | 388+303+303                                                                         | 388+388+303                                     | 388+388+303                                         | 388+388+303                                                                         | 388+388+388                                     | 388+388+388                                     | 388+388+388                                                                         |                    |  |
| Noise                            | Cooling rating                                                       | SPL<br>(Full-anechoic) | dB(A)                                               | 65.0                                                                              | 65.0                           | 65.0                                            | 67                                                                                  | 66                                              | 67                                                  | 67                                                                                  | 66                                              | 67                                              | 67                                                                                  |                    |  |
|                                  | Night shift mode<br>(noise reduction<br>setting)                     | SPL<br>(Full-anechoic) | dB(A)                                               | 63.0                                                                              | 63.0                           | 63.0                                            | 62                                                                                  | 62                                              | 62                                                  | 62                                                                                  | 62                                              | 62                                              | 62                                                                                  |                    |  |
| Compressor                       | Compressor type                                                      | -                      | Hermetic (Scroll)                                   | Hermetic (Scroll)                                                                 | Hermetic (Scroll)              | Hermetic (Scroll)                               | Hermetic (Scroll)                                                                   | Hermetic (Scroll)                               | Hermetic (Scroll)                                   | Hermetic (Scroll)                                                                   | Hermetic (Scroll)                               | Hermetic (Scroll)                               | Hermetic (Scroll)                                                                   |                    |  |
| Outdoor unit Fan                 | Rated air volume                                                     | m³/min                 | 375×2                                               | 375+375                                                                           | 375×2                          | 329+263×2                                       | 348+263×2                                                                           | 329×2+263                                       | 348+329+263                                         | 348×2+263                                                                           | 348+329×2                                       | 348×2+329                                       | 348×3                                                                               |                    |  |
|                                  | Number of Fan Motors                                                 | -                      | 2+2                                                 | 2+2                                                                               | 2+2                            | 2+2+2                                           | 2+2+2                                                                               | 2+2+2                                           | 2+2+2                                               | 2+2+2                                                                               | 2+2+2                                           | 2+2+2                                           | 2+2+2                                                                               |                    |  |
| Main pipe size                   | Heat pump                                                            | Gas piping             | mm                                                  | 38.1                                                                              | 38.1                           | 44.45                                           | 44.45                                                                               | 44.45                                           | 44.45                                               | 44.45                                                                               | 44.45                                           | 44.45                                           | 44.45                                                                               |                    |  |
|                                  |                                                                      | Liquid piping          | mm                                                  | 19.05                                                                             | 19.05                          | 19.05                                           | 19.05                                                                               | 19.05                                           | 19.05                                               | 19.05                                                                               | 19.05                                           | 22.2                                            | 22.2                                                                                | 22.2               |  |
|                                  | Tubing connection method                                             |                        | -                                                   | Brazing connection                                                                | Brazing connection             | Brazing connection                              | Brazing connection                                                                  | Brazing connection                              | Brazing connection                                  | Brazing connection                                                                  | Brazing connection                              | Brazing connection                              | Brazing connection                                                                  | Brazing connection |  |
| Operating temperature range      | Cooling                                                              | °C DB                  | -5°C ~52°C                                          | -5°C ~52°C                                                                        | -5°C ~52°C                     | -5°C ~52°C                                      | -5°C ~52°C                                                                          | -5°C ~52°C                                      | -5°C ~52°C                                          | -5°C ~52°C                                                                          | -5°C ~52°C                                      | -5°C ~52°C                                      | -5°C ~52°C                                                                          |                    |  |
|                                  | Heating                                                              | °C WB                  | -15°C~16°C                                          | -15°C~16°C                                                                        | -15°C~16°C                     | -15°C~16°C                                      | -15°C~16°C                                                                          | -15°C~16°C                                      | -15°C~16°C                                          | -15°C~16°C                                                                          | -15°C~16°C                                      | -15°C~16°C                                      | -15°C~16°C                                                                          |                    |  |
| Maximum External static pressure |                                                                      | Pa                     | 80                                                  | 80                                                                                | 80                             | 80                                              | 80                                                                                  | 80                                              | 80                                                  | 80                                                                                  | 80                                              | 80                                              | 80                                                                                  |                    |  |
| Maximum Total piping length      |                                                                      | m                      | 1,000                                               | 1,000                                                                             | 1,000                          | 1,000                                           | 1,000                                                                               | 1,000                                           | 1,000                                               | 1,000                                                                               | 1,000                                           | 1,000                                           | 1,000                                                                               |                    |  |
| Refrigerant                      | Type                                                                 | -                      | R410A                                               | R410A                                                                             | R410A                          | R410A                                           | R410A                                                                               | R410A                                           | R410A                                               | R410A                                                                               | R410A                                           | R410A                                           | R410A                                                                               |                    |  |
|                                  | Initial charge amount                                                | kg                     | 23.0                                                | 23.0                                                                              | 23.0                           | 31.6                                            | 31.9                                                                                | 32.6                                            | 32.9                                                | 33.2                                                                                | 33.9                                            | 34.2                                            | 34.5                                                                                |                    |  |
|                                  | Maximum additional charge amount                                     | kg                     | 63.0                                                | 63.0                                                                              | 63.0                           | 63.0                                            | 63.0                                                                                | 63.0                                            | 63.0                                                | 63.0                                                                                | 73.0                                            | 73.0                                            | 73.0                                                                                |                    |  |
|                                  | Refrigerant control mode                                             | -                      | Microcomputer-controlled electronic expansion valve |                                                                                   |                                |                                                 |                                                                                     |                                                 | Microcomputer-controlled electronic expansion valve |                                                                                     |                                                 |                                                 |                                                                                     |                    |  |
| Refrigerant oil                  | Type                                                                 | -                      | FVC68D                                              | FVC68D                                                                            | FVC68D                         | FVC68D                                          | FVC68D                                                                              | FVC68D                                          | FVC68D                                              | FVC68D                                                                              | FVC68D                                          | FVC68D                                          | FVC68D                                                                              |                    |  |
|                                  | Charge amount                                                        | L                      | 16.8                                                | 16.8                                                                              | 16.8                           | 22.2                                            | 22.2                                                                                | 23.7                                            | 23.7                                                | 23.7                                                                                | 25.2                                            | 25.2                                            | 25.2                                                                                |                    |  |
| With Indoor Unit                 | Connected capacity ratio                                             | %                      | 50~200%                                             | 50~200%                                                                           | 50~180%                        | 50~150%                                         | 50~150%                                                                             | 50~150%                                         | 50~150%                                             | 50~150%                                                                             | 50~150%                                         | 50~150%                                         | 50~150%                                                                             |                    |  |
|                                  | Maximum Number of connectable units<br>(recommended number of units) | -                      | 64 (38)                                             | 64 (38)                                                                           | 64 (38)                        | 64 (38)                                         | 64 (38)                                                                             | 64 (38)                                         | 64 (38)                                             | 64 (38)                                                                             | 64 (38)                                         | 64 (38)                                         | 64 (38)                                                                             |                    |  |
|                                  | Connectable minimum capacity                                         | -                      | 0.6HP class                                         | 0.6HP class                                                                       | 0.6HP class                    | 0.6HP class                                     | 0.6HP class                                                                         | 0.6HP class                                     | 0.6HP class                                         | 0.6HP class                                                                         | 0.6HP class                                     | 0.6HP class                                     | 0.6HP class                                                                         |                    |  |



# Specifications Heat Pump

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| Capacity range                   |                                                                      |                        | Unit   | 74HP class                                          | 76HP class                                      | 78HP class                                      | 80HP class                                      | 82HP class                                      | 84HP class                                          | 86HP class                                                       | 88HP class                                                       | 90HP class                                                       | 92HP class                                                       | 94HP class                                                       |
|----------------------------------|----------------------------------------------------------------------|------------------------|--------|-----------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|
| Outdoor unit model               |                                                                      |                        |        | RAS-740HNCCLI                                       | RAS-760HNCCLI                                   | RAS-780HNCCLI                                   | RAS-800HNCCLI                                   | RAS-820HNCCLI                                   | RAS-840HNCCLI                                       | RAS-860HNCCLI                                                    | RAS-880HNCCLI                                                    | RAS-900HNCCLI                                                    | RAS-920HNCCLI                                                    | RAS-940HNCCLI                                                    |
| Combination of modules           |                                                                      |                        |        | RAS-260HNCCLI<br>RAS-240HNCCLI<br>RAS-240HNCCLI     | RAS-260HNCCLI<br>RAS-260HNCCLI<br>RAS-240HNCCLI | RAS-260HNCCLI<br>RAS-260HNCCLI<br>RAS-260HNCCLI | RAS-280HNCCLI<br>RAS-260HNCCLI<br>RAS-260HNCCLI | RAS-280HNCCLI<br>RAS-280HNCCLI<br>RAS-260HNCCLI | RAS-280HNCCLI<br>RAS-280HNCCLI<br>RAS-280HNCCLI     | RAS-240HNCCLI<br>RAS-220HNCCLI<br>RAS-220HNCCLI<br>RAS-180HNCCLW | RAS-240HNCCLI<br>RAS-240HNCCLI<br>RAS-220HNCCLI<br>RAS-180HNCCLI | RAS-240HNCCLI<br>RAS-240HNCCLI<br>RAS-240HNCCLI<br>RAS-180HNCCLI | RAS-240HNCCLI<br>RAS-240HNCCLI<br>RAS-220HNCCLI<br>RAS-220HNCCLI | RAS-240HNCCLI<br>RAS-240HNCCLI<br>RAS-240HNCCLI<br>RAS-220HNCCLI |
| Power supply                     |                                                                      |                        | -      | 3N~ 380-415V 50Hz                                   | 3N~ 380-415V 50Hz                               | 3N~ 380-415V 50Hz                               | 3N~ 380-415V 50Hz                               | 3N~ 380-415V 50Hz                               | 3N~ 380-415V 50Hz                                   | 3N~ 380-415V 50Hz                                                | 3N~ 380-415V 50Hz                                                | 3N~ 380-415V 50Hz                                                | 3N~ 380-415V 50Hz                                                | 3N~ 380-415V 50Hz                                                |
| Cooling capacity                 |                                                                      |                        | kW     | 207.0                                               | 213.0                                           | 219.0                                           | 223.5                                           | 228.0                                           | 232.5                                               | 240.4                                                            | 245.9                                                            | 251.4                                                            | 257.0                                                            | 262.5                                                            |
| Heating capacity                 |                                                                      |                        | kW     | 236.5                                               | 240.5                                           | 244.5                                           | 249.0                                           | 253.5                                           | 258.0                                               | 271.5                                                            | 280.0                                                            | 288.5                                                            | 293.0                                                            | 301.5                                                            |
| Outer dimensions (W x D x H)     |                                                                      |                        | mm     | 4915×775×1805                                       | 4915×775×1805                                   | 4915×775×1805                                   | 4915×775×1805                                   | 4915×775×1805                                   | 4915×775×1805                                       | 6170×775×1805                                                    | 6170×775×1805                                                    | 6170×775×1805                                                    | 6560×775×1805                                                    | 6560×775×1805                                                    |
| Weight                           | Net weight                                                           |                        | kg     | 390+364+364                                         | 390+390+364                                     | 390+390+390                                     | 390+390+390                                     | 390+390+390                                     | 390+390+390                                         | 364+364+364+282                                                  | 364+364+364+282                                                  | 364+364+364+282                                                  | 364+364+364+364                                                  | 364+364+364+364                                                  |
|                                  | Gross weight                                                         |                        | kg     | 414+388+388                                         | 414+414+388                                     | 414+414+414                                     | 414+414+414                                     | 414+414+414                                     | 414+414+414                                         | 388+388+388+303                                                  | 388+388+388+303                                                  | 388+388+388+303                                                  | 388+388+388+388                                                  | 388+388+388+388                                                  |
| Noise                            | Cooling rating                                                       | SPL<br>(Full-anechoic) | dB(A)  | 66                                                  | 66                                              | 67                                              | 67                                              | 67                                              | 67                                                  | 68                                                               | 68                                                               | 67.0                                                             | 68                                                               | 68                                                               |
|                                  | Night shift mode<br>(noise reduction<br>setting)                     | SPL<br>(Full-anechoic) | dB(A)  | 63.0                                                | 64.0                                            | 65                                              | 65                                              | 65                                              | 65                                                  | 63.0                                                             | 63.0                                                             | 63.0                                                             | 63.0                                                             | 63.0                                                             |
| Compressor                       | Compressor type                                                      |                        | -      | Hermetic (Scroll)                                   | Hermetic (Scroll)                               | Hermetic (Scroll)                               | Hermetic (Scroll)                               | Hermetic (Scroll)                               | Hermetic (Scroll)                                   | Hermetic (Scroll)                                                | Hermetic (Scroll)                                                | Hermetic (Scroll)                                                | Hermetic (Scroll)                                                | Hermetic (Scroll)                                                |
| Outdoor unit Fan                 | Rated air volume                                                     |                        | m³/min | 375+348×2                                           | 375×2+348                                       | 375×3                                           | 375+375×2                                       | 375×2+375                                       | 375×3                                               | 348+329×2+263                                                    | 348×2+329+263                                                    | 348×3+263                                                        | 348×2+329×2                                                      | 348×3+329                                                        |
|                                  | Number of Fan Motors                                                 |                        | -      | 2+2+2                                               | 2+2+2                                           | 2+2+2                                           | 2+2+2                                           | 2+2+2                                           | 2+2+2                                               | 2+2+2+2                                                          | 2+2+2+2                                                          | 2+2+2+2                                                          | 2+2+2+2                                                          | 2+2+2+2                                                          |
|                                  | Motor output                                                         |                        | kW     | 0.58×2+(0.47×2)×2                                   | (0.58×2)×2+0.47×2                               | (0.58×2)×3                                      | 0.58×2+(0.58×2)×2                               | (0.58×2)×2+0.58×2                               | (0.58×2)×3                                          | 0.47×2+(0.4×2)×2+0.38×2                                          | (0.47×2)×2+0.4×2+0.38×2                                          | (0.47×2)×3+0.38×2                                                | (0.47×2)×2+(0.4×2)×2                                             | (0.47×2)×3+0.4×2                                                 |
| Main pipe size                   | Heat pump                                                            | Gas piping             | mm     | 50.8                                                | 50.8                                            | 50.8                                            | 50.8                                            | 50.8                                            | 50.8                                                | 50.8                                                             | 50.8                                                             | 50.8                                                             | 50.8                                                             | 50.8                                                             |
|                                  |                                                                      | Liquid piping          | mm     | 22.2                                                | 22.2                                            | 22.2                                            | 22.2                                            | 22.2                                            | 22.2                                                | 22.2                                                             | 22.2                                                             | 25.4                                                             | 25.4                                                             | 25.4                                                             |
|                                  | Tubing connection method                                             |                        | -      | Brazing connection                                  | Brazing connection                              | Brazing connection                              | Brazing connection                              | Brazing connection                              | Brazing connection                                  | Brazing connection                                               | Brazing connection                                               | Brazing connection                                               | Brazing connection                                               | Brazing connection                                               |
| Operating temperature range      | Cooling                                                              |                        | °C DB  | -5°C ~52°C                                          | -5°C ~52°C                                      | -5°C ~52°C                                      | -5°C ~52°C                                      | -5°C ~52°C                                      | -5°C ~52°C                                          | -5°C ~52°C                                                       | -5°C ~52°C                                                       | -5°C ~52°C                                                       | -5°C ~52°C                                                       | -5°C ~52°C                                                       |
|                                  | Heating                                                              |                        | °C WB  | -15°C~16°C                                          | -15°C~16°C                                      | -15°C~16°C                                      | -15°C~16°C                                      | -15°C~16°C                                      | -15°C~16°C                                          | -15°C~16°C                                                       | -15°C~16°C                                                       | -15°C~16°C                                                       | -15°C~16°C                                                       | -15°C~16°C                                                       |
| Maximum External static pressure |                                                                      |                        | Pa     | 80                                                  | 80                                              | 80                                              | 80                                              | 80                                              | 80                                                  | 80                                                               | 80                                                               | 80                                                               | 80                                                               | 80                                                               |
| Maximum Total piping length      |                                                                      |                        | m      | 1,000                                               | 1,000                                           | 1,000                                           | 1,000                                           | 1,000                                           | 1,000                                               | 1,000                                                            | 1,000                                                            | 1,000                                                            | 1,000                                                            | 1,000                                                            |
| Refrigerant                      | Type                                                                 |                        | -      | R410A                                               | R410A                                           | R410A                                           | R410A                                           | R410A                                           | R410A                                               | R410A                                                            | R410A                                                            | R410A                                                            | R410A                                                            | R410A                                                            |
|                                  | Initial charge amount                                                |                        | kg     | 34.5                                                | 34.5                                            | 34.5                                            | 34.5                                            | 34.5                                            | 34.5                                                | 44.1                                                             | 44.4                                                             | 44.7                                                             | 45.4                                                             | 45.7                                                             |
|                                  | Maximum additional charge amount                                     |                        | kg     | 73.0                                                | 73.0                                            | 73.0                                            | 73.0                                            | 73.0                                            | 73.0                                                | 73.0                                                             | 73.0                                                             | 93.0                                                             | 93.0                                                             | 93.0                                                             |
|                                  | Refrigerant control mode                                             |                        | -      | Microcomputer-controlled electronic expansion valve |                                                 |                                                 |                                                 |                                                 | Microcomputer-controlled electronic expansion valve |                                                                  |                                                                  |                                                                  |                                                                  |                                                                  |
| Refrigerant oil                  | Type                                                                 |                        | -      | FVC68D                                              | FVC68D                                          | FVC68D                                          | FVC68D                                          | FVC68D                                          | FVC68D                                              | FVC68D                                                           | FVC68D                                                           | FVC68D                                                           | FVC68D                                                           | FVC68D                                                           |
|                                  | Charge amount                                                        |                        | L      | 25.2                                                | 25.2                                            | 25.2                                            | 25.2                                            | 25.2                                            | 25.2                                                | 32.1                                                             | 32.1                                                             | 32.1                                                             | 33.6                                                             | 33.6                                                             |
| With Indoor Unit                 | Connected capacity ratio                                             |                        | %      | 50~150%                                             | 50~150%                                         | 50~150%                                         | 50~150%                                         | 50~150%                                         | 50~150%                                             | 50~150%                                                          | 50~150%                                                          | 50~150%                                                          | 50~150%                                                          | 50~150%                                                          |
|                                  | Maximum Number of connectable units<br>(recommended number of units) |                        | -      | 64 (38)                                             | 64 (38)                                         | 64 (38)                                         | 64 (38)                                         | 64 (38)                                         | 64 (38)                                             | 64 (38)                                                          | 64 (38)                                                          | 64 (38)                                                          | 64 (38)                                                          | 64 (38)                                                          |
|                                  | Connectable minimum capacity                                         |                        | -      | 0.6HP class                                         | 0.6HP class                                     | 0.6HP class                                     | 0.6HP class                                     | 0.6HP class                                     | 0.6HP class                                         | 0.6HP class                                                      | 0.6HP class                                                      | 0.6HP class                                                      | 0.6HP class                                                      | 0.6HP class                                                      |



# Specifications Heat Pump

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| Capacity range                   |                                                                      |                        | Unit        | 96HP class                                                       | 98HP class                                                       | 100HP class                                                      | 102HP class                                                      | 104HP class                                                      | 106HP class                                                      | 108HP class                                                      | 110HP class                                                      | 112HP class                                                      |
|----------------------------------|----------------------------------------------------------------------|------------------------|-------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|
| Outdoor unit model               |                                                                      |                        |             | RAS-960HNCCLI                                                    | RAS-980HNCCLI                                                    | RAS-H00HNCCLI                                                    | RAS-H02HNCCLI                                                    | RAS-H04HNCCLI                                                    | RAS-H06HNCCLI                                                    | RAS-H08HNCCLI                                                    | RAS-H10HNCCLI                                                    | RAS-H12HNCCLI                                                    |
| Combination of modules           |                                                                      |                        |             | RAS-240HNCCLI<br>RAS-240HNCCLI<br>RAS-240HNCCLI<br>RAS-240HNCCLI | RAS-260HNCCLI<br>RAS-240HNCCLI<br>RAS-240HNCCLI<br>RAS-240HNCCLI | RAS-260HNCCLI<br>RAS-260HNCCLI<br>RAS-240HNCCLI<br>RAS-240HNCCLI | RAS-260HNCCLI<br>RAS-260HNCCLI<br>RAS-260HNCCLI<br>RAS-240HNCCLI | RAS-260HNCCLI<br>RAS-260HNCCLI<br>RAS-260HNCCLI<br>RAS-260HNCCLI | RAS-280HNCCLI<br>RAS-260HNCCLI<br>RAS-260HNCCLI<br>RAS-260HNCCLI | RAS-280HNCCLI<br>RAS-280HNCCLI<br>RAS-260HNCCLI<br>RAS-260HNCCLI | RAS-280HNCCLI<br>RAS-280HNCCLI<br>RAS-280HNCCLI<br>RAS-260HNCCLI | RAS-280HNCCLI<br>RAS-280HNCCLI<br>RAS-280HNCCLI<br>RAS-280HNCCLI |
| Power supply                     |                                                                      |                        | -           | 3N~ 380-415V 50Hz                                                | 3N~ 380-415V 50Hz                                                | 3N~ 380-415V 50Hz                                                | 3N~ 380-415V 50Hz                                                | 3N~ 380-415V 50Hz                                                | 3N~ 380-415V 50Hz                                                | 3N~ 380-415V 50Hz                                                | 3N~ 380-415V 50Hz                                                | 3N~ 380-415V 50Hz                                                |
| Cooling capacity                 |                                                                      |                        | kW          | 268.0                                                            | 274.0                                                            | 280.0                                                            | 286.0                                                            | 292.0                                                            | 296.5                                                            | 301.0                                                            | 305.5                                                            | 310.0                                                            |
| Heating capacity                 |                                                                      |                        | kW          | 310.0                                                            | 314.0                                                            | 318.0                                                            | 322.0                                                            | 326.0                                                            | 330.5                                                            | 335.0                                                            | 339.5                                                            | 344.0                                                            |
| Outer dimensions (W x D x H)     |                                                                      |                        | mm          | 6560×775×1805                                                    | 6560×775×1805                                                    | 6560×775×1805                                                    | 6560×775×1805                                                    | 6560×775×1805                                                    | 6560×775×1805                                                    | 6560×775×1805                                                    | 6560×775×1805                                                    | 6560×775×1805                                                    |
| Weight                           | Net weight                                                           |                        | kg          | 364+364+364+364                                                  | 390+364+364+364                                                  | 390+390+364+364                                                  | 390+390+90+364                                                   | 390+390+390+390                                                  | 390+390+390+390                                                  | 390+390+390+390                                                  | 390+390+390+390                                                  | 390+390+390+390                                                  |
|                                  | Gross weight                                                         |                        | kg          | 388+388+388+388                                                  | 414+388+388+388                                                  | 414+414+388+388                                                  | 414+414+414+388                                                  | 414+414+414+414                                                  | 414+414+414+414                                                  | 414+414+414+414                                                  | 414+414+414+414                                                  | 414+414+414+414                                                  |
| Noise                            | Cooling rating                                                       | SPL<br>(Full-anechoic) | dB(A)       | 67.0                                                             | 67                                                               | 68                                                               | 68                                                               | 68.0                                                             | 68.0                                                             | 68.0                                                             | 68.0                                                             | 68.0                                                             |
|                                  | Night shift mode<br>(noise reduction setting)                        | SPL<br>(Full-anechoic) | dB(A)       | 63.0                                                             | 64.0                                                             | 65                                                               | 65                                                               | 66.0                                                             | 66.0                                                             | 66.0                                                             | 66.0                                                             | 66.0                                                             |
| Compressor                       | Compressor type                                                      |                        | -           | Hermetic (Scroll)                                                | Hermetic (Scroll)                                                | Hermetic (Scroll)                                                | Hermetic (Scroll)                                                | Hermetic (Scroll)                                                | Hermetic (Scroll)                                                | Hermetic (Scroll)                                                | Hermetic (Scroll)                                                | Hermetic (Scroll)                                                |
| Outdoor unit Fan                 | Rated air volume                                                     |                        | m³/min      | 348×4                                                            | 375+348×3                                                        | 375×2+348×2                                                      | 375×3+348                                                        | 375×4                                                            | 375+375×3                                                        | 375×2+375×2                                                      | 375×3+375                                                        | 375×4                                                            |
|                                  | Number of Fan Motors                                                 |                        | -           | 2+2+2+2                                                          | 2+2+2+2                                                          | 2+2+2+2                                                          | 2+2+2+2                                                          | 2+2+2+2                                                          | 2+2+2+2                                                          | 2+2+2+2                                                          | 2+2+2+2                                                          | 2+2+2+2                                                          |
|                                  | Motor output                                                         |                        | kW          | (0.47×2)×4                                                       | 0.58×2+(0.47×2)×3                                                | (0.58×2)×2+(0.47×2)×2                                            | (0.58×2)×3+0.47×2                                                | (0.58×2)×4                                                       | 0.58×2+(0.58×2)×3                                                | (0.58×2)×2+(0.58×2)×2                                            | (0.58×2)×3+0.58×2                                                | (0.58×2)×4                                                       |
| Main pipe size                   | Heat pump                                                            | Gas piping             | mm          | 50.8                                                             | 54.0                                                             | 54.0                                                             | 54.0                                                             | 54.0                                                             | 54.0                                                             | 54.0                                                             | 54.0                                                             | 54.0                                                             |
|                                  |                                                                      | Liquid piping          | mm          | 25.4                                                             | 25.4                                                             | 25.4                                                             | 25.4                                                             | 25.4                                                             | 25.4                                                             | 25.4                                                             | 25.4                                                             | 25.4                                                             |
|                                  | Tubing connection method                                             |                        | -           | Brazing connection                                               | Brazing connection                                               | Brazing connection                                               | Brazing connection                                               | Brazing connection                                               | Brazing connection                                               | Brazing connection                                               | Brazing connection                                               | Brazing connection                                               |
| Operating temperature range      | Cooling                                                              | °C DB                  | -5°C ~52°C  | -5°C ~52°C                                                       | -5°C ~52°C                                                       | -5°C ~52°C                                                       | -5°C ~52°C                                                       | -5°C ~52°C                                                       | -5°C ~52°C                                                       | -5°C ~52°C                                                       | -5°C ~52°C                                                       | -5°C ~52°C                                                       |
|                                  | Heating                                                              | °C WB                  | -15°C ~16°C | -15°C ~16°C                                                      | -15°C ~16°C                                                      | -15°C ~16°C                                                      | -15°C ~16°C                                                      | -15°C ~16°C                                                      | -15°C ~16°C                                                      | -15°C ~16°C                                                      | -15°C ~16°C                                                      | -15°C ~16°C                                                      |
| Maximum External static pressure |                                                                      |                        | Pa          | 80                                                               | 80                                                               | 80                                                               | 80                                                               | 80                                                               | 80                                                               | 80                                                               | 80                                                               | 80                                                               |
| Maximum Total piping length      |                                                                      |                        | m           | 1,000                                                            | 1,000                                                            | 1,000                                                            | 1,000                                                            | 1,000                                                            | 1,000                                                            | 1,000                                                            | 1,000                                                            | 1,000                                                            |
| Refrigerant                      | Type                                                                 |                        | -           | R410A                                                            | R410A                                                            | R410A                                                            | R410A                                                            | R410A                                                            | R410A                                                            | R410A                                                            | R410A                                                            | R410A                                                            |
|                                  | Initial charge amount                                                |                        | kg          | 46.0                                                             | 46.0                                                             | 46.0                                                             | 46.0                                                             | 46.0                                                             | 46.0                                                             | 46.0                                                             | 46.0                                                             | 46.0                                                             |
|                                  | Maximum additional charge amount                                     |                        | kg          | 93.0                                                             | 93.0                                                             | 93.0                                                             | 93.0                                                             | 93.0                                                             | 93.0                                                             | 93.0                                                             | 93.0                                                             | 93.0                                                             |
|                                  | Refrigerant control mode                                             |                        | -           | Microcomputer-controlled electronic expansion valve              |                                                                  |                                                                  |                                                                  | Microcomputer-controlled electronic expansion valve              |                                                                  |                                                                  |                                                                  |                                                                  |
| Refrigerant oil                  | Type                                                                 |                        | -           | FVC68D                                                           | FVC68D                                                           | FVC68D                                                           | FVC68D                                                           | FVC68D                                                           | FVC68D                                                           | FVC68D                                                           | FVC68D                                                           | FVC68D                                                           |
|                                  | Charge amount                                                        |                        | L           | 33.6                                                             | 33.6                                                             | 33.6                                                             | 33.6                                                             | 33.6                                                             | 33.6                                                             | 33.6                                                             | 33.6                                                             | 33.6                                                             |
| With Indoor Unit                 | Connected capacity ratio                                             |                        | %           | 50~150%                                                          | 50~150%                                                          | 50~150%                                                          | 50~150%                                                          | 50~150%                                                          | 50~150%                                                          | 50~150%                                                          | 50~150%                                                          | 50~150%                                                          |
|                                  | Maximum Number of connectable units<br>(recommended number of units) |                        | -           | 64 (38)                                                          | 64 (38)                                                          | 64 (38)                                                          | 64 (38)                                                          | 64 (38)                                                          | 64 (38)                                                          | 64 (38)                                                          | 64 (38)                                                          | 64 (38)                                                          |
|                                  | Connectable minimum capacity                                         |                        | -           | 0.6HP class                                                      | 0.6HP class                                                      | 0.6HP class                                                      | 0.6HP class                                                      | 0.6HP class                                                      | 0.6HP class                                                      | 0.6HP class                                                      | 0.6HP class                                                      | 0.6HP class                                                      |



# Specifications

## Cooling

| Specifications Cooling           |                                                                   |                     |       | S<br> |                    |                    | M<br> |                    |                    | L<br> |                    |                    |                    |                    |
|----------------------------------|-------------------------------------------------------------------|---------------------|-------|----------------------------------------------------------------------------------------|--------------------|--------------------|------------------------------------------------------------------------------------------|--------------------|--------------------|------------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|
| Capacity range                   |                                                                   | Unit                |       | 8HP                                                                                    | 10HP               | 12HP               | 14HP                                                                                     | 16HP               | 18HP               | 20HP                                                                                     | 22HP               | 24HP               | 26HP               | 28HP               |
| Outdoor unit model               |                                                                   |                     |       | RAS-080CNCCLI                                                                          | RAS-100CNCCLI      | RAS-120CNCCLI      | RAS-140CNCCLI                                                                            | RAS-160CNCCLI      | RAS-180CNCCLI      | RAS-200CNCCLI                                                                            | RAS-220CNCCLI      | RAS-240CNCCLI      | RAS-260CNCCLI      | RAS-280CNCCLI      |
| Power supply                     |                                                                   | -                   |       | 3N~ 380-415V 50Hz                                                                      | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz                                                                        | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz                                                                        | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz  |
| Cooling capacity                 |                                                                   | kW                  |       | 22.4                                                                                   | 28                 | 33.5               | 40                                                                                       | 45                 | 50.4               | 56                                                                                       | 61.5               | 67                 | 73                 | 77.5               |
| Outer dimensions (W x D x H)     |                                                                   | mm                  |       | 960×775×1,805                                                                          | 960×775×1,805      | 960×775×1,805      | 960×775×1,805                                                                            | 1,220×775×1,805    | 1,220×775×1,805    | 1,220×775×1,805                                                                          | 1,600×765×1,795    | 1,610×775×1,805    | 1,610×775×1,805    | 1,610×775×1,805    |
| Weight                           | Net weight                                                        | kg                  |       | 202                                                                                    | 207                | 223                | 227                                                                                      | 271                | 277                | 2277                                                                                     | 360                | 360                | 379                | 379                |
|                                  | Gross weight                                                      | kg                  |       | 218                                                                                    | 223                | 239                | 243                                                                                      | 291                | 297                | 297                                                                                      | 383                | 383                | 402                | 402                |
| Noise                            | Cooling rating                                                    | SPL (Full-anechoic) | dB(A) | 52                                                                                     | 55                 | 57                 | 59                                                                                       | 61                 | 61                 | 61                                                                                       | 61                 | 61                 | 62                 | 62                 |
|                                  | Night shift mode (noise reduction setting)                        | SPL (Full-anechoic) | dB(A) | 49                                                                                     | 50                 | 52                 | 54                                                                                       | 56                 | 56                 | 56                                                                                       | 57                 | 57                 | 60                 | 60                 |
| Compressor                       | Compressor type                                                   | -                   |       | Hermetic(Scroll)                                                                       | Hermetic(Scroll)   | Hermetic(Scroll)   | Hermetic(Scroll)                                                                         | Hermetic(Scroll)   | Hermetic(Scroll)   | Hermetic(Scroll)                                                                         | Hermetic(Scroll)   | Hermetic(Scroll)   | Hermetic(Scroll)   | Hermetic(Scroll)   |
| Outdoor unit Fan                 | Rated air volume                                                  | m3/min              |       | 175                                                                                    | 175                | 198                | 207                                                                                      | 256                | 263                | 263                                                                                      | 329                | 348                | 375                | 375                |
|                                  | Number of Fan Motors                                              | -                   |       | 1                                                                                      | 1                  | 1                  | 2                                                                                        | 2                  | 2                  | 2                                                                                        | 2                  | 2                  | 2                  | 2                  |
|                                  | Motor output                                                      | kW                  |       | 0.26                                                                                   | 0.26               | 0.43               | 0.51                                                                                     | 0.35×2             | 0.38×2             | 0.38×2                                                                                   | 0.4×2              | 0.47×2             | 0.58×2             | 0.58×2             |
| Main pipe size                   | Gas piping                                                        | mm                  |       | 19.05                                                                                  | 22.2               | 25.4               | 25.4                                                                                     | 28.58              | 28.58              | 28.58                                                                                    | 28.58              | 28.58              | 31.75              | 31.75              |
|                                  | Liquid piping                                                     | mm                  |       | 9.52                                                                                   | 9.52               | 12.7               | 12.7                                                                                     | 12.7               | 15.88              | 15.88                                                                                    | 15.88              | 15.88              | 19.05              | 19.05              |
|                                  | Tubing connection method                                          | -                   |       | Brazing connection                                                                     | Brazing connection | Brazing connection | Brazing connection                                                                       | Brazing connection | Brazing connection | Brazing connection                                                                       | Brazing connection | Brazing connection | Brazing connection | Brazing connection |
| Operating temperature range      |                                                                   | °C DB               |       | -5°C~52°C                                                                              | -5°C~52°C          | -5°C~52°C          | -5°C~52°C                                                                                | -5°C~52°C          | -5°C~52°C          | -5°C~52°C                                                                                | -5°C~52°C          | -5°C~52°C          | -5°C~52°C          | -5°C~52°C          |
| Maximum External static pressure |                                                                   | Pa                  |       | 80                                                                                     | 80                 | 80                 | 80                                                                                       | 80                 | 80                 | 80                                                                                       | 80                 | 80                 | 80                 | 80                 |
| Maximum Total piping length      |                                                                   | m                   |       | 1,000                                                                                  | 1,000              | 1,000              | 1,000                                                                                    | 1,000              | 1,000              | 1,000                                                                                    | 1,000              | 1,000              | 1,000              | 1,000              |
| Refrigerant                      | Type -                                                            | -                   |       | R410A                                                                                  | R410A              | R410A              | R410A                                                                                    | R410A              | R410A              | R410A                                                                                    | R410A              | R410A              | R410A              | R410A              |
|                                  | Initial charge amount kg                                          | kg                  |       | 5.6                                                                                    | 5.6                | 8.3                | 8.3                                                                                      | 9.5                | 10.2               | 10.2                                                                                     | 11.2               | 11.6               | 11.6               | 11.6               |
|                                  | Maximum additional charge amount kg                               | kg                  |       | 28                                                                                     | 28                 | 36                 | 36                                                                                       | 40                 | 40                 | 40                                                                                       | 46                 | 46                 | 56                 | 56                 |
|                                  | Refrigerant control mode -                                        | -                   |       | Microcomputer-controlled electronic expansion valve                                    |                    |                    |                                                                                          |                    |                    | Microcomputer-controlled electronic expansion valve                                      |                    |                    |                    |                    |
| Refrigerant Oil                  | Type -                                                            | -                   |       | FVC68D                                                                                 | FVC68D             | FVC68D             | FVC68D                                                                                   | FVC68D             | FVC68D             | FVC68D                                                                                   | FVC68D             | FVC68D             | FVC68D             | FVC68D             |
|                                  | Charge amount L                                                   | L                   |       | 6                                                                                      | 6                  | 6                  | 6                                                                                        | 6.9                | 6.9                | 6.9                                                                                      | 8.4                | 8.4                | 8.4                | 8.4                |
| With Indoor unit                 | Connected capacity ratio %                                        | %                   |       | 50~200%                                                                                | 50~200%            | 50~200%            | 50~200%                                                                                  | 50~200%            | 50~200%            | 50~200%                                                                                  | 50~200%            | 50~200%            | 50~200%            | 50~200%            |
|                                  | Maximum Number of connectable units (recommended number of units) | -                   |       | 20 (8)                                                                                 | 25 (10)            | 30 (10)            | 36 (16)                                                                                  | 40 (16)            | 45 (16)            | 50 (18)                                                                                  | 55 (20)            | 60 (26)            | 64 (26)            | 64 (32)            |
|                                  | Connectable minimum capacity -                                    | -                   |       | 0.6HP class                                                                            | 0.6HP class        | 0.6HP class        | 0.6HP class                                                                              | 0.6HP class        | 0.6HP class        | 0.6HP class                                                                              | 0.6HP class        | 0.6HP class        | 0.6HP class        | 0.6HP class        |



# Specifications

## Cooling

|                                  |                                                 |        | MS                                                                                |                    |                    |                    | MM                                                                                |  |  |                                                     | LM                                                                                  |                    |                    |  | LL                                                                                  |                    |                    |                    |
|----------------------------------|-------------------------------------------------|--------|-----------------------------------------------------------------------------------|--------------------|--------------------|--------------------|-----------------------------------------------------------------------------------|--|--|-----------------------------------------------------|-------------------------------------------------------------------------------------|--------------------|--------------------|--|-------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|
|                                  |                                                 |        |  |                    |                    |                    |  |  |  |                                                     |  |                    |                    |  |  |                    |                    |                    |
| Capacity range                   |                                                 | Unit   | 30HP                                                                              | 32HP               | 34HP               | 36HP               |                                                                                   |  |  |                                                     | 38HP                                                                                | 40HP               | 42HP               |  | 44HP                                                                                | 46HP               | 48HP               | 50HP               |
| Outdoor unit model               |                                                 |        | RAS-300CNCCLI                                                                     | RAS-320CNCCLI      | RAS-340CNCCLI      | RAS-360CNCCLI      |                                                                                   |  |  |                                                     | RAS-380CNCCLI                                                                       | RAS-400CNCCLI      | RAS-420CNCCLI      |  | RAS-440CNCCLI                                                                       | RAS-460CNCCLI      | RAS-480CNCCLI      | RAS-500CNCCLI      |
| Combination of modules           |                                                 |        | -                                                                                 | RAS-180CNCCLI      | RAS-180CNCCLI      | RAS-180CNCCLI      |                                                                                   |  |  |                                                     | RAS-220CNCCLI                                                                       | RAS-220CNCCLI      | RAS-240CNCCLI      |  | RAS-220CNCCLI                                                                       | RAS-240CNCCLI      | RAS-240CNCCLI      | RAS-260CNCCLI      |
|                                  |                                                 |        |                                                                                   | RAS-140CNCCLI      | RAS-160CNCCLI      | RAS-180CNCCLI      |                                                                                   |  |  |                                                     | RAS-160CNCCLI                                                                       | RAS-180CNCCLI      | RAS-180CNCCLI      |  | RAS-220CNCCLI                                                                       | RAS-220CNCCLI      | RAS-240CNCCLI      | RAS-240CNCCLI      |
| Power supply                     |                                                 | -      | 3N~ 380-415V 50Hz                                                                 | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz  |                                                                                   |  |  |                                                     | 3N~ 380-415V 50Hz                                                                   | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz  |  | 3N~ 380-415V 50Hz                                                                   | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz  |
| Cooling capacity                 |                                                 | kW     | 84                                                                                | 90.4               | 95.4               | 100.8              |                                                                                   |  |  |                                                     | 106.5                                                                               | 111.9              | 117.4              |  | 123                                                                                 | 128.5              | 134                | 140                |
| Outer dimensions (W x D x H)     |                                                 | mm     | 1,610×775×1,805                                                                   | 2,200×775×1,805    | 2,460×775×1,805    | 2,460×775×1,805    |                                                                                   |  |  |                                                     | 2,850×775×1,805                                                                     | 2,850×775×1,805    | 2,850×775×1,805    |  | 3,240×775×1,805                                                                     | 3,240×775×1,805    | 3,240×775×1,805    | 3,240×775×1,805    |
| Net weight                       |                                                 | kg     | 379                                                                               | 227+277            | 271+277            | 277+277            |                                                                                   |  |  |                                                     | 271+360                                                                             | 277+360            | 277+360            |  | 360+360                                                                             | 360+360            | 360+360            | 360+379            |
| Weight                           |                                                 | kg     | 402                                                                               | 243+297            | 291+297            | 297+297            |                                                                                   |  |  |                                                     | 291+383                                                                             | 297+383            | 297+383            |  | 383+383                                                                             | 383+383            | 383+383            | 383+402            |
| Gross weight                     |                                                 |        |                                                                                   |                    |                    |                    |                                                                                   |  |  |                                                     |                                                                                     |                    |                    |  |                                                                                     |                    |                    |                    |
| Cooling rating                   | SPL                                             | dB(A)  | 65                                                                                | 63                 | 64                 | 64                 |                                                                                   |  |  |                                                     | 64                                                                                  | 64                 | 64                 |  | 64                                                                                  | 64                 | 64                 | 65                 |
|                                  | (Full-anechoic)                                 |        |                                                                                   |                    |                    |                    |                                                                                   |  |  |                                                     |                                                                                     |                    |                    |  |                                                                                     |                    |                    |                    |
| Noise Night shift mode           | SPL                                             | dB(A)  | 60                                                                                | 58                 | 59                 | 59                 |                                                                                   |  |  |                                                     | 60                                                                                  | 60                 | 60                 |  | 60                                                                                  | 60                 | 60                 | 62                 |
| (noise reduction setting)        | (Full-anechoic)                                 |        |                                                                                   |                    |                    |                    |                                                                                   |  |  |                                                     |                                                                                     |                    |                    |  |                                                                                     |                    |                    |                    |
| Compressor                       |                                                 | -      | Hermetic(Scroll)                                                                  | Hermetic(Scroll)   | Hermetic(Scroll)   | Hermetic(Scroll)   |                                                                                   |  |  |                                                     | Hermetic(Scroll)                                                                    | Hermetic(Scroll)   | Hermetic(Scroll)   |  | Hermetic(Scroll)                                                                    | Hermetic(Scroll)   | Hermetic(Scroll)   | Hermetic(Scroll)   |
| Outdoor unit Fan                 | Rated air volume                                | m3/min | 405                                                                               | 207+263            | 256+263            | 263+263            |                                                                                   |  |  |                                                     | 256+329                                                                             | 263+329            | 263+348            |  | 329+329                                                                             | 329+348            | 348+348            | 348+375            |
|                                  | Outdoor unit Fan Number of Fan Motors           | -      | 2+1                                                                               | 2+2                | 2+2                | 2+2                |                                                                                   |  |  |                                                     | 2+2                                                                                 | 2+2                | 2+2                |  | 2+2                                                                                 | 2+2                | 2+2                | 2+2                |
|                                  | Motor output                                    | kW     | 0.71×2                                                                            | 0.38×2+0.51        | 0.38×2+0.35×2      | (0.38×2)×2         |                                                                                   |  |  |                                                     | 0.4×2+0.35×2                                                                        | 0.4×2+0.38×2       | 0.47×2+0.38×2      |  | (0.4×2)×2                                                                           | 0.47×2+0.4×2       | (0.47×2)×2         | 0.58×2+0.47×2      |
| Main pipe size                   | Gas piping                                      | mm     | 31.75                                                                             | 31.75              | 31.75              | 38.1               |                                                                                   |  |  |                                                     | 38.1                                                                                | 38.1               | 38.1               |  | 38.1                                                                                | 38.1               | 38.1               | 38.1               |
|                                  | Main pipe size Liquid piping                    | mm     | 19.05                                                                             | 19.05              | 19.05              | 19.05              |                                                                                   |  |  |                                                     | 19.05                                                                               | 19.05              | 19.05              |  | 19.05                                                                               | 19.05              | 19.05              | 19.05              |
|                                  | Tubing connection method                        |        | Brazing connection                                                                | Brazing connection | Brazing connection | Brazing connection |                                                                                   |  |  |                                                     | Brazing connection                                                                  | Brazing connection | Brazing connection |  | Brazing connection                                                                  | Brazing connection | Brazing connection | Brazing connection |
| Operating temperature range      |                                                 | °C DB  | -5°C~52°C                                                                         | -5°C~52°C          | -5°C~52°C          | -5°C~52°C          |                                                                                   |  |  |                                                     | -5°C~52°C                                                                           | -5°C~52°C          | -5°C~52°C          |  | -5°C~52°C                                                                           | -5°C~52°C          | -5°C~52°C          | -5°C~52°C          |
| Maximum External static pressure |                                                 | Pa     | 80                                                                                | 80                 | 80                 | 80                 |                                                                                   |  |  |                                                     | 80                                                                                  | 80                 | 80                 |  | 80                                                                                  | 80                 | 80                 | 80                 |
| Maximum Total piping length      |                                                 | m      | 1,000                                                                             | 1,000              | 1,000              | 1,000              |                                                                                   |  |  |                                                     | 1,000                                                                               | 1,000              | 1,000              |  | 1,000                                                                               | 1,000              | 1,000              | 1,000              |
| Refrigerent                      | Type -                                          |        | R410A                                                                             | R410A              | R410A              | R410A              |                                                                                   |  |  |                                                     | R410A                                                                               | R410A              | R410A              |  | R410A                                                                               | R410A              | R410A              | R410A              |
|                                  | Initial charge amount kg                        | kg     | 11.6                                                                              | 18.5               | 19.7               | 20.4               |                                                                                   |  |  |                                                     | 20.7                                                                                | 21.4               | 21.8               |  | 22.4                                                                                | 22.8               | 23.2               | 23.2               |
|                                  | Refrigerant Maximum additional charge amount kg | kg     | 56                                                                                | 76                 | 80                 | 80                 |                                                                                   |  |  |                                                     | 86                                                                                  | 86                 | 86                 |  | 92                                                                                  | 92                 | 92                 | 102                |
|                                  | Refrigerant control mode -                      |        | Microcomputer-controlled electronic expansion valve                               |                    |                    |                    |                                                                                   |  |  | Microcomputer-controlled electronic expansion valve |                                                                                     |                    |                    |  |                                                                                     |                    |                    |                    |
| Refrigerent Oil                  | Type -                                          | -      | FVC68D                                                                            | FVC68D             | FVC68D             | FVC68D             |                                                                                   |  |  |                                                     | FVC68D                                                                              | FVC68D             | FVC68D             |  | FVC68D                                                                              | FVC68D             | FVC68D             | FVC68D             |
|                                  | Charge amount L                                 | L      | 8.4                                                                               | 12.9               | 13.8               | 13.8               |                                                                                   |  |  |                                                     | 15.3                                                                                | 15.3               | 15.3               |  | 16.8                                                                                | 16.8               | 16.8               | 16.8               |



# Specifications

## Cooling

|                                  |                                                                   |                 | LL                                                                                |                                                     |                                | LMM                                                                                 |                                |                                | LLM                                                                                 |                                                 |                                                 | LLL                                                                                 |                                                 |                                                 |
|----------------------------------|-------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
|                                  |                                                                   |                 |  |                                                     |                                |  |                                |                                |  |                                                 |                                                 |  |                                                 |                                                 |
| Capacity range                   |                                                                   |                 | Unit                                                                              | 52HP                                                | 54HP                           | 56HP                                                                                | 58HP                           | 60HP                           | 62HP                                                                                | 64HP                                            | 66HP                                            | 68HP                                                                                | 70HP                                            | 72HP                                            |
| Outdoor unit model               |                                                                   |                 |                                                                                   | RAS-520CNCCLI                                       | RAS-540CNCCLI                  | RAS-560CNCCLI                                                                       | RAS-580CNCCLI                  | RAS-600CNCCLI                  | RAS-620CNCCLI                                                                       | RAS-640CNCCLI                                   | RAS-660CNCCLI                                   | RAS-680CNCCLI                                                                       | RAS-700CNCCLI                                   | RAS-720CNCCLI                                   |
| Combination of modules           |                                                                   |                 |                                                                                   | RAS-260CNCCLI<br>RAS-260CNCCLI                      | RAS-280CNCCLI<br>RAS-260CNCCLI | RAS-280CNCCLI<br>RAS-280CNCCLI                                                      | RAS-300CNCCLI<br>RAS-280CNCCLI | RAS-300CNCCLI<br>RAS-300CNCCLI | RAS-220CNCCLI<br>RAS-220CNCCLI<br>RAS-180CNCCLI                                     | RAS-240CNCCLI<br>RAS-220CNCCLI<br>RAS-180CNCCLI | RAS-240CNCCLI<br>RAS-240CNCCLI<br>RAS-180CNCCLI | RAS-240CNCCLI<br>RAS-220CNCCLI<br>RAS-220CNCCLI                                     | RAS-240CNCCLI<br>RAS-240CNCCLI<br>RAS-220CNCCLI | RAS-240CNCCLI<br>RAS-240CNCCLI<br>RAS-240CNCCLI |
| Power supply                     |                                                                   |                 | -                                                                                 | 3N~ 380-415V 50Hz                                   | 3N~ 380-415V 50Hz              | 3N~ 380-415V 50Hz                                                                   | 3N~ 380-415V 50Hz              | 3N~ 380-415V 50Hz              | 3N~ 380-415V 50Hz                                                                   | 3N~ 380-415V 50Hz                               | 3N~ 380-415V 50Hz                               | 3N~ 380-415V 50Hz                                                                   | 3N~ 380-415V 50Hz                               | 3N~ 380-415V 50Hz                               |
| Cooling capacity                 |                                                                   |                 | kW                                                                                | 146                                                 | 150.5                          | 155                                                                                 | 161.5                          | 168                            | 173.4                                                                               | 178.9                                           | 184.4                                           | 190                                                                                 | 195.5                                           | 201                                             |
| Outer dimensions (W x D x H)     |                                                                   |                 | mm                                                                                | 3,240×775×1,805                                     | 3,240×775×1,805                | 3,240×775×1,805                                                                     | 3,240×775×1,805                | 3,240×775×1,805                | 4,480×775×1,805                                                                     | 4,480×775×1,805                                 | 4,480×775×1,805                                 | 4,870×775×1,805                                                                     | 4,870×775×1,805                                 | 4,870×775×1,805                                 |
| Weight                           | Net weight                                                        |                 | kg                                                                                | 379+379                                             | 379+379                        | 379+379                                                                             | 379+379                        | 379+379                        | 277+360+360                                                                         | 277+360+360                                     | 277+360+360                                     | 360+360+360                                                                         | 360+360+360                                     | 360+360+360                                     |
|                                  | Gross weight                                                      |                 | kg                                                                                | 402+402                                             | 402+402                        | 402+402                                                                             | 402+402                        | 402+402                        | 297+383+383                                                                         | 297+383+383                                     | 297+383+383                                     | 383+383+383                                                                         | 383+383+383                                     | 383+383+383                                     |
| Noise                            | Cooling rating                                                    | SPL             | dB(A)                                                                             | 65                                                  | 65                             | 65                                                                                  | 67                             | 68                             | 66                                                                                  | 66                                              | 66                                              | 66                                                                                  | 66                                              | 66                                              |
|                                  |                                                                   | (Full-anechoic) |                                                                                   |                                                     |                                |                                                                                     |                                |                                |                                                                                     |                                                 |                                                 |                                                                                     |                                                 |                                                 |
|                                  | Night shift mode (noise reduction setting)                        | SPL             | dB(A)                                                                             | 63                                                  | 63                             | 63                                                                                  | 63                             | 63                             | 61                                                                                  | 61                                              | 61                                              | 62                                                                                  | 62                                              | 62                                              |
|                                  |                                                                   | (Full-anechoic) |                                                                                   |                                                     |                                |                                                                                     |                                |                                |                                                                                     |                                                 |                                                 |                                                                                     |                                                 |                                                 |
| Compressor                       | Compressor type                                                   |                 | -                                                                                 | Hermetic(Scroll)                                    | Hermetic(Scroll)               | Hermetic(Scroll)                                                                    | Hermetic(Scroll)               | Hermetic(Scroll)               | Hermetic(Scroll)                                                                    | Hermetic(Scroll)                                | Hermetic(Scroll)                                | Hermetic(Scroll)                                                                    | Hermetic(Scroll)                                | Hermetic(Scroll)                                |
| Outdoor unit Fan                 | Rated air volume                                                  |                 | m3/min                                                                            | 375+375                                             | 375+375                        | 375+375                                                                             | 375+405                        | 405+405                        | 263+329+329                                                                         | 263+329+348                                     | 263+329+348                                     | 329+329+348                                                                         | 329+348+348                                     | 348+348+348                                     |
|                                  | Number of Fan Motors                                              |                 | -                                                                                 | 2+2                                                 | 2+2                            | 2+2                                                                                 | 2+2                            | 2+2                            | 2+2+2                                                                               | 2+2+2                                           | 2+2+2                                           | 2+2+2                                                                               | 2+2+2                                           | 2+2+2                                           |
|                                  | Motor output                                                      |                 | kW                                                                                | (0.58×2)×2                                          | 0.58×2+0.58×2                  | (0.58×2)×2                                                                          | 0.71×2+0.58×2                  | (0.71×2)×2                     | (0.4×2)×2+0.38×2                                                                    | 0.47×2+0.4×2+0.38×2                             | (0.47×2)×2+0.38×2                               | 0.47×2+(0.4×2)×2                                                                    | (0.47×2)×2+0.4×2                                | (0.47×2)×3                                      |
| Main pipe size                   | Gas piping                                                        |                 | mm                                                                                | 38.1                                                | 38.1                           | 44.45                                                                               | 44.45                          | 44.45                          | 44.45                                                                               | 44.45                                           | 44.45                                           | 44.45                                                                               | 44.45                                           | 44.45                                           |
|                                  | Liquid piping                                                     |                 | mm                                                                                | 19.05                                               | 19.05                          | 19.05                                                                               | 19.05                          | 19.05                          | 19.05                                                                               | 19.05                                           | 19.05                                           | 22.2                                                                                | 22.2                                            | 22.2                                            |
|                                  | Tubing connection method                                          |                 | -                                                                                 | Brazing connection                                  | Brazing connection             | Brazing connection                                                                  | Brazing connection             | Brazing connection             | Brazing connection                                                                  | Brazing connection                              | Brazing connection                              | Brazing connection                                                                  | Brazing connection                              | Brazing connection                              |
| Operating temperature range      |                                                                   |                 | °C DB                                                                             | -5°C~52°C                                           | -5°C~52°C                      | -5°C~52°C                                                                           | -5°C~52°C                      | -5°C~52°C                      | -5°C~52°C                                                                           | -5°C~52°C                                       | -5°C~52°C                                       | -5°C~52°C                                                                           | -5°C~52°C                                       | -5°C~52°C                                       |
| Maximum External static pressure |                                                                   |                 | Pa                                                                                | 80                                                  | 80                             | 80                                                                                  | 80                             | 80                             | 80                                                                                  | 80                                              | 80                                              | 80                                                                                  | 80                                              | 80                                              |
| Maximum Total piping length      |                                                                   |                 | m                                                                                 | 1,000                                               | 1,000                          | 1,000                                                                               | 1,000                          | 1,000                          | 1,000                                                                               | 1,000                                           | 1,000                                           | 1,000                                                                               | 1,000                                           | 1,000                                           |
| Refrigerant                      | Type -                                                            |                 | -                                                                                 | R410A                                               | R410A                          | R410A                                                                               | R410A                          | R410A                          | R410A                                                                               | R410A                                           | R410A                                           | R410A                                                                               | R410A                                           | R410A                                           |
|                                  | Initial charge amount kg                                          |                 | kg                                                                                | 23.2                                                | 23.2                           | 23.2                                                                                | 23.2                           | 23.2                           | 32.6                                                                                | 33                                              | 33.4                                            | 34                                                                                  | 34.4                                            | 34.8                                            |
|                                  | Maximum additional charge amount kg                               |                 | kg                                                                                | 112                                                 | 112                            | 112                                                                                 | 112                            | 112                            | 132                                                                                 | 132                                             | 132                                             | 138                                                                                 | 138                                             | 138                                             |
|                                  | Refrigerant control mode                                          |                 | -                                                                                 | Microcomputer-controlled electronic expansion valve |                                |                                                                                     |                                |                                | Microcomputer-controlled electronic expansion valve                                 |                                                 |                                                 |                                                                                     |                                                 |                                                 |
| Refrigerant oil                  | Type                                                              |                 | -                                                                                 | FVC68D                                              | FVC68D                         | FVC68D                                                                              | FVC68D                         | FVC68D                         | FVC68D                                                                              | FVC68D                                          | FVC68D                                          | FVC68D                                                                              | FVC68D                                          | FVC68D                                          |
|                                  | Charge amount                                                     |                 | L                                                                                 | 16.8                                                | 16.8                           | 16.8                                                                                | 16.8                           | 16.8                           | 23.7                                                                                | 23.7                                            | 23.7                                            | 25.2                                                                                | 25.2                                            | 25.2                                            |
| With Indoor Unit                 | Connected capacity ratio                                          |                 | %                                                                                 | 50~200%                                             | 50~200%                        | 50~180%                                                                             | 50~150%                        | 50~150%                        | 50~150%                                                                             | 50~150%                                         | 50~150%                                         | 50~150%                                                                             | 50~150%                                         | 50~150%                                         |
|                                  | Maximum Number of connectable units (recommended number of units) |                 | -                                                                                 | 64 (38)                                             | 64 (38)                        | 64 (38)                                                                             | 64 (38)                        | 64 (38)                        | 64 (38)                                                                             | 64 (38)                                         | 64 (38)                                         | 64 (38)                                                                             | 64 (38)                                         | 64 (38)                                         |
|                                  | Connectable minimum capacity                                      |                 | -                                                                                 | 0.6HP class                                         | 0.6HP class                    | 0.6HP class                                                                         | 0.6HP class                    | 0.6HP class                    | 0.6HP class                                                                         | 0.6HP class                                     | 0.6HP class                                     | 0.6HP class                                                                         | 0.6HP class                                     | 0.6HP class                                     |



# Specifications

## Cooling

| Specifications<br>Cooling        |                                                                   |                 |                                                     | LLL                                                                               |                                                 |                                                 |                                                 | LLLM                                                                                |                                                     |                                                 |                                                 | LLLL                                                                                |                                                                  |    |
|----------------------------------|-------------------------------------------------------------------|-----------------|-----------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------|----|
|                                  |                                                                   |                 |                                                     |  |                                                 |                                                 |                                                 |  |                                                     |                                                 |                                                 |  |                                                                  |    |
| Capacity range                   |                                                                   | Unit            | 74HP                                                | 76HP                                                                              | 78HP                                            | 80HP                                            | 82HP                                            | 84HP                                                                                | 86HP                                                | 88HP                                            | 90HP                                            | 92HP                                                                                | 94HP                                                             |    |
| Outdoor unit model               |                                                                   |                 | RAS-740CNCCLI                                       | RAS-760CNCCLI                                                                     | RAS-780CNCCLI                                   | RAS-800CNCCLI                                   | RAS-820CNCCLI                                   | RAS-840CNCCLI                                                                       | RAS-860CNCCLI                                       | RAS-880CNCCLI                                   | RAS-900CNCCLI                                   | RAS-920CNCCLI                                                                       | RAS-940CNCCLI                                                    |    |
| Combination of modules           |                                                                   |                 | RAS-260CNCCLI<br>RAS-240CNCCLI<br>RAS-240CNCCLI     | RAS-260CNCCLI<br>RAS-260CNCCLI<br>RAS-240CNCCLI                                   | RAS-260CNCCLI<br>RAS-260CNCCLI<br>RAS-260CNCCLI | RAS-280CNCCLI<br>RAS-260CNCCLI<br>RAS-260CNCCLI | RAS-280CNCCLI<br>RAS-280CNCCLI<br>RAS-260CNCCLI | RAS-280CNCCLI<br>RAS-280CNCCLI<br>RAS-280CNCCLI                                     | RAS-300CNCCLI<br>RAS-280CNCCLI<br>RAS-280CNCCLI     | RAS-300CNCCLI<br>RAS-300CNCCLI<br>RAS-280CNCCLI | RAS-300CNCCLI<br>RAS-300CNCCLI<br>RAS-300CNCCLI | RAS-240CNCCLI<br>RAS-240CNCCLI<br>RAS-220CNCCLI                                     | RAS-240CNCCLI<br>RAS-240CNCCLI<br>RAS-240CNCCLI<br>RAS-220CNCCLI |    |
| Power supply                     |                                                                   | -               | 3N~ 380-415V 50Hz                                   | 3N~ 380-415V 50Hz                                                                 | 3N~ 380-415V 50Hz                               | 3N~ 380-415V 50Hz                               | 3N~ 380-415V 50Hz                               | 3N~ 380-415V 50Hz                                                                   | 3N~ 380-415V 50Hz                                   | 3N~ 380-415V 50Hz                               | 3N~ 380-415V 50Hz                               | 3N~ 380-415V 50Hz                                                                   | 3N~ 380-415V 50Hz                                                |    |
| Cooling capacity                 |                                                                   | kW              | 207                                                 | 213                                                                               | 219                                             | 223.5                                           | 228                                             | 232.5                                                                               | 239                                                 | 245.5                                           | 252                                             | 257                                                                                 | 262.5                                                            |    |
| Outer dimensions (W x D x H)     |                                                                   | mm              | 4,870×775×1,805                                     | 4,870×775×1,805                                                                   | 4,870×775×1,805                                 | 4,870×775×1,805                                 | 4,870×775×1,805                                 | 4,870×775×1,805                                                                     | 4,870×775×1,805                                     | 4,870×775×1,805                                 | 4,870×775×1,805                                 | 6,500×775×1,805                                                                     | 6,500×775×1,805                                                  |    |
| Weight                           | Net weight                                                        | kg              | 360+360+360                                         | 360+379+379                                                                       | 379+379+379                                     | 379+379+379                                     | 379+379+379                                     | 379+379+379                                                                         | 379+379+379                                         | 379+379+379                                     | 379+379+379                                     | 360+360+360+360                                                                     | 360+360+360+360                                                  |    |
|                                  | Gross weight                                                      | kg              | 383+383+383                                         | 383+402+402                                                                       | 402+402+402                                     | 402+402+402                                     | 402+402+402                                     | 402+402+402                                                                         | 402+402+402                                         | 402+402+402                                     | 402+402+402                                     | 383+383+383+383                                                                     | 383+383+383+383                                                  |    |
| Noise                            | Cooling rating                                                    | SPL             | dB(A)                                               | 66                                                                                | 66                                              | 67                                              | 67                                              | 67                                                                                  | 67                                                  | 68                                              | 69                                              | 70                                                                                  | 67                                                               | 67 |
|                                  |                                                                   | (Full-anechoic) |                                                     |                                                                                   |                                                 |                                                 |                                                 |                                                                                     |                                                     |                                                 |                                                 |                                                                                     |                                                                  |    |
|                                  | Night shift mode (noise reduction setting)                        | SPL             | dB(A)                                               | 63                                                                                | 64                                              | 65                                              | 65                                              | 65                                                                                  | 65                                                  | 65                                              | 65                                              | 65                                                                                  | 63                                                               | 63 |
|                                  |                                                                   | (Full-anechoic) |                                                     |                                                                                   |                                                 |                                                 |                                                 |                                                                                     |                                                     |                                                 |                                                 |                                                                                     |                                                                  |    |
| Compressor                       | Compressor type                                                   | -               | Hermetic(Scroll)                                    | Hermetic(Scroll)                                                                  | Hermetic(Scroll)                                | Hermetic(Scroll)                                | Hermetic(Scroll)                                | Hermetic(Scroll)                                                                    | Hermetic(Scroll)                                    | Hermetic(Scroll)                                | Hermetic(Scroll)                                | Hermetic(Scroll)                                                                    | Hermetic(Scroll)                                                 |    |
| Outdoor unit Fan                 | Rated air volume                                                  | m3/min          | 348+348+375                                         | 348+375+375                                                                       | 375+375+375                                     | 375+375+375                                     | 375+375+375                                     | 375+375+375                                                                         | 375+375+405                                         | 375+405+405                                     | 405+405+405                                     | 329+329+348+348                                                                     | 329+348+348+348                                                  |    |
|                                  | Number of Fan Motors                                              | -               | 2+2+2                                               | 2+2+2                                                                             | 2+2+2                                           | 2+2+2                                           | 2+2+2                                           | 2+2+2                                                                               | 2+2+2+2                                             | 2+2+2+2                                         | 2+2+2+2                                         | 2+2+2+2                                                                             | 2+2+2+2                                                          |    |
|                                  | Motor output                                                      | kW              | 0.58×2+(0.47×2)×2                                   | (0.58×2)×2+0.47×2                                                                 | (0.58×2)×3                                      | 0.58×2+(0.58×2)×2                               | (0.58×2)×2+0.58×2                               | (0.58×2)×3                                                                          | 0.71×2+(0.58×2)×2                                   | (0.71×2)×2+0.58×2                               | (0.71×2)×3                                      | (0.47×2)×2+(0.4×2)×2                                                                | (0.47×2)×3+0.4×2                                                 |    |
| Main pipe size                   | Gas piping                                                        | mm              | 50.8                                                | 50.8                                                                              | 50.8                                            | 50.8                                            | 50.8                                            | 50.8                                                                                | 50.8                                                | 50.8                                            | 50.8                                            | 50.8                                                                                | 50.8                                                             |    |
|                                  | Liquid piping                                                     | mm              | 22.2                                                | 22.2                                                                              | 22.2                                            | 22.2                                            | 22.2                                            | 22.2                                                                                | 22.2                                                | 22.2                                            | 25.4                                            | 25.4                                                                                | 25.4                                                             |    |
|                                  | Tubing connection method                                          | -               | Welding connection                                  | Welding connection                                                                | Welding connection                              | Welding connection                              | Welding connection                              | Welding connection                                                                  | Welding connection                                  | Welding connection                              | Welding connection                              | Welding connection                                                                  | Welding connection                                               |    |
| Operating temperature range      |                                                                   | °C DB           | -5°C~52°C                                           | -5°C~52°C                                                                         | -5°C~52°C                                       | -5°C~52°C                                       | -5°C~52°C                                       | -5°C~52°C                                                                           | -5°C~52°C                                           | -5°C~52°C                                       | -5°C~52°C                                       | -5°C~52°C                                                                           | -5°C~52°C                                                        |    |
| Maximum External static pressure |                                                                   | Pa              | 80                                                  | 80                                                                                | 80                                              | 80                                              | 80                                              | 80                                                                                  | 80                                                  | 80                                              | 80                                              | 80                                                                                  | 80                                                               |    |
| Maximum Total piping length      |                                                                   | m               | 1,000                                               | 1,000                                                                             | 1,000                                           | 1,000                                           | 1,000                                           | 1,000                                                                               | 1,000                                               | 1,000                                           | 1,000                                           | 1,000                                                                               | 1,000                                                            |    |
| Refrigerent                      | Type -                                                            |                 | R410A                                               | R410A                                                                             | R410A                                           | R410A                                           | R410A                                           | R410A                                                                               | R410A                                               | R410A                                           | R410A                                           | R410A                                                                               | R410A                                                            |    |
|                                  | Initial charge amount kg                                          | kg              | 34.8                                                | 34.8                                                                              | 34.8                                            | 34.8                                            | 34.8                                            | 34.8                                                                                | 34.8                                                | 34.8                                            | 34.8                                            | 45.6                                                                                | 46                                                               |    |
|                                  | Refrigerant Maximum additional charge amount k                    | kg              | 148                                                 | 158                                                                               | 168                                             | 168                                             | 168                                             | 168                                                                                 | 168                                                 | 168                                             | 168                                             | 184                                                                                 | 184                                                              |    |
|                                  | Refrigerant control mode -                                        |                 | Microcomputer-controlled electronic expansion valve |                                                                                   |                                                 |                                                 |                                                 |                                                                                     | Microcomputer-controlled electronic expansion valve |                                                 |                                                 |                                                                                     |                                                                  |    |
| Refrigerant oil                  | Type                                                              | -               | FVC68D                                              | FVC68D                                                                            | FVC68D                                          | FVC68D                                          | FVC68D                                          | FVC68D                                                                              | FVC68D                                              | FVC68D                                          | FVC68D                                          | FVC68D                                                                              | FVC68D                                                           |    |
|                                  | Charge amount                                                     | L               | 25.2                                                | 25.2                                                                              | 25.2                                            | 25.2                                            | 25.2                                            | 25.2                                                                                | 25.2                                                | 25.2                                            | 25.2                                            | 33.6                                                                                | 33.6                                                             |    |
| With Indoor Unit                 | Connected capacity ratio                                          | %               | 50~150%                                             | 50~150%                                                                           | 50~150%                                         | 50~150%                                         | 50~150%                                         | 50~150%                                                                             | 50~150%                                             | 50~150%                                         | 50~150%                                         | 50~150%                                                                             | 50~150%                                                          |    |
|                                  | Maximum Number of connectable units (recommended number of units) | -               | 64 (38)                                             | 64 (38)                                                                           | 64 (38)                                         | 64 (38)                                         | 64 (38)                                         | 64 (38)                                                                             | 64 (38)                                             | 64 (38)                                         | 64 (38)                                         | 64 (38)                                                                             | 64 (38)                                                          |    |
|                                  | Connectable minimum capacity                                      | -               | 0.6HP class                                         | 0.6HP class                                                                       | 0.6HP class                                     | 0.6HP class                                     | 0.6HP class                                     | 0.6HP class                                                                         | 0.6HP class                                         | 0.6HP class                                     | 0.6HP class                                     | 0.6HP class                                                                         | 0.6HP class                                                      |    |

Specifications

Cooling



| Capacity range                   |                                                                   |        | Unit                                                | 96HP               | 98HP                  | 100HP              | 102HP                                               | 104HP              | 106HP             | 108HP                 | 110HP              | 112HP              | 114HP              | 116HP                 | 118HP               | 120HP              |               |               |
|----------------------------------|-------------------------------------------------------------------|--------|-----------------------------------------------------|--------------------|-----------------------|--------------------|-----------------------------------------------------|--------------------|-------------------|-----------------------|--------------------|--------------------|--------------------|-----------------------|---------------------|--------------------|---------------|---------------|
| Outdoor unit model               |                                                                   |        |                                                     | RAS-960CNCCLI      | RAS-980CNCCLI         | RAS-H00CNCCLI      | RAS-H02CNCCLI                                       | RAS-H04CNCCLI      | RAS-H06CNCCLI     |                       | RAS-H08CNCCLI      | RAS-H10CNCCLI      | RAS-H12CNCCLI      | RAS-H14CNCCLI         | RAS-H16CNCCLI       | RAS-H18CNCCLI      | RAS-H20CNCCLI |               |
| Combination of modules           |                                                                   |        |                                                     | RAS-240CNCCLI      | RAS-260CNCCLI         | RAS-260CNCCLI      | RAS-260CNCCLI                                       | RAS-260CNCCLI      | RAS-280CNCCLI     |                       | RAS-280CNCCLI      | RAS-280CNCCLI      | RAS-280CNCCLI      | RAS-300CNCCLI         | RAS-300CNCCLI       | RAS-300CNCCLI      | RAS-300CNCCLI |               |
|                                  |                                                                   |        |                                                     | RAS-240CNCCLI      | RAS-240CNCCLI         | RAS-260CNCCLI      | RAS-260CNCCLI                                       | RAS-260CNCCLI      | RAS-260CNCCLI     |                       | RAS-280CNCCLI      | RAS-280CNCCLI      | RAS-280CNCCLI      | RAS-280CNCCLI         | RAS-300CNCCLI       | RAS-300CNCCLI      | RAS-300CNCCLI | RAS-300CNCCLI |
|                                  |                                                                   |        |                                                     | RAS-240CNCCLI      | RAS-240CNCCLI         | RAS-240CNCCLI      | RAS-260CNCCLI                                       | RAS-260CNCCLI      | RAS-260CNCCLI     |                       | RAS-260CNCCLI      | RAS-280CNCCLI      | RAS-280CNCCLI      | RAS-280CNCCLI         | RAS-280CNCCLI       | RAS-300CNCCLI      | RAS-300CNCCLI | RAS-300CNCCLI |
|                                  |                                                                   |        |                                                     | RAS-240CNCCLI      | RAS-240CNCCLI         | RAS-240CNCCLI      | RAS-240CNCCLI                                       | RAS-260CNCCLI      | RAS-260CNCCLI     |                       | RAS-260CNCCLI      | RAS-260CNCCLI      | RAS-280CNCCLI      | RAS-280CNCCLI         | RAS-280CNCCLI       | RAS-280CNCCLI      | RAS-300CNCCLI | RAS-300CNCCLI |
| Power supply                     |                                                                   |        | -                                                   | 3N~ 380-415V       | 3N~ 380-415V          | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz                                   | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz | 3N~ 380-415V 50Hz     | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz  | 3N~ 380-415V 50Hz     | 3N~ 380-415V 50Hz   | 3N~ 380-415V 50Hz  |               |               |
| Cooling capacity                 |                                                                   |        | kW                                                  | 268                | 274                   | 280                | 286                                                 | 292                | 296.5             | 301                   | 305.5              | 310                | 316.5              | 323                   | 329.5               | 329.5              |               |               |
| Outer dimensions (W x D x H)     |                                                                   |        | mm                                                  | 6,500×775×1,805    | 6,500×775×1,805       | 6,500×775×1,805    | 6,500×775×1,805                                     | 6,500×775×1,805    | 6,500×775×1,805   | 6,500×775×1,805       | 6,500×775×1,805    | 6,500×775×1,805    | 6,500×775×1,805    | 6,500×775×1,805       | 6,500×775×1,805     | 6,500×775×1,805    |               |               |
| Weight                           | Net weight                                                        | kg     | 360+360+360+360                                     | 360+360+360+379    | 360+360+379+379       | 360+379+379+379    | 379+379+379+379                                     | 379+379+379+379    |                   | 379+379+379+379       | 379+379+379+379    | 379+379+379+379    | 379+379+379+379    | 379+379+379+379       | 379+379+379+379     | 379+379+379+379    |               |               |
|                                  | Gross weight                                                      | kg     | 383+383+383+383                                     | 383+383+402+402    | 383+383+402+402       | 383+402+402+402    | 402+402+402+402                                     | 402+402+402+402    |                   | 402+402+402+402       | 402+402+402+402    | 402+402+402+402    | 402+402+402+402    | 402+402+402+402       | 402+402+402+402     | 402+402+402+402    |               |               |
| Noise                            | Cooling rating                                                    | SPL    | dB(A)                                               | 67                 | 67                    | 68                 | 68                                                  | 68                 | 68                | 68                    | 68                 | 68                 | 69                 | 70                    | 70                  | 70                 |               |               |
|                                  |                                                                   | (Full- |                                                     |                    |                       |                    |                                                     |                    |                   |                       |                    |                    |                    |                       |                     |                    |               |               |
|                                  | Night shift mode (noise reduction setting)                        | SPL    | dB(A)                                               | 63                 | 64                    | 65                 | 65                                                  | 66                 | 66                | 66                    | 66                 | 66                 | 66                 | 66                    | 66                  | 66                 |               |               |
|                                  |                                                                   | (Full- |                                                     |                    |                       |                    |                                                     |                    |                   |                       |                    |                    |                    |                       |                     |                    |               |               |
| Compressor                       | Compressor type                                                   | -      | Hermetic(Scroll)                                    | Hermetic(Scroll)   | Hermetic(Scroll)      | Hermetic(Scroll)   | Hermetic(Scroll)                                    | Hermetic(Scroll)   |                   | Hermetic(Scroll)      | Hermetic(Scroll)   | Hermetic(Scroll)   | Hermetic(Scroll)   | Hermetic(Scroll)      | Hermetic(Scroll)    | Hermetic(Scroll)   |               |               |
| Outdoor unit Fan                 | Rated air volume                                                  | m3/    | 348+348+348+348                                     | 348+348+348+375    | 348+348+375+375       | 348+375+375+375    | 375+375+375+375                                     | 375+375+375+375    |                   | 375+375+375+375       | 375+375+375+375    | 375+375+375+375    | 375+375+375+405    | 375+375+405+405       | 375+405+405+405     | 405+405+405+405    |               |               |
|                                  | Number of Fan Motors                                              | -      | 2+2+2+2                                             | 2+2+2+2            | 2+2+2+2               | 2+2+2+2            | 2+2+2+2                                             | 2+2+2+2            |                   | 2+2+2+2               | 2+2+2+2            | 2+2+2+2            | 2+2+2+2            | 2+2+2+2               | 2+2+2+2             | 2+2+2+2            |               |               |
|                                  | Motor output                                                      | kW     | (0.47×2)×4                                          | 0.58×2+(0.47×2)×3  | (0.58×2)×2+(0.47×2)×2 | (0.58×2)×3+0.47×2  | (0.58×2)×4                                          | 0.58×2+(0.58×2)×3  |                   | (0.58×2)×2+(0.58×2)×2 | (0.58×2)×3+0.58×2  | (0.58×2)×4         | 0.71×2+(0.58×2)×3  | (0.71×2)×2+(0.58×2)×2 | (0.71×2)×3+(0.58×2) | (0.71×2)×4         |               |               |
| Main pipe size                   | Gas piping                                                        | mm     | 50.8                                                | 54                 | 54                    | 54                 | 54                                                  | 54                 |                   | 54                    | 54                 | 54                 | 54                 | 54                    | 54                  | 54                 |               |               |
|                                  | Liquid piping                                                     | mm     | 25.4                                                | 25.4               | 25.4                  | 25.4               | 25.4                                                | 25.4               |                   | 25.4                  | 25.4               | 25.4               | 28.58              | 28.58                 | 28.58               | 28.58              |               |               |
|                                  | Tubing connection method                                          | -      | Brazing connection                                  | Brazing connection | Brazing connection    | Brazing connection | Brazing connection                                  | Brazing connection |                   | Brazing connection    | Brazing connection | Brazing connection | Brazing connection | Brazing connection    | Brazing connection  | Brazing connection |               |               |
| Operating temperature range      |                                                                   |        | °C DB                                               | -5°C~52°C          | -5°C~52°C             | -5°C~52°C          | -5°C~52°C                                           | -5°C~52°C          | -5°C~52°C         | -5°C~52°C             | -5°C~52°C          | -5°C~52°C          | -5°C~52°C          | -5°C~52°C             | -5°C~52°C           | -5°C~52°C          |               |               |
| Maximum External static pressure |                                                                   |        | Pa                                                  | 80                 | 80                    | 80                 | 80                                                  | 80                 | 80                | 80                    | 80                 | 80                 | 80                 | 80                    | 80                  | 80                 |               |               |
| Maximum Total piping length      |                                                                   |        | m                                                   | 1,000              | 1,000                 | 1,000              | 1,000                                               | 1,000              | 1,000             | 1,000                 | 1,000              | 1,000              | 1,000              | 1,000                 | 1,000               | 1,000              |               |               |
| Refrigerent                      | Type -                                                            |        | R410A                                               | R410A              | R410A                 | R410A              | R410A                                               | R410A              |                   | R410A                 | R410A              | R410A              | R410A              | R410A                 | R410A               | R410A              |               |               |
|                                  | Initial charge amount kg                                          | kg     | 46.4                                                | 46.4               | 46.4                  | 46.4               | 46.4                                                | 46.4               |                   | 46.4                  | 46.4               | 46.4               | 46.4               | 46.4                  | 46.4                | 46.4               |               |               |
|                                  | Refrigerant Maximum additional charge amount k                    | kg     | 184                                                 | 194                | 204                   | 214                | 224                                                 | 224                |                   | 224                   | 224                | 224                | 224                | 224                   | 224                 | 224                |               |               |
|                                  | Refrigerant control mode -                                        | -      | Microcomputer-controlled electronic expansion valve |                    |                       |                    | Microcomputer-controlled electronic expansion valve |                    |                   |                       |                    |                    |                    |                       |                     |                    |               |               |
| Refrigerant oil                  | Type                                                              | -      | FVC68D                                              | FVC68D             | FVC68D                | FVC68D             | FVC68D                                              | FVC68D             |                   | FVC68D                | FVC68D             | FVC68D             | FVC68D             | FVC68D                | FVC68D              | FVC68D             |               |               |
|                                  | Charge amount                                                     | L      | 33.6                                                | 33.6               | 33.6                  | 33.6               | 33.6                                                | 33.6               |                   | 33.6                  | 33.6               | 33.6               | 33.6               | 33.6                  | 33.6                | 33.6               |               |               |
| With Indoor Unit                 | Connected capacity ratio                                          | %      | 50~150%                                             | 50~150%            | 50~150%               | 50~150%            | 50~150%                                             | 50~150%            |                   | 50~150%               | 50~150%            | 50~150%            | 50~150%            | 50~150%               | 50~150%             | 50~150%            |               |               |
|                                  | Maximum Number of connectable units (recommended number of units) | -      | 64 (38)                                             | 64 (38)            | 64 (38)               | 64 (38)            | 64 (38)                                             | 64 (38)            |                   | 64 (38)               | 64 (38)            | 64 (38)            | 64 (38)            | 64 (38)               | 64 (38)             | 64 (38)            |               |               |
|                                  | Connectable minimum capacity                                      | -      | 0.6HP class                                         | 0.6HP class        | 0.6HP class           | 0.6HP class        | 0.6HP class                                         | 0.6HP class        |                   | 0.6HP class           | 0.6HP class        | 0.6HP class        | 0.6HP class        | 0.6HP class           | 0.6HP class         | 0.6HP class        |               |               |



# Option

## 1) Piping Connection Kit

\*For Heat Pump (2 Pipes)

| Model name | Applicable Outdoor Unit |              | Remarks                       |
|------------|-------------------------|--------------|-------------------------------|
|            | Combined X modules      | air365 Max   |                               |
| MC-NP21SA1 | 2                       | 30 to 48 HP  | for Gas : 1<br>for Liquid : 1 |
| MC-NP22TA  |                         | 50 to 56 HP  |                               |
| MC-NP31TA  | 3                       | 58 to 84 HP  | for Gas : 2<br>for Liquid : 2 |
| MC-NP40TA  | 4                       | 86 to 112 HP | for Gas : 3<br>for Liquid : 3 |

## 2) Multi-Kit

\*For Heat Pump (2 Pipes)

Line branch

(First branch)

| Model Name  | Outdoor Unit HP |
|-------------|-----------------|
| MW-NP282A3  | 8 , 10          |
| MW-NP452A3  | 12 to 16        |
| MW-NP692A3  | 18 to 24        |
| MW-NP902A3  | 26 to 54        |
| MW-NP2682A3 | 56 to 112       |

(After First Branch)

| Model Name  | Total Indoor Unit HP |
|-------------|----------------------|
| MW-NP282A3  | < 11.99              |
| MW-NP452A3  | 12 to 17.99          |
| MW-NP692A3  | 18 to 25.99          |
| MW-NP902A3  | 26 to 55.99          |
| MW-NP2682A3 | ≥ 56                 |



A smiling woman with long dark hair, wearing a blue blazer over a light-colored shirt, is talking on a mobile phone. She is holding a black suitcase handle in her right hand. The background is a blurred indoor setting with warm lighting.

# Indoor units

## Comfort first

Give each space its own indoor unit. Our wide range of units can meet any type of requirement and space layout, and seamlessly integrate with interiors.

With seamless and quiet operation, your customers can relax and enjoy the air while using only the amount energy needed. Advanced functions such as GentleCool and AutoBoost allow you to customize the air in each space to suit your customers' preferences, while smart design minimizes the need for maintenance.

### 57 PRODUCT DETAIL

|    |                             |
|----|-----------------------------|
| 57 | <b>Ceiling cassettes</b>    |
| 57 | Silent-Iconic™              |
| 59 | 4 Way cassette              |
| 61 | 4 Way compact cassette      |
| 63 | 2 Way cassette              |
| 65 | 1 Way cassette              |
| 67 | <b>In-the-ceiling units</b> |
| 67 | In-the-ceiling              |
| 68 | In-the-ceiling (Duct type)  |
| 69 | <b>Others</b>               |
| 69 | Floor concealed             |
| 70 | Floor/Ceiling convertible   |
| 71 | Hi wall                     |

### 73 SPECIFICATIONS

# Choice for perfect indoor experience

| Indoor Unit Category       |                             | HP                                                                                  |     |     |     |     |     |     |     |     |
|----------------------------|-----------------------------|-------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
|                            |                             | 0.8                                                                                 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 4.0 | 5.0 | 6.0 |
| Ceiling Cassette           | 4 way cassette              |    | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   |
|                            | Silent-Iconic™              |    | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   |
|                            | 4 way compact cassette      |    | ✓   | ✓   | ✓   | ✓   |     |     |     |     |
|                            | 2 way cassette              |    | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   |
|                            | 1 way cassette*             |  |     | ✓   |     | ✓   | ✓   |     |     |     |
| In-The-Ceiling & Concealed | In-the-ceiling              |  | ✓   | ✓   | ✓   | ✓   |     |     |     |     |
|                            | In-the-ceiling (Duct type)* |  | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   |
|                            | Floor concealed             |  | ✓   | ✓   | ✓   | ✓   |     |     |     |     |
| Exposed                    | Floor/Ceiling convertible   |  |     |     | ✓   | ✓   | ✓   | ✓   | ✓   |     |
|                            | Hi wall**                   |  | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   |     |     |

\*1 Way Cassette also available in 1.3 HP and 1.6 HP.  
\*Product images shown are for reference only and data can be changed without prior notice.  
\*In-The-Ceiling (Duct type) high static models are available in 8,10,12,16 & 20 HP.  
\*\*Hi Wall unit is available in 1.3 HP.

# Key information

## Ceiling Cassette



**Silent-Iconic™**

- The indoor air conditioning unit that makes a statement without making “noise”
- Individual 4 way louver control
- Drop down grille up to 4m



**4 way cassette**

- Individual 4 way louver control
- Motion Sensor technology (optional)
- Higher ceiling installation (up to 5.5m in cooling mode)



**4 way compact cassette**

- Compact grid 600X600mm
- Quieter operation (as low as 24.5 dB(A))
- Higher ceiling installation (up to 4.6m in cooling mode)



**2 way cassette**

- Individual louver option
- Motion Sensor technology (optional)
- Higher ceiling installation (up to 4.6m in cooling mode)



**1 way cassette**

- Compact size: Height- 192mm & Depth - 470mm
- Quiet operation (as low as 27 dB(A))
- Max. drainage height up to 1200mm

## In-The-Ceiling & Concealed



**In-the-ceiling**

- Ease of installation with 192mm height
- Compact width starting from 700mm



**In-the-ceiling (Duct type)**

- Broad range of ESP up to 50 Pa with long and short duct variants.
- Ease of installation and flexible duct connection
- Higher CFM
- Flexible mirror installation for hotel application



**Floor concealed**

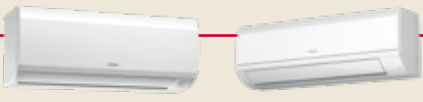
- Compact height up to 620mm
- Can be hidden away without ceiling void

## Exposed



**Floor/Ceiling convertible**

- Easy installation
- It can be mounted on floor or suspended in ceiling as per the choice and space availability.



**Hi wall**

- iClean+ technology
- Motion Sensor technology
- Wide range of capacity from 0.8 HP to 4 HP



# Silent-Iconic™

4-Way Cassette Design Panel

A design panel in harmony with the space that responds to the needs of architectural designers



**reddot** winner 2021  
best of the best

[Silent-iconic] receives Red Dot: Best of the Best  
for ground-breaking design quality



iF Design Award 2020  
Award Winning  
(Discipline: Product)



GOOD DESIGN AWARD 2020  
(Category: Equipment and facilities for professional use)

Tomohiko Sato

Hitachi, Ltd. Product Design Department, Senior Designer

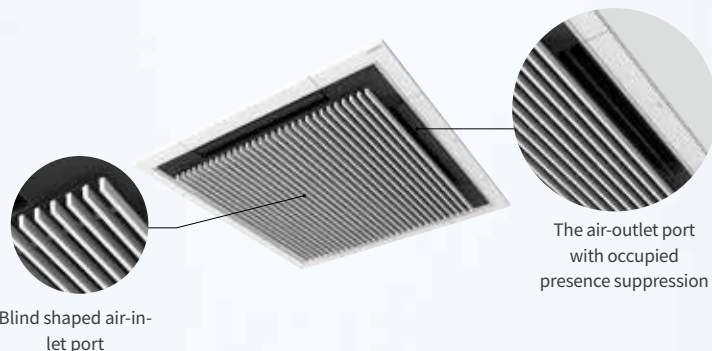


The designer graduated from University in the United Kingdom and soon after, he joined a London based design studio, working across a wide variety of disciplines including furniture, interior and the public realm. Currently, he dedicates himself to air conditioning design, working as a Senior Designer in the Hitachi product design department in Hitachi, Ltd.



The design is well-matched to the space

It is designed to harmonize with the space by creating the central part to be a blind shaped air-inlet port and reducing its occupied presence by darkening the air-outlet port.

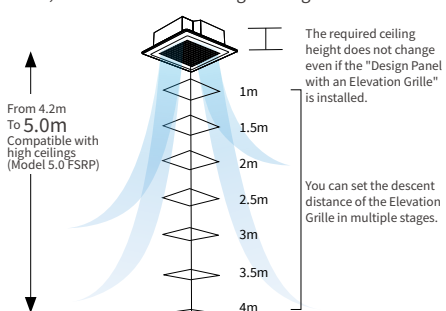


Blind shaped air-inlet port

The air-outlet port with occupied presence suppression

## It is easy to clean the filter

It is easy to clean the filter by using the "Design Panel with an Elevation Grille". The lifting distance is up to 4m and, it can be installed for high ceilings.



## 1. Scan the QR code<sup>17</sup> and open the web page

Display the web page with a QR code, URL, etc.



## 2. Tap the icon

Tap the icon displayed at the bottom right of the 3D Viewer. If the icon is not displayed, please unhide it in Safari or check the OS version.



## 3. AR mode is activated

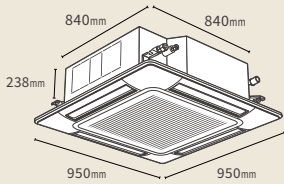
Hold out the camera toward the ceiling and get it to detect the environment by moving it in a circular motion. You may not be able to scan a single-colored ceiling so scan a place where objects such as downlights or ceiling ventilation fans are installed.



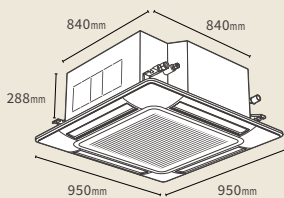
## 4. Adjustment of placement location

You can shift then move it with a single finger, and rotate or zoom it out/zoom it in with two fingers to adjust the size that fits the space. There is also a capture button, so you can take and share the pictures you have placed.

# 4 way cassette



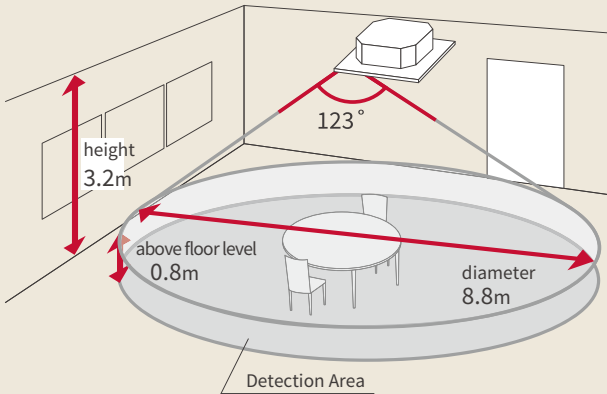
1.0~2.5 HP



3.0~6.0 HP

## Motion Sensor technology

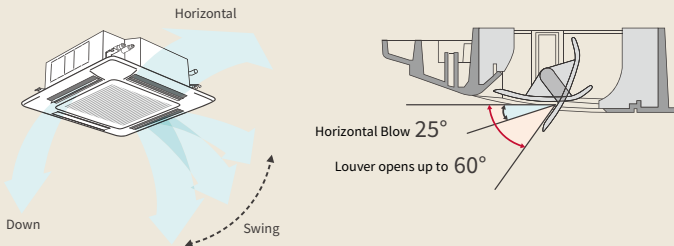
Motion Sensor technology comes with the ability to ensure you get equal attention for equal cooling comfort and enjoy higher energy savings. It identifies the number of people and directs airflow as per the requirement. In case of human absence, the sensor automatically switches the AC off, reducing wastage of energy.



\* Motion Sensor detecting area dimension  
7.0m = 1.0-3.0FSKDNQ  
8.8m = 4.0-6.0FSKDNQ  
\* Motion Sensor is an optional feature (PS-MSK2) with use of Advanced Wired Controller (PC-ARF/ PC-ARF1)

## Individual 4 way louver control

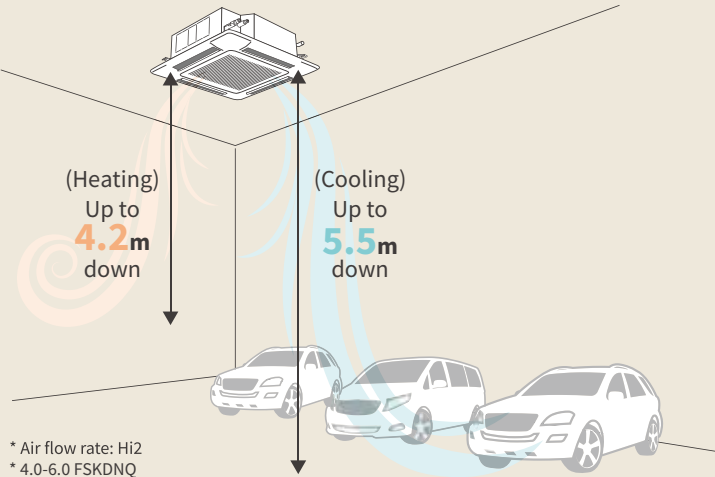
Have control of the airflow with 4 way individual louver. It's louver can be adjusted as per the requirement in each zone and the wastage of air to a dead zone can also be avoided.



\* This feature is compatible with wired remote controller (PC-ARF/ PC-ARF1/ HCWA10NEGQ)

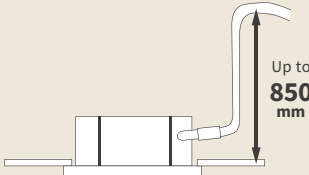
## Engineered for high ceiling space

Hitachi's Cassette AC are engineered to place at higher ceiling space such as car showroom space, banquets, and more.

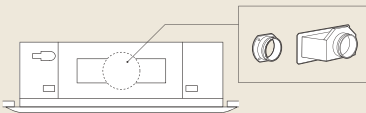


\* Air flow rate: Hi2  
\* 4.0-6.0 FSKDNQ

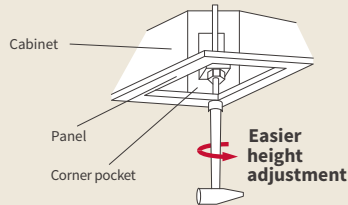
## Standard drain pump with 850 mm lift



## Direct attachment of round-ducts available



## Easy fine-tune for installment height

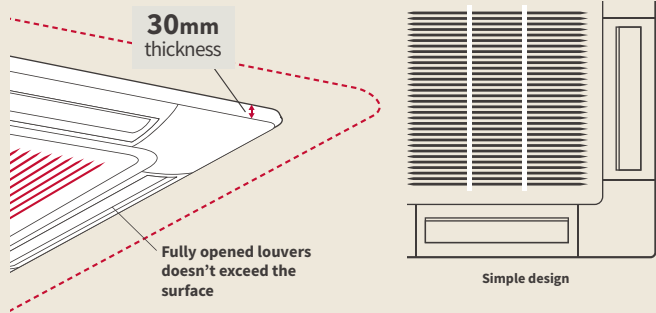




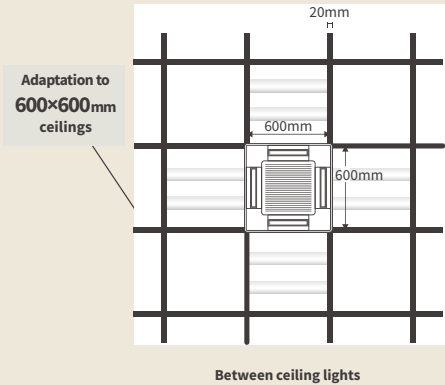
# 4 way compact cassette



## Stylishly modern

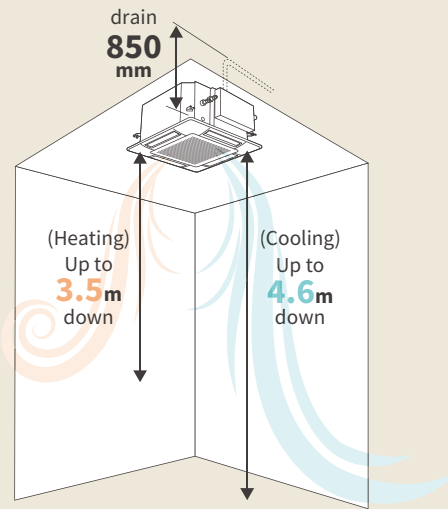


## Compact design



## Engineered for high ceiling space

Hitachi's Compact Cassette AC are engineered to place at higher ceiling space such as car showroom space, banquets, and more. It comes with standard drain pump of 850mm lift.



\* Air flow rate: Hi2  
\* 2.0-2.5 FSRE

## Antibacterial drain pan

Adopting new antibacterial agent of drain pan for cleaner air and ease of maintenance.



## Silent operation

| IDU Capacity HP(Class)       | 1    | 1.5  | 2  | 2.5 |
|------------------------------|------|------|----|-----|
| Sound pressure level (dB(A)) | 24.5 | 27.5 | 31 | 35  |

\* Air flow rate: Low

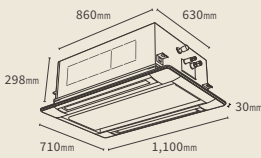
20dB(A) CLOCK

30dB(A) MIDNIGHT

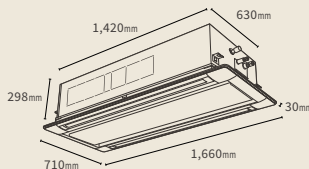
40dB(A) LIBRARY



2 way cassette



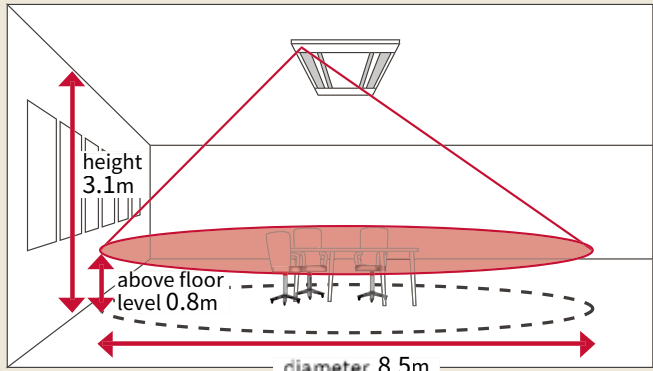
0.8~3.0 HP



4.0~6.0 HP

Motion Sensor technology

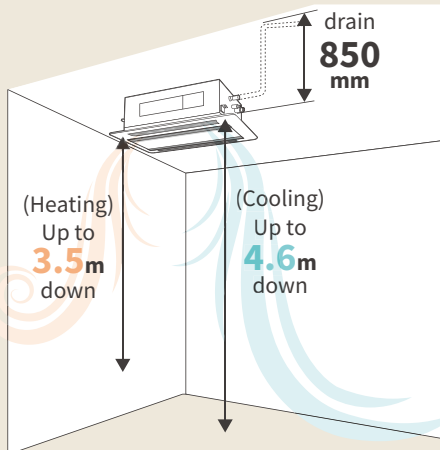
Motion Sensor technology comes with the ability to ensure you get equal attention for equal cooling comfort and enjoy higher energy savings. It identifies the number of people and directs airflow as per the requirement. In case of human absence, the sensor automatically switches the AC off, reducing wastage of energy.



\* Motion Sensor is an optional feature (SOR-NED) with use of advanced wired controller (PC-ARF/ PC-ARF1)

Engineered for high ceiling space

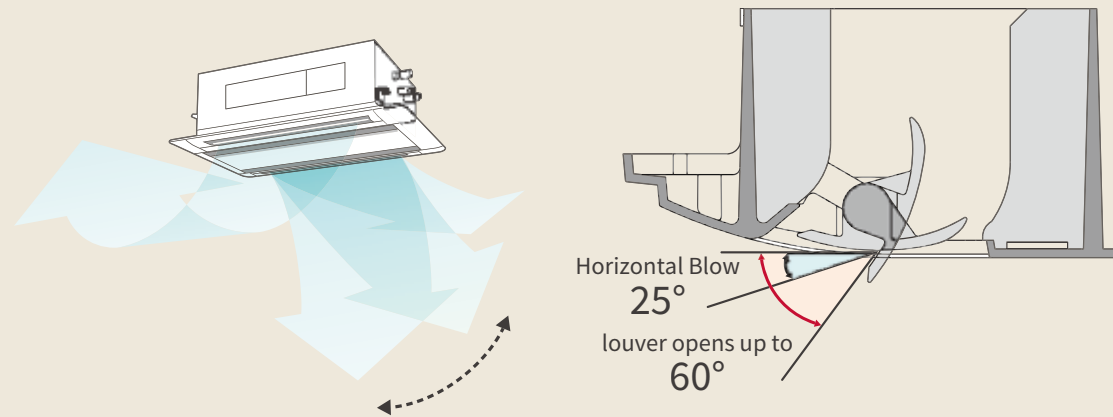
Hitachi's 2 Way Cassette AC is engineered to place at higher ceiling space such as car showroom space, banquets, and more. It comes with standard drain pump with 850mm lift.



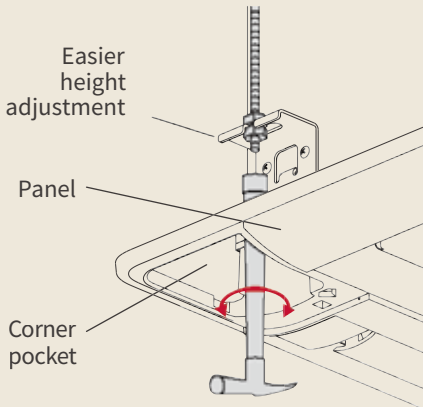
\* Air flow rate: Hi2  
\* 2.0-6.0 FSN3

Individual louver control

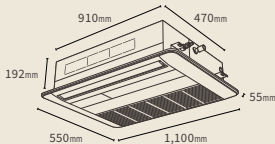
Have control of the airflow with Individual louver. Its louver can be adjusted as per the requirement in each zone and the wastage of air to a dead zone can also be avoided.



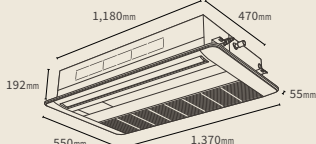
Easy fine-tune for installment height



# 1 way cassette



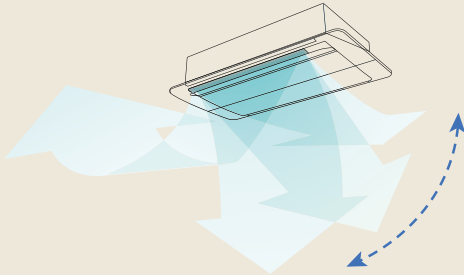
1.0~1.6 HP



2.0~2.5 HP

## 3D air flow

3 directional air flow with broad air deflector design to have adjustable wind direction as per your need for a comfortable environment.

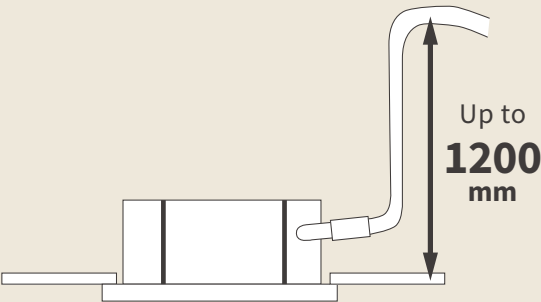


## Sleek and compact design



## Standard drain pump

Standard equipped drain pump with maximum drainage height up to 1200mm



## Silent operation

| IDU capacity HP(Class)       | 1  | 1.3 | 1.6 | 2  | 2.5 |
|------------------------------|----|-----|-----|----|-----|
| Sound pressure level (dB(A)) | 27 | 28  | 30  | 31 | 32  |

\*Air flow rate: Low

20dB(A)  
CLOCK

30dB(A)  
MIDNIGHT

40dB(A)  
LIBRARY

## Adjustable air speed

Adoption of the efficient DC motor and the optimized duct design assure the smooth air flow.

## Fresh air provision (Optional)

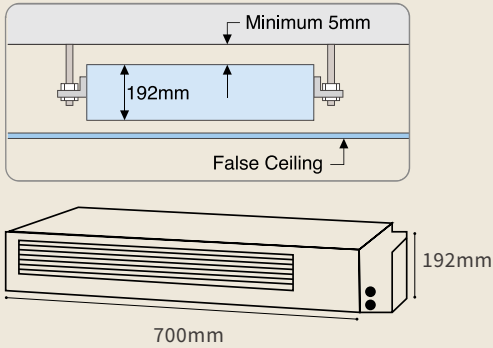
The unit can introduce fresh air from the external environment. With the filter facility, the air quality is guaranteed.

# In-the-ceiling

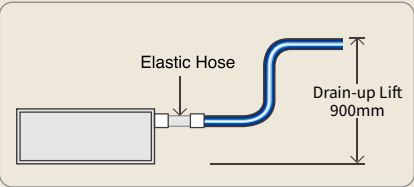


**Drain-up mechanism as standard part**  
Drain-up lift achieves 900mm, which enables convenient drain piping and increases the flexibility of installation.

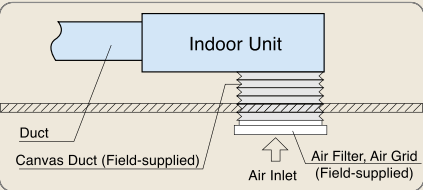
**Space saving installation**  
192mm in height, low height residential ceilings pose no problem in installation. Low width starting of 700mm makes this model suitable for installation in limited spaces in hotels.



\*For 1 HP model



**Designed for customised installations**  
The air inlet is available as rear or bottom entry, which gives the consumers the option to choose relevant air inlet mode according to the practical installation space.



(Installation Diagram of Air Bottom Inlet)

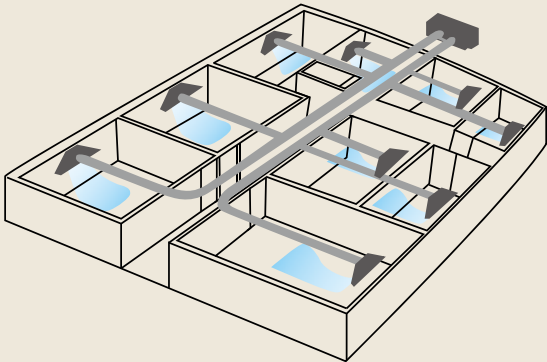
# In-the-ceiling (Duct type)



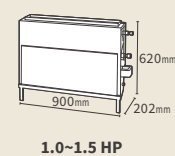
**Broad range of external static pressure**  
At 20-50 Pa, installation options comes in both long duct and short duct variants.

**Flexibility in installation**  
Flexible installation with both LHS and RHS installation provisions. Suitable for any mirror application installation in hotels, villas, etc. (available in 1.0, 1.5, & 2.0 HP models)

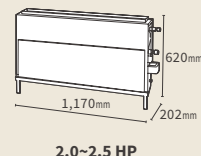
**Connect multiple rooms**  
Flexibility to connect multiple rooms with single IDU when there is lesser space available.



## Floor concealed



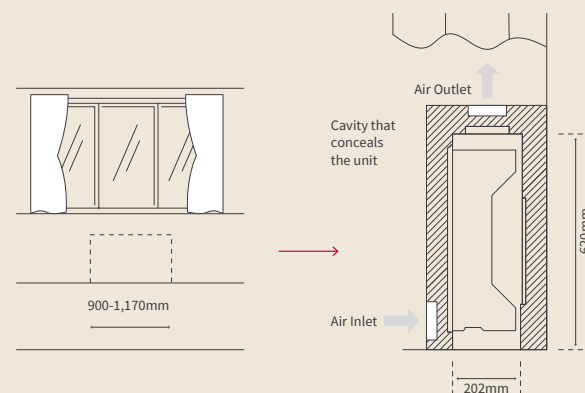
1.0~1.5 HP



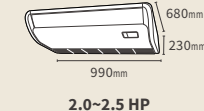
2.0~2.5 HP

### Design flexibility

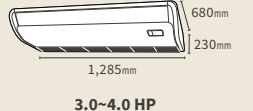
- Blends unobtrusively with any interior décor, only the suction and discharge grilles are visible
- Its low height (only 620mm) enables the unit to fit perfectly beneath a window
- Requires little installation space thanks to its slim 202mm depth



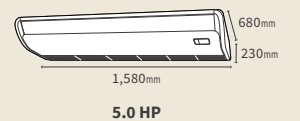
## Floor/Ceiling convertible



2.0~2.5 HP



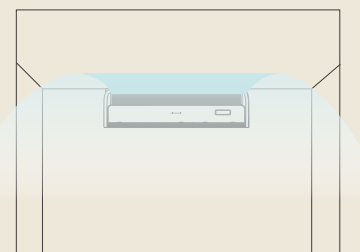
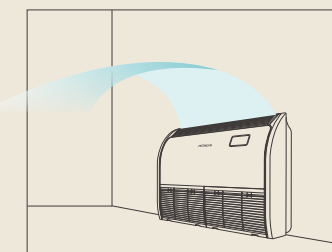
3.0~4.0 HP



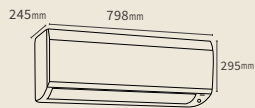
5.0 HP

### Installation on floor or ceiling

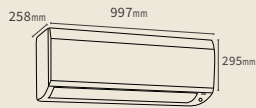
- When performance and practicality are a priority, convertible units are a functional solution
- Suitable for creating a calming and comfortable atmosphere in small to medium-sized spaces
- Each unit can be floor mounted or ceiling suspended
- Installation is simple and straight forward



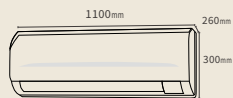
Hi wall



0.8~1.5 HP



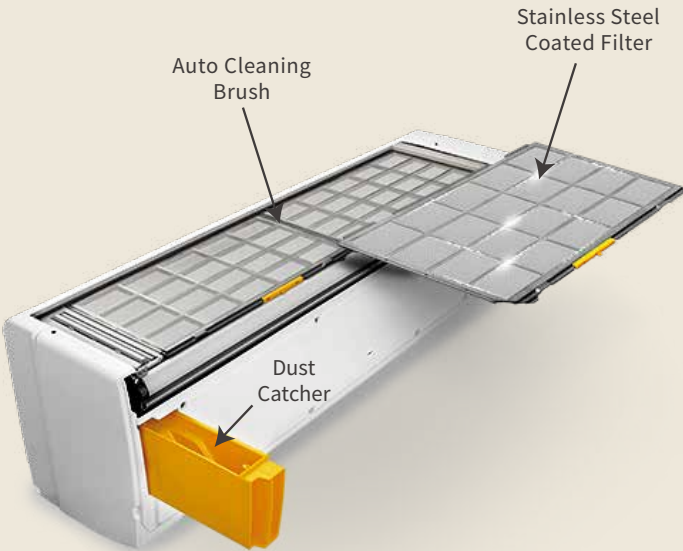
1.5~2.5 HP



3.0~4.0 HP

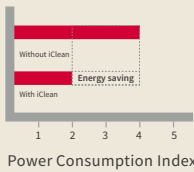
iClean+ technology

The revolutionary Auto Filter Cleaning technology in Hitachi Air Conditioners cleans the stainless steel coated filter of the AC automatically every 12 hours of cumulative running. The auto cleaning brush moves twice over the dust catcher to increase dust transfer capacity and ensures filter becomes dust free. Thus, the air coming from the AC is always clean and fresh.

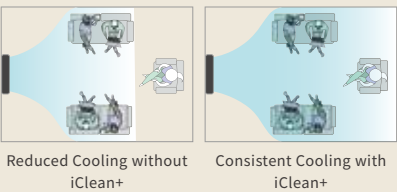


Benefits

Ever efficient

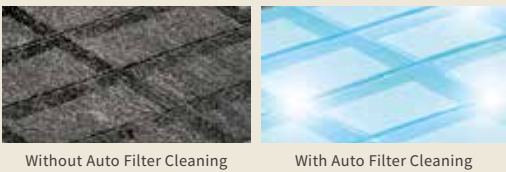


Ever powerful



Ever clean

Dust on filter after a few days

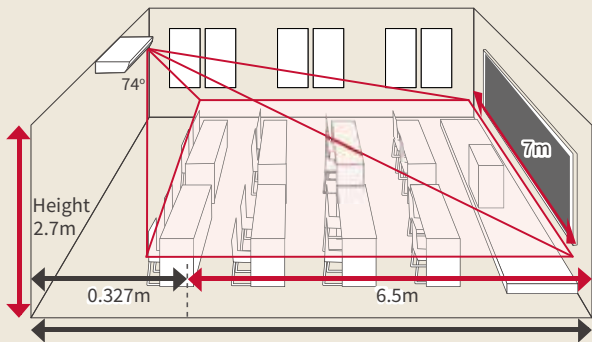


\*Available in Hi-Wall iClean+ unit only

Motion Sensor technology

Motion Sensor technology comes with the ability to ensure you get equal attention for equal cooling comfort and enjoy higher energy savings. It identifies the number of people and directs airflow as per the requirement. In case of human absence, the sensor automatically switches the AC off, reducing wastage of energy. Motion Sensor technology is available in RPK-FSNK1/2

Motion Sensor Technology to achieve better energy saving



# Specifications

## 4 way cassette

| Model                                 |                              | RCI-1.0FSKDN1Q                         | RCI-1.5FSKDN1Q  | RCI-2.0FSKDN1Q  | RCI-2.5FSKDN1Q  | RCI-3.0FSKDN1Q  | RCI-4.0FSKDN1Q  | RCI-5.0FSKDN1Q    | RCI-6.0FSKDN1Q    |                   |
|---------------------------------------|------------------------------|----------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|-------------------|-------------------|
| Indoor Unit Power Supply              |                              | AC 1Φ, 220-240 V / 50 Hz               |                 |                 |                 |                 |                 |                   |                   |                   |
| Nominal Cooling Capacity*1            |                              | KW                                     | 2.8             | 4.0             | 5.6             | 7.1             | 8.0             | 11.2              | 14.0              | 16.0              |
| Nominal Heating Capacity*2            |                              | KW                                     | 3.2             | 4.8             | 6.3             | 8.5             | 9.0             | 12.5              | 16.0              | 18.0              |
| Sound Pressure Level*3 (Hi2/Hi/Me/Lo) |                              | dB(A)                                  | 33/30/28/27     | 35/31/30/27     | 37/32/30/27     | 42/36/32/28     | 42/36/32/28     | 48/43/39/33       | 48/45/40/35       | 48/46/41/37       |
| Outer Dimensions                      | Height                       | mm                                     | 238             | 238             | 238             | 238             | 288             | 288               | 288               | 288               |
|                                       | Width                        | mm                                     | 840             | 840             | 840             | 840             | 840             | 840               | 840               | 840               |
|                                       | Depth                        | mm                                     | 840             | 840             | 840             | 840             | 840             | 840               | 840               | 840               |
| Net Weight                            |                              | kg                                     | 20              | 21              | 21              | 22              | 26              | 26                | 26                | 26                |
| Refrigerant                           |                              | R410A                                  |                 |                 |                 |                 |                 |                   |                   |                   |
| Indoor Fan                            | Air Flow Rate (Hi2/Hi/Me/Lo) | m³/min.                                | 15/13/11/9      | 21/17/14/11     | 22/17/14/11     | 27/23/18/14     | 27/23/18/14     | 37/31/24/20       | 37/33/26/21       | 37/35/28/22       |
|                                       |                              | cfm                                    | 530/459/388/318 | 741/600/494/388 | 777/600/494/388 | 953/812/635/494 | 953/812/635/494 | 1306/1095/847/706 | 1306/1165/918/741 | 1306/1235/989/777 |
| Motor Output                          |                              | W                                      | 57              | 57              | 57              | 57              | 57              | 127               | 127               | 127               |
| Connections                           |                              | Flare-Nut Connection (with Flare Nuts) |                 |                 |                 |                 |                 |                   |                   |                   |
| Refrigerant Piping                    | Liquid Line                  | mm                                     | Φ6.35           | Φ6.35           | Φ6.35           | Φ9.52           | Φ9.52           | Φ9.52             | Φ9.52             | Φ9.52             |
|                                       | Gas Line                     | mm                                     | Φ12.7           | Φ12.7           | Φ12.7           | Φ15.88          | Φ15.88          | Φ15.88            | Φ15.88            | Φ15.88            |
|                                       | Condensate Drain             | VP25                                   |                 |                 |                 |                 |                 |                   |                   |                   |
| Decoration Panel                      |                              | Included                               |                 |                 |                 |                 |                 |                   |                   |                   |
| Color                                 |                              | Neutral White                          |                 |                 |                 |                 |                 |                   |                   |                   |
| Outer Dimensions (H X W X D)          |                              | mm                                     | 40 X 950 X 950  |                 |                 |                 |                 |                   |                   |                   |
| Net Weight                            |                              | kg                                     | 6.5             |                 |                 |                 |                 |                   |                   |                   |

## 1 way cassette

| Model                                            |                                         | RCIS-1.0FSKDNQ                         | RCIS-1.3FSKDNQ          | RCIS-1.6FSKDNQ          | RCIS-2.0FSKDNQ          | RCIS-2.5FSKDNQ           |
|--------------------------------------------------|-----------------------------------------|----------------------------------------|-------------------------|-------------------------|-------------------------|--------------------------|
| Indoor Unit Power Supply                         |                                         | AC 1Φ, 220-240 V / 50 Hz               |                         |                         |                         |                          |
| Nominal Cooling Capacity*1                       | KW                                      | 2.8                                    | 3.6                     | 4.5                     | 5.6                     | 7.1                      |
| Nominal Heating Capacity*2                       | KW                                      | 3.2                                    | 4.0                     | 5.0                     | 6.3                     | 8.0                      |
| Sound Pressure Level*3 (Hi2/Hi/Me/Lo/Slo/Silent) | dB (A)                                  | 32/31/30/29/28/27                      | 37/35/34/32/30/28       | 41/37/34/33/31/30       | 40/38/35/33/32/31       | 46/42/40/37/34/32        |
| Outer Dimensions                                 | Height                                  | mm                                     | 192                     | 192                     | 192                     | 192                      |
|                                                  | Width                                   | mm                                     | 910                     | 910                     | 910                     | 1180                     |
|                                                  | Depth                                   | mm                                     | 470                     | 470                     | 470                     | 470                      |
| Net Weight                                       | Kg                                      | 19                                     | 20                      | 20                      | 24                      | 24                       |
| Refrigerant                                      |                                         | R410A                                  |                         |                         |                         |                          |
| Indoor Fan                                       | Air Flow Rate (Hi2/Hi/Me/Lo/Slo/Silent) | m³/min                                 | 6.6/6.2/5.6/5.1/4.8/4.6 | 8.3/7.3/6.8/6.2/5.6/5.1 | 10/8.3/6.8/6.3/5.7/5.2  | 12.1/9.9/8.8/8.2/7.8/6.6 |
|                                                  |                                         | cfm                                    | 233/219/198/180/169/162 | 293/258/240/219/198/180 | 353/293/240/222/201/183 | 427/350/311/290/275/233  |
| Motor Output                                     | W                                       | 33                                     | 33                      | 33                      | 57                      | 57                       |
| Connections                                      |                                         | Flare-Nut Connection (with Flare Nuts) |                         |                         |                         |                          |
| Refrigerant Piping                               | Liquid Line                             | mm                                     | Φ6.35                   | Φ6.35                   | Φ6.35                   | Φ9.53                    |
|                                                  | Gas Line                                | mm                                     | Φ12.7                   | Φ12.7                   | Φ12.7                   | Φ15.88                   |
|                                                  | Condensate Drain                        |                                        | VP25                    |                         |                         |                          |
| Decoration Panel                                 |                                         | Included                               |                         | Included                |                         |                          |
| Color                                            |                                         | Neutral White                          |                         | Neutral White           |                         |                          |
| Outer Dimensions (H X W X D)                     | mm                                      | 55 X 1100 X 550                        |                         | 55 X 1370 X 550         |                         |                          |
| Net Weight                                       | Kg                                      | 5.0                                    |                         | 6.0                     |                         |                          |

Notes for RCI-FSKDNQ, RCIM-FSN4, RCIS-FSKDNQ & RCD-FSR:  
\*1 & \*2. The cooling and heating capacities shown in the table are based on following conditions:  
Cooling Operation Conditions: Indoor Air Inlet Temperature: 27° C DB, 19° C WB. Outdoor Air Inlet Temperature: 35° C DB.  
Heating Operation Conditions: Indoor Air Inlet Temperature: 20° C DB. Outdoor Air Inlet Temperature: 7° C DB , 6° C WB.  
Piping Length: 7.5 meters. Piping Lift: 0 meter.

## 4 way compact cassette

| Model                                 |                              |         | RCIM-1.0FSRE                           | RCIM-1.5FSRE    | RCIM-2.0FSRE    | RCIM-2.5FSRE    |
|---------------------------------------|------------------------------|---------|----------------------------------------|-----------------|-----------------|-----------------|
| Indoor Unit Power Supply              |                              |         | AC 1Φ, 220-240 V / 50 Hz               |                 |                 |                 |
| Nominal Cooling Capacity*1            |                              | KW      | 2.8                                    | 4.0             | 5.6             | 7.1             |
| Nominal Heating Capacity*2            |                              | KW      | 3.2                                    | 4.8             | 6.3             | 8.5             |
| Sound Pressure Level*3 (Hi2/Hi/Me/Lo) |                              | dB(A)   | 38/34/30/24.5                          | 41/37/33/27.5   | 45/39/35/31     | 47/43/39/35     |
| Outer Dimensions                      | Height                       | mm      | 285                                    | 285             | 285             | 285             |
|                                       | Width                        | mm      | 570                                    | 570             | 570             | 570             |
|                                       | Depth                        | mm      | 570                                    | 570             | 570             | 570             |
| Net Weight                            |                              | kg      | 16                                     | 16              | 17              | 17              |
| Refrigerant                           |                              |         | R410A                                  |                 |                 |                 |
| Indoor Fan                            | Air Flow Rate (Hi2/Hi/Me/Lo) | m³/min. | 12/10/8.5/6                            | 13/11/9.5/7     | 15/12/10/8      | 16/14/12/10     |
|                                       |                              | cfm     | 424/353/300/212                        | 459/388/335/247 | 530/424/353/282 | 565/494/424/353 |
| Motor Output                          |                              | W       | 57                                     | 57              | 57              | 57              |
| Connections                           |                              |         | Flare-Nut Connection (with Flare Nuts) |                 |                 |                 |
| Refrigerant Piping                    | Liquid Line                  | mm      | Φ6.35                                  | Φ6.35           | Φ6.35           | Φ9.52           |
|                                       | Gas Line                     | mm      | Φ12.7                                  | Φ12.7           | Φ12.7           | Φ15.88          |
|                                       | Condensate Drain             |         | VP25                                   |                 |                 |                 |
| Decoration Panel                      |                              |         | P-AP56NAM (without motion sensor)      |                 |                 |                 |
| Color                                 |                              |         | Neutral White                          |                 |                 |                 |
| Outer Dimensions (H X W X D)          |                              | mm      | 30 X 620 X 620                         |                 |                 |                 |
| Net Weight                            |                              | kg      | 2.5                                    |                 |                 |                 |

## 2 way cassette

| Model                                 |                              | RCD-0.8FSR                             | RCD-1.0FSR      | RCD-1.5FSR      | RCD-2.0FSR      | RCD-2.5FSR                          | RCD-3.0FSR          | RCD-4.0FSR      | RCD-5.0FSR        | RCD-6.0FSR          |
|---------------------------------------|------------------------------|----------------------------------------|-----------------|-----------------|-----------------|-------------------------------------|---------------------|-----------------|-------------------|---------------------|
| Indoor Unit Power Supply              |                              | AC 1Φ, 220-240 V / 50 Hz               |                 |                 |                 |                                     |                     |                 |                   |                     |
| Nominal Cooling Capacity*1            | KW                           | 2.2                                    | 2.8             | 4.0             | 5.6             | 7.1                                 | 8.0                 | 11.2            | 14.0              | 16.0                |
| Nominal Heating Capacity*2            | KW                           | 2.5                                    | 3.2             | 4.8             | 6.3             | 8.5                                 | 9.0                 | 12.5            | 16.0              | 18.0                |
| Sound Pressure Level*3 (Hi2/Hi/Me/Lo) | dB(A)                        | 30/29/28/27                            | 31/29/28/27     | 37/34/31/30     | 39/36/33/30     | 42/39/36/33                         | 45/42/38/33         | 43/40/37/34     | 47/44/41/35       | 48/45/42/39         |
| Outer Dimensions                      | Height                       | mm                                     | 298             | 298             | 298             | 298                                 | 298                 | 298             | 298               | 298                 |
|                                       | Width                        | mm                                     | 860             | 860             | 860             | 860                                 | 860                 | 1,420           | 1,420             | 1,420               |
|                                       | Depth                        | mm                                     | 630             | 630             | 630             | 630                                 | 630                 | 630             | 630               | 630                 |
| Net Weight                            | kg                           | 23                                     | 23              | 25              | 25              | 25                                  | 25                  | 39              | 39                | 39                  |
| Refrigerant                           |                              | R410A                                  |                 |                 |                 |                                     |                     |                 |                   |                     |
| Indoor Fan                            | Air Flow Rate (Hi2/Hi/Me/Lo) | m³/min.                                | 10/9/7.5/6.5    | 11/9.5/8.5/7    | 15/13/11.5/10   | 16.5/14.5/12.5/10.5                 | 18.5/16.5/14.5/12.5 | 21/18.5/16/12.5 | 30/26.5/23/20     | 35/31/27/21         |
|                                       |                              | cfm                                    | 353/318/265/230 | 388/335/300/247 | 530/459/406/353 | 583/512/441/371                     | 653/583/512/441     | 742/653/565/441 | 1,059/936/812/706 | 1,236/1,095/953/742 |
| Motor                                 | W                            | 57                                     | 57              | 57              | 57              | 57                                  | 57                  | 57 x 2          | 57 x 2            | 57 x 2              |
| Connections                           |                              | Flare-Nut Connection (with Flare Nuts) |                 |                 |                 |                                     |                     |                 |                   |                     |
| Refrigerant Piping                    | Liquid Line                  | mm                                     | Φ6.35           | Φ6.35           | Φ6.35           | Φ6.35                               | Φ9.52               | Φ9.52           | Φ9.52             | Φ9.52               |
|                                       | Gas Line                     | mm                                     | Φ12.7           | Φ12.7           | Φ12.7           | Φ12.7                               | Φ15.88              | Φ15.88          | Φ15.88            | Φ15.88              |
|                                       | Condensate Drain             |                                        | VP25            |                 |                 |                                     |                     |                 |                   |                     |
| Decoration Panel                      |                              | P-AP90DNA (for RCD- [0.8-3.0] FSR)     |                 |                 |                 | P-AP160DNA (for RCD- [4.0-6.0] FSR) |                     |                 |                   |                     |
| Color                                 |                              | Neutral White                          |                 |                 |                 | Neutral White                       |                     |                 |                   |                     |
| Outer Dimensions (H X W X D)          | mm                           | 30 X 1100 X 710                        |                 |                 |                 | 30 X 1660 X 710                     |                     |                 |                   |                     |
| Net Weight                            | kg                           | 7.5                                    |                 |                 |                 | 10.5                                |                     |                 |                   |                     |

Notes for RCI-FSKDNQ, RCIM-FSN4, RCIS-FSKDNQ & RCD-FSR:  
\*3. The sound pressure level is based on following conditions:  
1.5 meters beneath the unit. The data's mentioned in table was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Floor/Ceiling convertible

| Model                                |                          |        | RPFC-2.0FSNQ                           | RPFC-2.5FSNQ | RPFC-3.0FSNQ   | RPFC-4.0FSNQ   | RPFC-5.0FSNQ |
|--------------------------------------|--------------------------|--------|----------------------------------------|--------------|----------------|----------------|--------------|
| Indoor Unit Power Supply             |                          |        | AC 1Φ, 220-240 V / 50 Hz               |              |                |                |              |
| Nominal Cooling Capacity*1           |                          | KW     | 5.6                                    | 7.1          | 8.4            | 11.2           | 14.2         |
| Nominal Heating Capacity*2           |                          | KW     | 6.5                                    | 8.5          | 9.6            | 13.0           | 16.3         |
| Sound Pressure Level*4<br>(Hi/Me/Lo) | Ceiling                  |        | 39/35/30                               | 45/41/37     | 43/39/34       | 51/46/40       | 50/46/42     |
|                                      | Floor                    |        | 43/38/35                               | 48/44/40     | 46/41/37       | 54/49/43       | 55/50/46     |
| Outer Dimensions                     | Height                   | mm     | 230                                    | 230          | 230            | 230            | 230          |
|                                      | Width                    | mm     | 990                                    | 990          | 1,285          | 1,285          | 1,580        |
|                                      | Depth                    | mm     | 680                                    | 680          | 680            | 680            | 680          |
| Net Weight                           |                          | kg     | 31                                     | 32           | 39             | 41             | 47           |
| Refrigerant                          |                          |        | R410A                                  |              |                |                |              |
| Indoor Fan                           | Air Flow Rate (Hi/Me/Lo) | m³/min | 13/11/9                                | 16.1/14/11.3 | 18.2/15.2/12.2 | 24.8/20.5/16.3 | 33/28/23     |
|                                      |                          | cfm    | 459/388/318                            | 568/494/399  | 643/537/431    | 876/724/576    | 1165/989/812 |
| Motor Output                         |                          | W      | 40                                     | 70           | 70             | 130            | 160          |
| Connections                          |                          |        | Flare-Nut Connection (with Flare Nuts) |              |                |                |              |
| Refrigerant Piping                   | Liquid Line              | mm     | Φ6.35                                  | Φ9.53        | Φ9.53          | Φ9.53          | Φ9.53        |
|                                      | Gas Line                 | mm     | Φ15.88                                 | Φ15.88       | Φ15.88         | Φ15.88         | Φ15.88       |
|                                      | Condensate Drain         |        | VP25                                   |              |                |                |              |

Hi wall

| Model                                        |                                     | RPK-0.8FSNK2         | RPK-1.0FSNK2                           | RPK-1.3FSNK2                 | RPK-1.5FSNK2                | RPK-2.0FSNK2                | RPK-2.5FSNK2                 | RPK-1.5FSNK1                   | RPK-2.0FSNK1                 | RPK-2.5FSNK1                 | RPK-3.0FSRM                    | RPK-4.0FSRM               |                         |  |
|----------------------------------------------|-------------------------------------|----------------------|----------------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|--------------------------------|------------------------------|------------------------------|--------------------------------|---------------------------|-------------------------|--|
| Indoor Unit Power Supply                     |                                     | AC 1Φ, 230 V / 50 Hz |                                        |                              |                             |                             |                              |                                |                              |                              |                                |                           |                         |  |
| Nominal Cooling Capacity*1                   |                                     | KW                   | 2.2                                    | 2.8                          | 3.6                         | 4.0                         | 5.6                          | 7.1                            | 4.0                          | 5.6                          | 7.1                            | 8.0                       | 11.2                    |  |
| Nominal Heating Capacity*2                   |                                     | KW                   | 2.6                                    | 3.2                          | 4.2                         | 4.8                         | 6.3                          | 8.5                            | 4.8                          | 6.3                          | 8.5                            | 9.0                       | 12.5                    |  |
| Sound Pressure Level*3<br>(Hi2/Hi/Me/Lo/Slo) |                                     | dB (A)               | 40/38/<br>36/34/32                     | 43/40/<br>37/35/33           | 45/40/<br>37/35/33          | 45/40/<br>37/35/33          | 48/45/<br>42/39/35           | 49/46/<br>43/40/36             | 45/42/<br>39/37/35           | 48/45/<br>42/39/35           | 49/46/<br>43/40/36             | 47/44/<br>40/35           | 51/48/<br>44/39         |  |
| Outer Dimensions                             | Height                              | mm                   | 295                                    | 295                          | 295                         | 295                         | 295                          | 295                            | 295                          | 295                          | 295                            | 300                       | 300                     |  |
|                                              | Width                               | mm                   | 798                                    | 798                          | 798                         | 798                         | 997                          | 997                            | 997                          | 997                          | 997                            | 1100                      | 1100                    |  |
|                                              | Depth                               | mm                   | 245                                    | 245                          | 245                         | 245                         | 258                          | 258                            | 258                          | 258                          | 258                            | 260                       | 260                     |  |
| Net Weight                                   |                                     | Kg                   | 10.0                                   | 10.0                         | 10.0                        | 10.0                        | 13.5                         | 13.5                           | 13.5                         | 13.5                         | 13.5                           | 15.0                      | 15.0                    |  |
| Refrigerant                                  |                                     |                      | R410A                                  |                              |                             |                             |                              |                                |                              |                              |                                |                           |                         |  |
| Indoor Fan                                   | Air Flow Rate<br>(Hi2/Hi/Me/Lo/Slo) | m³/min               | 9.8/9.1/<br>8.5/7.8/<br>7.1            | 10.5/9.8/<br>8.5/8.0/<br>7.3 | 12/10.7/<br>9.3/8.8/<br>8   | 12/10.7/<br>9.3/8.8/<br>8   | 16.6/15/<br>13.5/11.5/<br>10 | 19/17.2/<br>15.4/13.1/<br>11.4 | 15/13.5/<br>11.5/10.7/<br>10 | 16.6/15/<br>13.5/11.5/<br>10 | 19/17.2/<br>15.4/13.1/<br>11.4 | 20/17.5/<br>15.5/<br>12.5 | 23/20/<br>17.5/<br>14.5 |  |
|                                              |                                     | cfm                  | 346/321/<br>300/275/<br>250            | 371/346/<br>300/282/<br>258  | 424/378/<br>328/311/<br>282 | 424/378/<br>328/311/<br>282 | 586/530/<br>477/406/<br>353  | 671/607/<br>544/462/<br>403    | 530/477/<br>406/378/<br>353  | 586/530/<br>477/406/<br>353  | 671/607/<br>544/462/<br>403    | 706/618/<br>547/<br>441   | 812/706/<br>618/<br>512 |  |
| Motor Output                                 |                                     | W                    | 18                                     | 18                           | 18                          | 18                          | 30                           | 30                             | 30                           | 30                           | 30                             | 38                        | 38                      |  |
| Connections                                  |                                     |                      | Flare-Nut Connection (with Flare Nuts) |                              |                             |                             |                              |                                |                              |                              |                                |                           |                         |  |
| Refrigerant Piping                           | Liquid Line                         | mm                   | Φ6.35                                  | Φ6.35                        | Φ6.35                       | Φ6.35                       | Φ6.35                        | Φ9.52                          | Φ6.35                        | Φ6.35                        | Φ9.52                          | Φ9.52                     | Φ9.52                   |  |
|                                              | Gas Line                            | mm                   | Φ12.7                                  | Φ12.7                        | Φ12.7                       | Φ12.7                       | Φ15.88                       | Φ15.88                         | Φ12.7                        | Φ15.88                       | Φ15.88                         | Φ15.88                    | Φ15.88                  |  |
| iClean Function                              |                                     |                      | No                                     | No                           | No                          | No                          | No                           | No                             | Yes                          | Yes                          | Yes                            | No                        | No                      |  |

Notes for RPFC-FSNQ, RPIZ-HNATN1Q, RPK-FSNK2/FSNK1/FSRM & RPIL-FSNK/FSNK3:  
1\*1 & \*2. The cooling and heating capacities shown in the table are based on following conditions:  
Cooling Operation Conditions: Indoor Air Inlet Temperature: 27° C DB, 19° C WB. Outdoor Air Inlet Temperature: 35° C DB.  
Heating Operation Conditions: Indoor Air Inlet Temperature: 20° C DB. Outdoor Air Inlet Temperature: 7° C DB , 6° C WB.  
Piping Length: 7.5 meters. Piping Lift: 0 meter.

In-the-ceiling

| Model                                |                          |        | RPIZ-1.0HNATN1Q                        | RPIZ-1.5HNATN1Q | RPIZ-2.0HNATN1Q | RPIZ-2.5HNATN1Q |
|--------------------------------------|--------------------------|--------|----------------------------------------|-----------------|-----------------|-----------------|
| Indoor Unit Power Supply             |                          |        | AC 1Φ, 220-240V / 50 Hz                |                 |                 |                 |
| Nominal Cooling Capacity*1           |                          | KW     | 2.8                                    | 4.0             | 5.6             | 7.1             |
| Nominal Heating Capacity*2           |                          | KW     | 3.2                                    | 4.5             | 6.3             | 8.0             |
| Sound Pressure Level*3 *5 (Hi/Me/Lo) |                          |        | 30/23/20                               | 32.5/26/23      | 34/26/25        | 37/29/27        |
| Outer Dimensions                     | Height                   | mm     | 192                                    | 192             | 192             | 192             |
|                                      | Width                    | mm     | 700                                    | 910             | 1180            | 1180            |
|                                      | Depth                    | mm     | 447                                    | 447             | 447             | 447             |
| Net Weight                           |                          | Kg     | 17.0                                   | 20.0            | 25.0            | 25.0            |
| Refrigerant                          |                          |        | R410A                                  |                 |                 |                 |
| Indoor Fan                           | Air Flow Rate (Hi/Me/Lo) | m³/min | 9.5/6.5/5.5                            | 10/7/6          | 15/10/9         | 17/10/9         |
|                                      |                          | cfm    | 335/230/194                            | 353/247/212     | 530/353/318     | 600/353/318     |
| External Static Pressure*6           |                          | Pa     | 10(30)                                 | 10(30)          | 10(30)          | 10(30)          |
| Motor Output                         |                          | W      | 28                                     | 28              | 45              | 60              |
| Connections                          |                          |        | Flare-Nut Connection (with Flare Nuts) |                 |                 |                 |
| Refrigerant Piping                   | Liquid Line              | mm     | Φ6.35                                  | Φ6.35           | Φ6.35           | Φ9.53           |
|                                      | Gas Line                 | mm     | Φ12.7                                  | Φ12.7           | Φ15.88          | Φ15.88          |

In-the-ceiling

| Model*7                              |                          |        | RPIL1.0FSNK3/K4                        | RPIL-1.5FSNK3/K4 | RPIL2.0FSNK3/K4 | RPIL2.0FSNK  | RPIL2.5FSNK | RPIL3.0FSNK  | RPIM4.0FSNK   | RPIM5.0FSNK    | RPIM6.0FSNK    |
|--------------------------------------|--------------------------|--------|----------------------------------------|------------------|-----------------|--------------|-------------|--------------|---------------|----------------|----------------|
| Indoor Unit Power Supply             |                          |        | AC 1Φ, 230 V / 50 Hz                   |                  |                 |              |             |              |               |                |                |
| Nominal Cooling Capacity*1           |                          | KW     | 2.8                                    | 4.3              | 5.6             | 5.6          | 7.1         | 8.4          | 11.2          | 14.0           | 16.0           |
| Nominal Heating Capacity*2           |                          | KW     | 3.3                                    | 4.9              | 6.3             | 6.3          | 8.5         | 9.0          | 12.5          | 16.0           | 18.0           |
| Sound Pressure Level*3 *5 (Hi/Me/Lo) |                          | dB (A) | 32/30/28                               | 36/34/32         | 37/35/33        | 36/34/31     | 37/34/32    | 40/37/33     | 52/49/47      | 55/52/50       | 57/54/52       |
| Outer Dimensions                     | Height                   | mm     | 280                                    | 280              | 280             | 280          | 280         | 280          | 385           | 385            | 385            |
|                                      | Width                    | mm     | 800                                    | 800              | 800             | 1130         | 1130        | 1130         | 1190          | 1190           | 1190           |
|                                      | Depth                    | mm     | 535                                    | 535              | 535             | 535          | 535         | 535          | 675           | 675            | 675            |
| Net Weight                           |                          | Kg     | 28.0                                   | 28.0             | 28.0            | 31.0         | 32.0        | 32.0         | 63.0          | 65.0           | 67.0           |
| Refrigerant                          |                          |        | R410A                                  |                  |                 |              |             |              |               |                |                |
| Indoor Fan                           | Air Flow Rate (Hi/Me/Lo) | m³/min | 10/8/7                                 | 13/11/9          | 15/13/11        | 18.4/15.7/14 | 23/20/15.6  | 28/24/20     | 33/31/28      | 45/41/37.5     | 56/52/48       |
|                                      |                          | cfm    | 353/282/247                            | 459/388/317      | 529/459/388     | 650/550/500  | 800/700/550 | 1000/850/700 | 1200/1100/990 | 1600/1460/1325 | 1977/1836/1695 |
| External Static Pressure             |                          | Pa     | 19                                     | 19               | 19              | 19           | 19          | 19           | 49            | 49             | 60             |
| Motor Output                         |                          | W      | 24                                     | 24               | 24              | 50           | 50          | 50           | 220           | 220            | 630            |
| Connections                          |                          |        | Flare-Nut Connection (with Flare Nuts) |                  |                 |              |             |              |               |                |                |
| Refrigerant Piping                   | Liquid Line              | mm     | Φ6.35                                  | Φ6.35            | Φ6.35           | Φ6.35        | Φ9.52       | Φ9.52        | Φ9.52         | Φ9.52          | Φ9.52          |
|                                      | Gas Line                 | mm     | Φ12.7                                  | Φ12.7            | Φ15.88          | Φ15.88       | Φ15.88      | Φ15.88       | Φ15.88        | Φ15.88         | Φ15.88         |

Notes for RPFC-FSNQ, RPIZ-HNATN1Q, RPK-FSNK2/FSNK1/FSN4M & RPIL-FSNK/FSNK3:  
The sound pressure level is based on following conditions:  
\*3. 1.5 meters beneath the unit. \*4. 1 meter from the unit & 1 meter from the floor level.  
The data's mentioned in the table was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.  
\*5 When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode & the room structure.  
\*6 The data for external pressure indicates standard pressure setting values when air filter is not used. Suction filter is not included as standard supply.  
\*7. More Models RPIL1.0FSNK4, RPIL1.5FSNK4, RPIL2.0FSNK4 are available with left hand side installation provision.

In-the-ceiling (Duct type - High static)

| MODEL                           |                          |        | RPI8.0FSNK1         | RPI10FSNK1     | RPIH12FSNK     | RPI16FSNK      | RPI20FSNK           | RPI16FSNK1      | RPI20FSNK1      |
|---------------------------------|--------------------------|--------|---------------------|----------------|----------------|----------------|---------------------|-----------------|-----------------|
| Indoor Unit Power Supply        |                          |        | AC 1Φ, 230V / 50 HZ |                |                |                | AC 3Ø, 415V / 50 HZ |                 |                 |
| Nominal Cooling Capacity        |                          | KW     | 22.4                | 28.0           | 33.5           | 45.0           | 56.0                | 45.0            | 56.0            |
| Nominal Heating Capacity        |                          | KW     | 25.0                | 31.5           | 37.5           | 50.0           | 63.0                | 50.0            | 63.0            |
| Sound Pressure Level (Hi/Me/Lo) |                          | dB (A) | 62/59/57            | 64/61/59       | 65/62/60       | 66/63/60       | 68/65/62            | 68.0            | 72.0            |
| Outer Dimensions                | Height                   | mm     | 440                 | 440            | 440            | 550            | 550                 | 1550(V)/725(H)  | 1550(V)/725(H)  |
|                                 | Width                    | mm     | 1550                | 1550           | 1550           | 2040           | 2040                | 1550(V)/1550(H) | 1550(V)/1550(H) |
|                                 | Depth                    | mm     | 675                 | 675            | 675            | 1085           | 1085                | 800(V)/1615(H)  | 800(V)/1615(H)  |
| Net Weight                      |                          | Kg     | 81.0                | 81.0           | 83.0           | 191.0          | 194.0               | 250.0           | 253.0           |
| Refrigerant                     |                          |        | R410A               |                |                |                |                     |                 |                 |
| Indoor Fan                      | Air Flow Rate (Hi/Me/Lo) | m³/min | 85/77.6/70          | 96/87.5/80     | 105/96/88      | 150/142/135    | 170/162/154         | 166             | 186             |
|                                 |                          | cfm    | 3000/2740/2480      | 3400/3100/2810 | 3700/3390/3100 | 5300/5010/4760 | 6000/5720/5440      | 5860            | 6560            |
| External Static Pressure        |                          | Pa     | 78                  | 78             | 78             | 100            | 100                 | 150             | 150             |
| Motor Output                    |                          | W      | 630                 | 630            | 900            | 550 (3)        | 550 (3)             | 3000            | 3000            |
| Connections                     |                          |        | BRAZING CONNECTION  |                |                |                |                     |                 |                 |
| Refrigerant Piping              | Liquid Line              | mm     | Φ 9.52              | Φ 9.52         | Φ 12.7         | Φ 12.7         | Φ 15.88             | Φ 12.7          | Φ 15.88         |
|                                 | Gas Line                 | mm     | Φ 19.05             | Φ 22.22        | Φ 25.4         | Φ 28.58        | Φ 28.58             | Φ 28.58         | Φ 28.58         |

Floor concealed

| Model                               |                        |        | RPFI-1.0FSNQ                           | RPFI-1.5FSNQ | RPFI-2.0FSNQ   | RPFI-2.5FSNQ |
|-------------------------------------|------------------------|--------|----------------------------------------|--------------|----------------|--------------|
| Indoor Unit Power Supply            |                        |        | AC 1Φ, 230 V / 50 Hz                   |              |                |              |
| Nominal Cooling Capacity*1          |                        | KW     | 2.8                                    | 4.3          | 5.6            | 7.1          |
| Nominal Heating Capacity*2          |                        | KW     | 3.3                                    | 4.9          | 6.5            | 8.5          |
| Sound Pressure Level*3 (Hi/ Me/ Lo) |                        | dB (A) | 37/34/31                               | 40/38/35     | 42/38/36       | 45/43/40     |
| Outer Dimensions                    | Height                 | mm     | 620                                    | 620          | 620            | 620          |
|                                     | Width                  | mm     | 900                                    | 900          | 1170           | 1170         |
|                                     | Depth                  | mm     | 202                                    | 202          | 202            | 202          |
| Net Weight                          |                        | Kg     | 25                                     | 26           | 34             | 34           |
| Refrigerant                         |                        |        | R410A                                  |              |                |              |
| Indoor Fan                          | Air Flow Rate Hi/Me/Lo | m³/min | 8.0/7.0/6.0                            | 10/8.0/7.0   | 14.5/12.5/10.5 | 16/14/12     |
|                                     |                        | cfm    | 282/247/212                            | 353/282/247  | 512/441/371    | 565/494/424  |
| Motor Output                        |                        | W      | 20                                     | 35           | 40             | 50           |
| Connection                          |                        |        | Flare-Nut Connection (with Flare Nuts) |              |                |              |
| Refrigerant Piping                  | Liquid Line            | mm     | Φ6.35                                  | Φ6.35        | Φ6.35          | Φ9.53        |
|                                     | Gas Line               | mm     | Φ12.7                                  | Φ12.7        | Φ15.88         | Φ15.88       |
|                                     | Condensate Drain       |        | VP 25                                  | VP 25        | VP 25          | VP 25        |

Notes for RPFI-FSNQ:  
1\*1 & \*2. The cooling and heating capacities shown in the table are based on following conditions:  
Cooling Operation Conditions: Indoor Air Inlet Temperature: 27° C DB, 19°C WB. Outdoor Air Inlet Temperature: 35°C DB.  
Heating Operation Conditions: Indoor Air Inlet Temperature: 20° C DB. Outdoor Air Inlet Temperature: 7°C DB , 6°C WB.  
Piping Length: 7.5 meters. Piping Lift: 0 meter.  
\*3. The sound pressure level is based on following conditions:  
1.5 meters from the unit and 1.5 meters from floor level. The data's mentioned in the table was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Silent-Iconic™

| Model                                   |                              |        | RCI-1.0FSRP                 | RCI-1.5FSRP     | RCI-2.0FSRP     | RCI-2.5FSRP     | RCI-3.0FSRP     | RCI-4.0FSRP       | RCI-5.0FSRP       | RCI-6.0FSRP       |
|-----------------------------------------|------------------------------|--------|-----------------------------|-----------------|-----------------|-----------------|-----------------|-------------------|-------------------|-------------------|
| Indoor Unit Power Supply                |                              |        | AC 1Φ, 220-240V / 50 Hz     |                 |                 |                 |                 |                   |                   |                   |
| Nominal Cooling Capacity                | KW                           |        | 2.8                         | 4.0             | 5.6             | 7.1             | 8.0             | 11.2              | 14.0              | 16.0              |
| Nominal Heating Capacity                | KW                           |        | 3.2                         | 4.8             | 6.3             | 8.5             | 9.0             | 12.5              | 16.0              | 18.0              |
| Sound Pressure Level (Hi2/Hi/Me/Lo)     | dB (A)                       |        | 33/30/28/27                 | 35/31/30/27     | 37/32/30/28     | 43/37/33/29     | 41/36/32/30     | 49/44/39/33       | 49/46/41/35       | 49/47/43/37       |
| Outer Dimensions                        | Height                       | mm     | 248                         | 248             | 248             | 248             | 298             | 298               | 298               | 298               |
|                                         | Width                        | mm     | 840                         | 840             | 840             | 840             | 840             | 840               | 840               | 840               |
|                                         | Depth                        | mm     | 840                         | 840             | 840             | 840             | 840             | 840               | 840               | 840               |
| Net Weight                              |                              |        | Kg                          | 20              | 21              | 21              | 22              | 26                | 26                | 26                |
| Refrigerant                             |                              |        | R410A                       |                 |                 |                 |                 |                   |                   |                   |
| Indoor Fan                              | Air Flow Rate (Hi2/Hi/Me/Lo) | m³/min | 15/13/11/9                  | 20/16/14/11     | 22/17/14/12     | 27/21/18/14     | 27/23/18/15     | 36/31/24/20       | 37/33/26/21       | 37/35/28/22       |
|                                         |                              | cfm    | 530/459/388/318             | 706/565/494/388 | 777/600/494/424 | 953/741/635/494 | 953/812/635/529 | 1271/1095/847/706 | 1306/1165/918/741 | 1306/1235/989/777 |
| Refrigerant Piping                      | Liquid Line                  | mm     | Φ6.35                       | Φ6.35           | Φ6.35           | Φ9.52           | Φ9.52           | Φ9.52             | Φ9.52             | Φ9.52             |
|                                         | Gas Line                     | mm     | Φ12.7                       | Φ12.7           | Φ12.7           | Φ15.88          | Φ15.88          | Φ15.88            | Φ15.88            | Φ15.88            |
|                                         | Condensate Drain             | mm     | VP25                        |                 |                 |                 |                 |                   |                   |                   |
| Cassette Air Panel (Silent Iconic Type) |                              |        | P-GP160NAPU (Optional Item) |                 |                 |                 |                 |                   |                   |                   |
| Panel Dimensions (H X W X D)            |                              |        | 52 x 950 x 950              |                 |                 |                 |                 |                   |                   |                   |
| Panel Net Weight                        |                              |        | Kg 10                       |                 |                 |                 |                 |                   |                   |                   |
| Compatible Wired Remote Controller      |                              |        | PC-ARFG 1-A (Optional Item) |                 |                 |                 |                 |                   |                   |                   |

Notes for RCI-FSRP:  
The above cooling and heating capacities show the maximum capacities when the outdoor and indoor temperatures are below condition.  
Cooling Operation Conditions:  
Indoor Air Inlet Temperature: 27°C DB 19°C WB, Outdoor Air Inlet temperature 35°C DB  
Heating Operation Conditions:  
Indoor Air Inlet Temperature: 20°C DB, Outdoor Air Inlet temperature:7°C DB 6°C WB  
Pipe length:7.5 meters; Pipe lift: 0 meter  
The sound pressure level is based on following conditions  
1.5 Meters Beneath the Unit. The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field  
\* Wireless remote is not compatible..



# Ventilation

## Improve indoor air quality

Today, the average person spends more than 75% of their day indoors. Without proper ventilation, CO2 levels rise, pollutants circulate and potentially harmful bacterias build-up, impacting on the wellbeing, comfort and productivity of occupants. Make these spaces as healthy and comfortable as possible by connecting our ventilation solutions into your Hitachi VRF systems.

|    |                         |
|----|-------------------------|
| 81 | OUR VENTILATION LINE-UP |
| 83 | VENTILATION SOLUTIONS   |
| 83 | All fresh air unit      |
| 84 | Total heat exchanger    |
| 85 | DX-KIT                  |



# Our ventilation line-up

Our line-up fulfils the ventilation requirements of the desired space by drawing in clean air from the outside and replenishing indoor spaces. It features solutions that suit every type of building; you can use the ventilation technology as it is or it can be incorporated into a Hitachi indoor unit via the fresh-air port. Thanks to our ventilation options, you can optimize the design of your system to meet your needs.

## ALL FRESH AIR UNIT



- Creates a comfortable and healthy indoor environment, thanks to the fresh air and heat/cool functions.
- Various controllers can be selected and interfaced with the H-LINK system.
- Longer ducts can be connected on-site, thanks to the higher ESP.

## TOTAL HEAT EXCHANGER



- Creates a healthy indoor environment thanks to the fresh air and ventilation functions.
- Every unit is equipped with a remote controller for the total heat exchanger as a standard part.

From 150 to 6,000m<sup>3</sup>/h

| Fan Air Flow Rate (m³/h) | 150 | 200 | 210 | 230 | 300 | 400 | 500 | 550 | 650 | 700 | 800 | 1,000 | 1,080 | 1,250 | 1,500 | 1,680 | 2,000 | 2,100 | 2,500 | 3,000 | 4,000 | 5,000 | 6,000 |
|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| All Fresh Air Unit       |     |     |     |     |     |     |     |     |     |     |     |       | ●     |       |       | ●     |       | ●     |       | ●     | ●     | ●     | ●     |
| Total Heat Exchanger     | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ●     |       | ●     | ●     |       | ●     |       | ●     | ●     | ●     | ●     |       |

## Extra air-renewal solution offerings

We offer two additional options to meet both occupants' needs and your building's requirements.



### DX-KIT

- Offers great flexibility by enabling you to integrate Hitachi VRF into your building's existing air handling units (AHU).
- Wide capacity range (available up to 96HP AHU).
- Wide configuration options with AHU/Indoor units.

### FRESH-AIR INTAKE PORT

- Optional duct adapter which enables fresh air into the unit so that it can be blown out with conditioned air.
- Connects with the indoor units: 4-way cassette type, 4-way compact cassette type, 2-way cassette type, 1-way cassette type.



Ventilation solutions



All fresh air unit

| Model                                  |                  | RPI-5.0KFNQ                                  |                             | RPI-8.0KFNQ                |                        | RPI-10.0KFNQ               |                        | RPI-12.0KFNQ               |                        |       |
|----------------------------------------|------------------|----------------------------------------------|-----------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|-------|
| Power Supply                           |                  | AC 1Φ<br>220-240V/<br>50Hz                   | AC 1Φ<br>220V/<br>60Hz      | AC 1Φ<br>220-240V/<br>50Hz | AC 1Φ<br>220V/<br>60Hz | AC 1Φ<br>220-240V/<br>50Hz | AC 1Φ<br>220V/<br>60Hz | AC 3Φ<br>380-415V/<br>50Hz | AC 3Φ<br>380V/<br>60Hz |       |
| Connectable Outdoor Unit               |                  | Slim Modular VRF SideSmart™ (Heat Pump Type) |                             |                            |                        |                            |                        | RAS-120HNCEL(/R)W          |                        |       |
| Cooling                                | Capacity         | kW                                           | 14.0                        | 14.0                       | 22.4                   | 22.4                       | 28.0                   | 28.0                       | 33.5                   | 33.5  |
|                                        | Power            | kW                                           | 0.30                        | 0.35                       | 0.48                   | 0.55                       | 0.50                   | 0.58                       | 0.68                   | 0.78  |
|                                        | Nominal Current  | A                                            | 1.4                         | 1.61                       | 2.2                    | 2.53                       | 2.3                    | 2.65                       | 1.43                   | 1.64  |
| Heating                                | Capacity         | kW                                           | 13.7                        | 13.7                       | 21.9                   | 21.9                       | 24.5                   | 24.5                       | 26.8                   | 26.8  |
|                                        | Power            | kW                                           | 0.30                        | 0.35                       | 0.48                   | 0.55                       | 0.50                   | 0.58                       | 0.68                   | 0.78  |
|                                        | Nominal Current  | A                                            | 1.4                         | 1.61                       | 2.2                    | 2.53                       | 2.3                    | 2.65                       | 1.43                   | 1.64  |
| Sound Pressure Level (overall a scale) |                  | dB(A)                                        | 42                          | 42                         | 44                     | 44                         | 47                     | 47                         | 56                     | 56    |
| Dimensions H×W×D                       |                  | mm                                           | 370×1320×800                |                            | 486×1270×1069          |                            | 486×1270×1069          |                            | 486×1270×1069          |       |
| Net Weight                             |                  | kg                                           | 63                          | 63                         | 110                    | 110                        | 110                    | 110                        | 110                    | 110   |
| Refrigerant                            |                  |                                              | R410A                       | R410A                      | R410A                  | R410A                      | R410A                  | R410A                      | R410A                  | R410A |
| Air Flow Rate                          |                  | m³/<br>min                                   | 18                          | 18                         | 28                     | 28                         | 35                     | 35                         | 50                     | 50    |
| External Pressure                      |                  | Pa                                           | 200                         | 200                        | 220                    | 220                        | 220                    | 220                        | 220                    | 220   |
| Piping                                 | Liquid           | mm                                           | Φ9.53                       | Φ9.53                      | Φ9.53                  | Φ9.53                      | Φ9.53                  | Φ9.53                      | Φ12.7                  | Φ12.7 |
|                                        | Gas              | mm                                           | Φ15.88                      | Φ15.88                     | Φ19.05                 | Φ19.05                     | Φ22.2                  | Φ22.2                      | Φ25.4                  | Φ25.4 |
|                                        | Condensate Drain |                                              | VP25, Outer Diameter: Φ32mm |                            |                        |                            |                        |                            |                        |       |
| Temperature range of fresh air drawn   |                  | Cooling: 20.0℃~43.0℃, Heating: -7.0℃~15.0℃   |                             |                            |                        |                            |                        |                            |                        |       |

| Model                                  |                 |        | RPI-16.0KFNQL                              |                        | RPI-16.0KFNQH              |                        | RPI-20.0KFNQL                                           |                        | RPI-20.0KFNQH              |                        | RPI-20.0KFNQLF             |                        | RPI-20.0KFNQHF             |                        |
|----------------------------------------|-----------------|--------|--------------------------------------------|------------------------|----------------------------|------------------------|---------------------------------------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|
| Power Supply                           |                 |        | AC 3Φ<br>380-415V/<br>50Hz                 | AC 3Φ<br>380V/<br>60Hz | AC 3Φ<br>380-415V/<br>50Hz | AC 3Φ<br>380V/<br>60Hz | AC 3Φ<br>380-415V/<br>50Hz                              | AC 3Φ<br>380V/<br>60Hz | AC 3Φ<br>380-415V/<br>50Hz | AC 3Φ<br>380V/<br>60Hz | AC 3Φ<br>380-415V/<br>50Hz | AC 3Φ<br>380V/<br>60Hz | AC 3Φ<br>380-415V/<br>50Hz | AC 3Φ<br>380V/<br>60Hz |
| Connectable Outdoor Unit               |                 |        | RAS-160HNCEL(/R)W                          |                        |                            |                        | RAS-200HNCEL(R)WS, RAS-200HNCEL(R)WP, RAS-200HNCEL(R)WS |                        |                            |                        |                            |                        |                            |                        |
| Cooling                                | Capacity        | kW     | 45.0                                       | 45.0                   | 45.0                       | 45.0                   | 56.0                                                    | 56.0                   | 56.0                       | 56.0                   | 56.0                       | 56.0                   | 56.0                       | 56.0                   |
|                                        | Power           | kW     | 0.72                                       | 0.83                   | 1.06                       | 1.22                   | 1.06                                                    | 1.22                   | 1.39                       | 1.6                    | 1.39                       | 1.60                   | 1.72                       | 1.98                   |
|                                        | Nominal Current | A      | 1.8                                        | 2.07                   | 2.2                        | 2.53                   | 2.22                                                    | 2.55                   | 3.14                       | 3.61                   | 3.0                        | 3.45                   | 3.9                        | 4.45                   |
| Heating                                | Capacity        | kW     | 36.0                                       | 36.0                   | 36.0                       | 36.0                   | 44.8                                                    | 44.8                   | 44.8                       | 44.8                   | 44.8                       | 44.8                   | 44.8                       | 44.8                   |
|                                        | Power           | kW     | 0.72                                       | 0.83                   | 1.06                       | 1.22                   | 1.06                                                    | 1.22                   | 1.39                       | 1.6                    | 1.39                       | 1.60                   | 1.72                       | 1.98                   |
|                                        | Nominal Current | A      | 1.8                                        | 2.07                   | 2.2                        | 2.53                   | 2.22                                                    | 2.55                   | 3.14                       | 3.61                   | 3.0                        | 3.45                   | 3.9                        | 4.45                   |
| Sound Pressure Level (overall a scale) |                 | dB(A)  | 58                                         | 58                     | 62                         | 62                     | 61                                                      | 61                     | 65                         | 65                     | 63                         | 63                     | 67                         | 67                     |
| Dimensions H×W×D                       |                 | mm     | 635×1950×805                               |                        | 635×1950×805               |                        | 735×1950×805                                            |                        | 735×1950×805               |                        | 735×1950×805               |                        | 735×1950×805               |                        |
| Net Weight                             |                 | kg     | 196                                        | 196                    | 196                        | 196                    | 222                                                     | 222                    | 222                        | 222                    | 222                        | 222                    | 222                        | 222                    |
| Refrigerant                            |                 |        | R410A                                      | R410A                  | R410A                      | R410A                  | R410A                                                   | R410A                  | R410A                      | R410A                  | R410A                      | R410A                  | R410A                      | R410A                  |
| Air Flow Rate                          |                 | m³/min | 67                                         | 67                     | 67                         | 67                     | 83                                                      | 83                     | 83                         | 83                     | 100                        | 100                    | 100                        | 100                    |
| External Pressure                      |                 | Pa     | 200                                        | 200                    | 300                        | 300                    | 200                                                     | 200                    | 300                        | 300                    | 200                        | 200                    | 300                        | 300                    |
| Piping                                 | Liquid          | mm     | Φ12.7                                      | Φ12.7                  | Φ12.7                      | Φ12.7                  | Φ15.88                                                  | Φ15.88                 | Φ15.88                     | Φ15.88                 | Φ15.88                     | Φ15.88                 | Φ15.88                     | Φ15.88                 |
|                                        | Gas             | mm     | Φ25.4                                      | Φ25.4                  | Φ25.4                      | Φ25.4                  | Φ28.6                                                   | Φ28.6                  | Φ28.6                      | Φ28.6                  | Φ28.6                      | Φ28.6                  | Φ28.6                      | Φ28.6                  |
| Condensate Drain                       |                 |        | RC1 (Internal Screw)                       |                        |                            |                        |                                                         |                        |                            |                        |                            |                        |                            |                        |
| Temperature range of fresh air drawn   |                 |        | Cooling: 20.0℃~43.0℃, Heating: -7.0℃~15.0℃ |                        |                            |                        |                                                         |                        |                            |                        |                            |                        |                            |                        |

- Notes:
- Cooling capacity and heating capacity tested in the following conditions:  
Cooling conditions: 33.0°CDB, 28.0°CWB, pipeline length 7.5 metre, pipe height difference 0 metre.  
Heating conditions: 0°CDB, -2.9°CWB, pipeline length 7.5 metre, pipe height difference 0 metre (heating is the data without defrosting).
  - Noise test conditions are as follows:  
At a distance of 1.5 metre from the unit surface.  
The above parameters are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be counted at the scene.
  - An air filter with dust removal efficiency of 50% or more needs to be installed at the air inlet.
  - When the field duct resistance is small and the fan speed is too high, the unit will appear the phenomena of abnormal shutdown, fault, water spray etc., and the duct pipe should be insulated to prevent generating dew.
  - Air processor can only be used for processing fresh air, indoor air conditioning load processing need to use other air conditioners.
  - Fresh air processing unit should be connected with Slim Modular VRF SideSmart™, Heat Pump Type, outdoor unit.  
When fresh air processing unit and other indoor units air all connected to the same SideSmart™ outdoor unit, Its equivalent cooling capacity is calculated by the following criteria:  
Type\_5HP class: 21.0kW; 8HP class: 33.3kW; 10HP class: 42.0kW.
  - Refer to capacity restrains shown on Table below for indoor unit capacity connectable to outdoor unit.

|                               |                                                        |                                                                  |
|-------------------------------|--------------------------------------------------------|------------------------------------------------------------------|
| System                        | All Fresh Air Unit System<br>(Only All Fresh Air Unit) | Mixed System<br>(All Fresh Air Unit and Other Indoor Unit)       |
| Range of Combination Capacity | 80 to 100%                                             | i) 80 to 100%<br>and<br>ii) Total Capacity of All Fresh Air: 30% |

Mixed system is only available with RPI-5.0/8.0/10.0KFNQ.  
RPI-12.0KFNQ or above is only available as one to one All Fresh Air Unit system.

8. When outdoor temperature is below 20.0°C in cooling operation, the system will be automatically converted to ventilation operation.  
When outdoor temperature is higher than 15.0°C in heating operation, it will be automatically converted to ventilation operation. When lower than -7.0°C, the fresh air processing unit will stop running.



Total heat exchanger

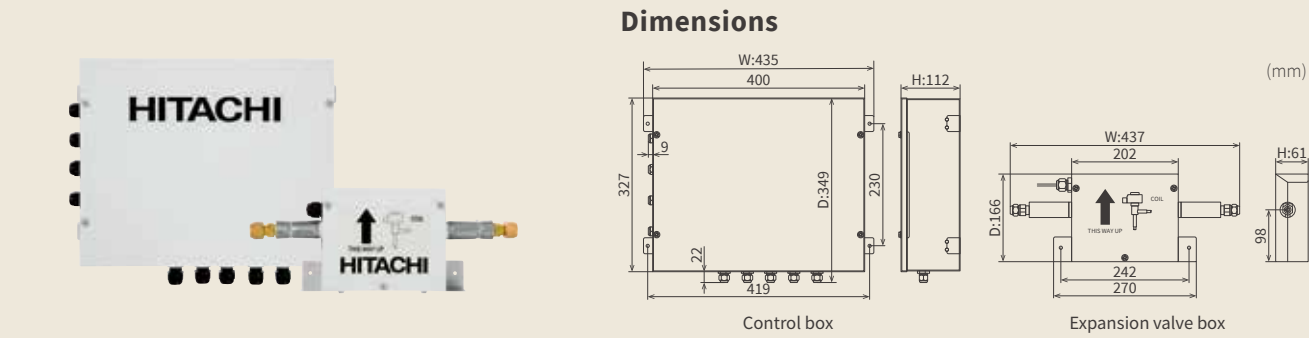
| Model                                             | Unit | KPI-25H-A-GQ1  | KPI-50H-A-GQ1  | KPI-100H-A-GQ1 | KPI-200H-A-GQ1           | KPI-500H-A-GQ1           |
|---------------------------------------------------|------|----------------|----------------|----------------|--------------------------|--------------------------|
| Unit Power Supply                                 |      | 220V-50Hz      | 220V-50Hz      | 220V-50Hz      | 380V/3N/50Hz             | 380V/3N/50Hz             |
| Enthalpy exchange efficiency-Cooling (Hi/Me/Lo)   | %    | 63/63/70       | 63/63/65       | 57/57/58       | 56/-/-                   | 56/-/-                   |
| Enthalpy exchange efficiency-Heating(Hi/Me/Lo)    | %    | 70/70/75       | 69/69/71       | 66/66/68       | 65/-/-                   | 65/-/-                   |
| Operating noise(Full anechoic Chamber) (Hi/Me/Lo) | dB   | 32.5/28.5/23.5 | 38.5/33.5/26.5 | 43/41/38       | 47/-/-                   | 56/-/-                   |
| Outer Dimension (LxWxH)                           | mm   | 962/735/220    | 1112/735/270   | 1115/1135/390  | 1550/1400/540            | 1550/1400/540            |
| Net Weight                                        | Kg   | 42             | 52             | 71.5           | 153.5                    | 242                      |
| Gros Weight                                       | Kg   | 50             | 61             | 92             | 186.5                    | 288                      |
| Air Flow Rate (Hi/Me/Lo)                          | m3/h | 250/170/120    | 500/300/180    | 1000/750/500   | 2000/-/-                 | 5000/-/-                 |
| External Static Pressure(Hi/Me/Lo)                | Pa   | 80/50/30       | 80/70/40       | 165/120/60     | 160/-/-                  | 240/-/-                  |
| Power Input (Hi/Me/Lo)                            | W    | 162/106/76     | 313/204/140    | 1020/900/726   | 1550/-/-                 | 1550/-/-                 |
| Current (Hi/Me/Lo)                                | A    | 0.75/0.48/0.35 | 1.42/0.95/0.67 | 4.88/4.3/3.47  | 2.59/-/-                 | 2.59/-/-                 |
| Flange Dimension                                  | mm   | Ø144           | Ø194           | Ø242           | "320 x 300<br>320 x 300" | "320 x 300<br>320 x 300" |

Note:  
Please confirm the model name for “wires remote controller” compatible with Total Heat Exchanger to your local distributor.



DX-Kit

Integrate Hitachi VRF into your pre-existing Air Handling Units (AHU).



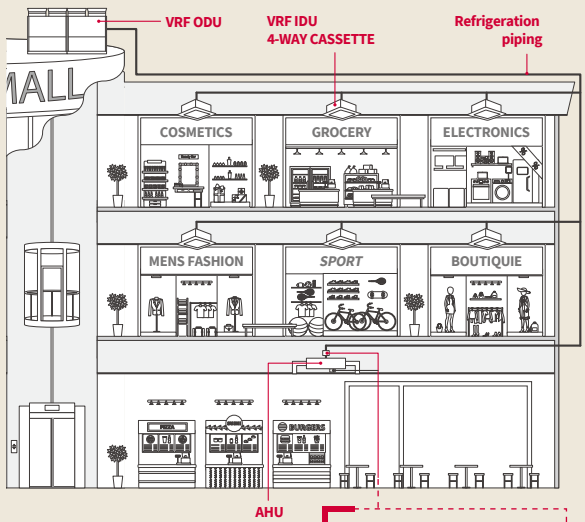
| Capacity (HP)                                                      |                                                       |    | 2                                                                                                                  | 4         | 6         | 8/10       | 12~20      | 22~30      |
|--------------------------------------------------------------------|-------------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------|-----------|-----------|------------|------------|------------|
| Model                                                              |                                                       |    | DXF-2.0A1                                                                                                          | DXF-4.0A1 | DXF-6.0A1 | DXF-10.0A1 | DXF-20.0A1 | DXF-30.0A1 |
| Control Box<br>(C Box)                                             | Power Supply                                          |    | AC1Φ, [220-240V /50Hz] [220V 60Hz]                                                                                 |           |           |            |            |            |
|                                                                    | Height                                                | mm | 112                                                                                                                | 112       | 112       | 112        | 112        | 112        |
|                                                                    | Width                                                 | mm | 435                                                                                                                | 435       | 435       | 435        | 435        | 435        |
|                                                                    | Depth                                                 | mm | 349                                                                                                                | 349       | 349       | 349        | 349        | 349        |
|                                                                    | Weight                                                | kg | 5.2                                                                                                                | 5.2       | 5.2       | 5.2        | 5.2        | 5.2        |
| Expansion Valve Box<br>(EXV Box)                                   | Material                                              |    | Steel Plate + White Grey Coating                                                                                   |           |           |            |            |            |
|                                                                    | Height                                                | mm | 61                                                                                                                 | 61        | 61        | 61         | 61         | 61         |
|                                                                    | Width                                                 | mm | 437                                                                                                                | 437       | 437       | 437        | 437        | 437        |
|                                                                    | Depth                                                 | mm | 166                                                                                                                | 166       | 166       | 166        | 166        | 166        |
|                                                                    | Weight                                                | kg | 1.7                                                                                                                | 1.7       | 1.7       | 1.7        | 1.7        | 1.7        |
|                                                                    | Quantity                                              |    | 1                                                                                                                  | 1         | 1         | 1          | 1          | 2          |
|                                                                    | Material                                              |    | Steel Plate + White Grey Coating                                                                                   |           |           |            |            |            |
| AHU Suction Temperature Range                                      | Liquid Pipe Diameter                                  |    | φ6.35                                                                                                              | φ9.52     | φ9.52     | φ9.52      | φ12.7      | φ12.7      |
|                                                                    | Cooling                                               |    | 21.0°C to 32.0°C (DB) / 15.0°C to 23.0°C (WB)                                                                      |           |           |            |            |            |
|                                                                    | Heating                                               |    | 15.0°C to 27.0°C (DB)                                                                                              |           |           |            |            |            |
| Connection Ratio in different configurations                       |                                                       |    | • 1 ODU to 1 AHU : 50% < X ≤ 100%                                                                                  |           |           |            |            |            |
| → Total AHU or AHU & IDU Connection Ratio against ODU capacity = X |                                                       |    | • 1 ODU to 1 AHU (Separate Heat Exchanger Type) : 50% < X ≤ 100%                                                   |           |           |            |            |            |
| (In case of "Inlet Air Temperature Control")                       |                                                       |    | • 1 ODU to Multiple AHUs : 50% < X ≤ 100%                                                                          |           |           |            |            |            |
|                                                                    |                                                       |    | • 1 ODU to AHU & IDUs :                                                                                            |           |           |            |            |            |
|                                                                    |                                                       |    | (1) 50% < X ≤ 100% → Total AHU capacity: No limitation / Each AHU capacity: No limitation                          |           |           |            |            |            |
|                                                                    |                                                       |    | (2) 100% < X ≤ 110% → Total AHU capacity: less than 30% of total capacity / Each AHU capacity: between 2-6HP class |           |           |            |            |            |
| Maximum Piping Length                                              | Total                                                 | m  | • 1,000 (When the number of connected [AHU & IDU] in the system is the same or less than the recommended.)         |           |           |            |            |            |
|                                                                    | Between AHU Heat Exchanger and EXV Box                | m  | 5                                                                                                                  | 5         | 5         | 5          | 5          | 5          |
| Maximum Level Difference                                           | Between ODU and [AHU/IDU]                             | m  | • 50 (When ODU is above [AHU & IDU & DX-Kit].)                                                                     |           |           |            |            |            |
|                                                                    | Between AHU Heat Exchanger and EXV Box                | m  | 2                                                                                                                  | 2         | 2         | 2          | 2          | 2          |
| Maximum Length                                                     | Control wiring between AHU Heat Exchanger and EXV Box | m  | 10                                                                                                                 | 10        | 10        | 10         | 10         | 10         |
|                                                                    | Thermistor to AHU Heat Exchanger from C Box           | m  | 10                                                                                                                 | 10        | 10        | 10         | 10         | 10         |
| Temperature Control Modes (*1)                                     |                                                       |    | • Inlet Air Temperature Control<br>• Outlet Air Temperature Control<br>• Duty Control                              |           |           |            |            |            |

(\*1) [Outlet Air Temperature Control] & [Duty Control] are available only in case of connections "1 ODU to 1 AHU" & "1 ODU to 1 AHU(Separate Heat Exchanger Type)".

DX-KIT: Great flexibility for simplified HVAC upgrade

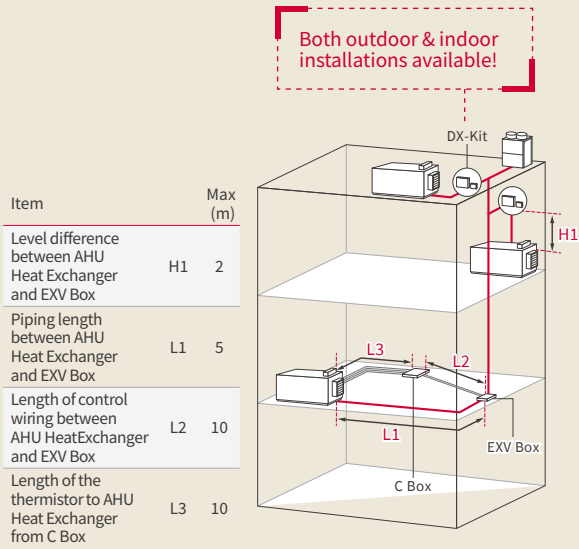
- ① Wide range of capacity:
- (DX-Kit) Single capacity from 2HP to 30HP
  - (Custom AHU) up to 96HP available by DX-Kit combination

Our DX-Kit can cover from small to large capacity AHU.  
It can meet any requirement in any application!



- ② Flexible installation:
- Both outdoor & indoor installation of DX-Kit available
  - Design Flexibility in wiring & piping

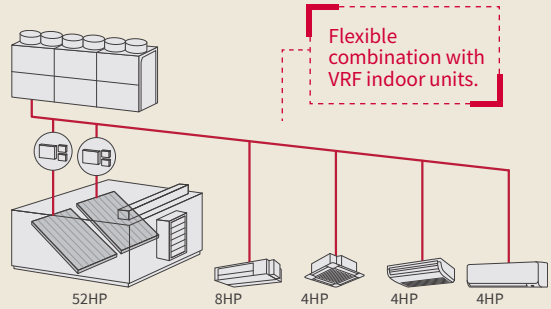
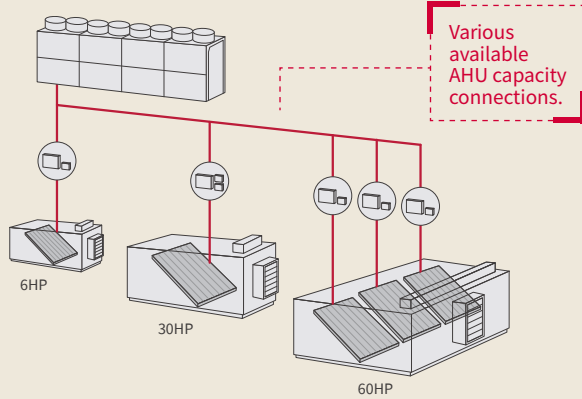
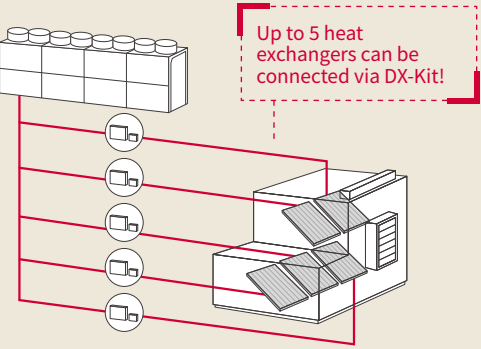
DX-Kit facilitates system design!



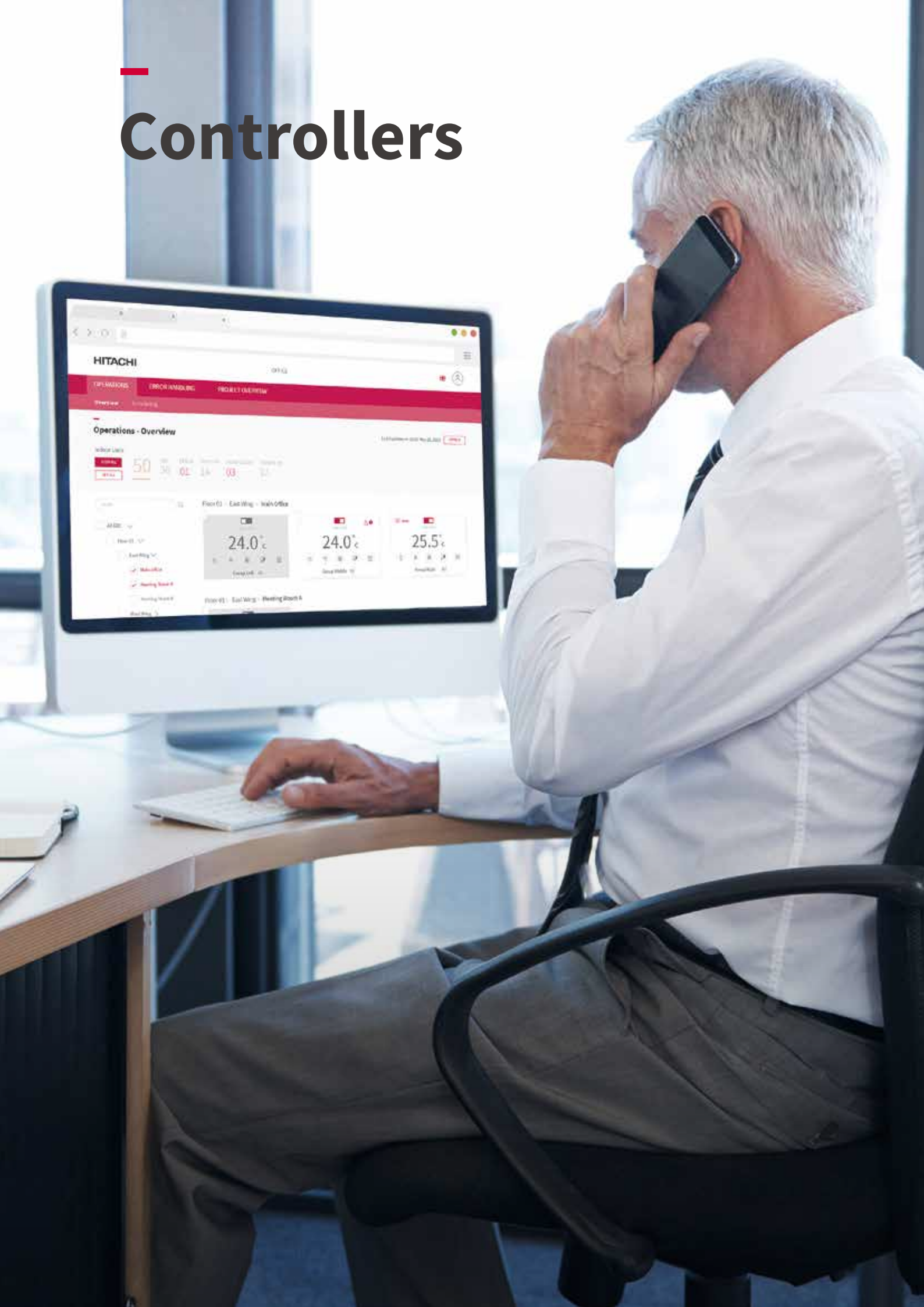
- ③ 4 examples of configuration:
- 1 VRF outdoor unit + 1 AHU
  - 1 VRF outdoor unit + 1 AHU (external heat exchanger)
  - 1 VRF Outdoor unit + multiple AHUs
  - 1 VRF Outdoor unit + VRF indoor units + AHUs

[Example]

DX-Kit  
Left: Control Box (C Box)  
Right: Expansion Valve Box (EXV Box)



# Controllers



## New generation: simple and smart!

Everyone deserves comfort, but comfort does not mean the same to everyone. That's why control is key. Our controllers offer best-in-class simplicity. Using our praised central stations, building managers can instantly optimize air conditioning in targeted zones. For occupants, our new advanced color controller provides intuitive navigation with a premium design. With airCloud Pro, our exclusive new-generation solution, users can manage from one indoor unit to several systems remotely via IoT (web/smartphone).

|     |                                        |
|-----|----------------------------------------|
| 89  | CENTRALIZED CONTROLLERS                |
| 90  | Line up overview                       |
| 91  | airCloud Pro                           |
| 93  | Central Station EX                     |
| 94  | Central Station EZ                     |
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| 95  | INDIVIDUAL CONTROLLERS                 |
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| 97  | Advanced color wired remote controller |
| 100 | Eco-Compact controller                 |
| 101 | Wired remote controller                |
| 101 | Advanced wireless remote controller    |
| 102 | Wireless remote controller             |
| 102 | Receiver kit                           |
| 103 | H-LINK: ENJOY MORE FREEDOM             |



# Centralized controllers

Control each indoor unit, one specific zone or even multiple systems from one place!

## airCloud pro\* (HC-IoTGW)

- Remote access via smartphone app or web
- Unlimited number of systems, zones and users
- Intuitive scheduling function
- Troubleshooting with access to error history and alerts
- Filter sign display to quickly overview daily maintenance needs
- Ideal for all types of applications

## Central station EX (PSC-A128EX3)

- Control capacity: max 2,560 indoor units (+15x Extension Adapter (PSC-AD128EX3))
- With energy calculation software (PSC-AS01EXC), determine each tenant's energy usage
- Easy monitoring with simplified interface
- Best option for middle-large size buildings
- Remote access! Operate Central Station EX from your laptop PC or touch-panel PC

## Central station EZ (PSC-A64GT)

- Control capacity: max 64 remote control group of indoor units
- Compact and optimized 170x250mm body screens fitting in even small walls
- Easy monitoring with simplified interface
- Best option for middle size buildings

## Central station mini (PSC-A32MN)

- Control capacity: max 32 remote control group of indoor units
- Compact and optimized 120x140mm body screens fitting in even small walls
- Easy monitoring with simplified interface
- Best option for small size buildings

\*airCloud Pro available with SideSmart™ from May 2021.

# Small to large systems & fixed or cloud-based

|                     |                                       | airCLOUD PRO*                             | CENTRAL STATION MINI | CENTRAL STATION EZ | CENTRAL STATION EX        |
|---------------------|---------------------------------------|-------------------------------------------|----------------------|--------------------|---------------------------|
|                     |                                       | HC-IoTGW                                  | PSC-A32MN            | PSC-A64GT          | PSC-A128EX3               |
| Capacity comparison | RC group                              | 64 (*6)                                   | 32                   | 64                 | 2,560 (*1)                |
|                     | Group                                 | 64 (*6)                                   | 32                   | 64                 | 2,048 (*1)                |
|                     | Block                                 | Unlimited (*7)                            | 2/4/8/16             | 4                  | 512 (*2)                  |
|                     | Area                                  | Unlimited (*7)                            | -                    | -                  | 512 (*2)                  |
|                     | Indoor unit                           | 80 (*6)                                   | 160                  | 160                | 2,560 (*1)                |
|                     | Outdoor unit                          | 16 (*6)                                   | 64                   | 64                 | 1,024 (*1)                |
|                     | Building scale                        | Small to Large                            | Small                | Medium             | Large                     |
| Display             | Operation                             | Web + Mobile Phone                        | Touch screen         | Touch screen       | Touch screen + Web (New!) |
|                     | Operation panel size options          | Adaptive                                  | 3                    | 2                  | 7                         |
|                     | Layout                                | -                                         | -                    | -                  | ●                         |
| Operation unit      | List options                          | -                                         | -                    | -                  | 3                         |
|                     | All together                          | ●                                         | ●                    | ●                  | ●                         |
|                     | By layout                             | -                                         | -                    | -                  | ●                         |
| Control Function    | By area                               | ●                                         | -                    | -                  | ●                         |
|                     | By block                              | ●                                         | ●                    | ●                  | ●                         |
|                     | By group                              | ●                                         | -                    | -                  | ●                         |
| Monitor Function    | By RC group                           | -                                         | ●                    | ●                  | -                         |
|                     | By indoor unit                        | ●                                         | -                    | -                  | ●                         |
|                     | Main 5 functions (*5)                 | ●                                         | ●                    | ●                  | ●                         |
| Schedule Function   | Individual controller lock            | ●                                         | ●                    | Δ (*3)             | ●                         |
|                     | Filter sign reset                     | ●                                         | ●                    | ●                  | ●                         |
|                     | Outdoor unit capacity control         | -                                         | Δ (*4)               | -                  | ●                         |
| Other function      | Outdoor unit noise control            | -                                         | -                    | -                  | ●                         |
|                     | Main 5 functions (*5)                 | ●                                         | ●                    | ●                  | ●                         |
|                     | Individual controller lock            | ●                                         | ●                    | ●                  | ●                         |
| IoT Functions       | Alarm status & code                   | ●                                         | ●                    | ●                  | ●                         |
|                     | Filter sign                           | ●                                         | ●                    | ●                  | ●                         |
|                     | Air inlet temperature of indoor unit  | -                                         | ●                    | -                  | ●                         |
| IoT Functions       | Air inlet temperature of outdoor unit | -                                         | ●                    | -                  | ●                         |
|                     | Weekly                                | ●                                         | ●                    | ●                  | ●                         |
|                     | Setting times per day                 | 16                                        | 10                   | 10                 | 16                        |
| IoT Functions       | Special day setting                   | 5                                         | -                    | -                  | 5                         |
|                     | Holiday setting                       | -                                         | -                    | -                  | ●                         |
|                     | Annual/Summer/Winter schedule         | Future Version                            | -                    | -                  | ●                         |
| IoT Functions       | Alarm history (records number)        | Unlimited                                 | 100                  | 100                | 10,000                    |
|                     | External in/output history            | -                                         | -                    | -                  | 1,000                     |
|                     | Management report visualization(*11)  |                                           | ●                    | ●                  | ●                         |
| IoT Functions       | Data output by external media         | Download from Web<br>- Future             | -                    | -                  | SD card, USB flash device |
|                     | Connectivity                          | Ethernet + 4G (*9)                        | -                    | -                  | -                         |
|                     | Future Extendability                  | Firmware OTA (*10)<br>Web + Mobile Update | -                    | -                  | -                         |

\* airCloud Pro available with SideSmart™ from May 2021.

(\*1) One Extension Adapter (PSC-AD128EX1) enable CENTRAL STATION EX to control additional 160 RC groups / 128 groups / 160 IDUs / 64 ODUs, and up to 15 adapters can connect to one Central Station EX.

(\*2) No restriction on the number of H-LINK.

(\*3) Individual Feature Control in Each Remote Controller is not available.

(\*4) Applicable only with Schedule function or external signal input. You cannot set it up directly from monitoring panel.

(\*5) Main 5 functions meaning: 1) Run/Stop 2) Operation mode 3) Temperature setting 4) Fan speed 5) Louver control.

(\*6) Ability to connect unlimited number of "HC-IoTGW" in one project and control all AC units via one single screen on Web or Mobile Phone.

(\*7) Unlimited creation of zones, across multiple "HC-IoTGW" units within the same project.

(\*8) Visualization of outdoor unit energy consumption.

(\*9) 4G available through optional 4G module; 4G module package comes with global SIM and pre-paid global data plan.

(\*10) OTA: Over-the-air firmware update, provides always up-to-date firmware and latest functionalities.

(\*11) Mini , EZ : Accumulated operation time ( min ) , Accumulated thermo - ON ( min ) .  
EX : Accumulated operation time ( min ) , Accumulated thermo - ON time ( min ) , Average air intake temperature of indoor unit , Average air intake temperature of outdoor unit , Average setting temperature , Average RC sensor temperature.

# Centralized controllers

## airCLOUD PRO\*

[Gateway]



200mm

138mm

Lateral view: 41mm



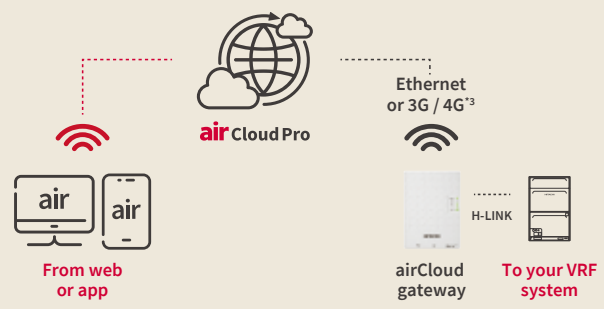
### Specifications

| Gateway                          | HC-IoTGW                          |
|----------------------------------|-----------------------------------|
| Net weight (g)                   | 540                               |
| Connection capacity              | 16 outdoor + 80 indoor units      |
| Power supply (V)   (Hz)          | 100-240, AC   50/60               |
| Max. power consumption (W)       | 10                                |
| Communication port               | 1 H-LINK, 1 RS485 Port            |
| Internet connection              | LAN (Ethernet) or 4G <sup>3</sup> |
| External interface (log storage) | 1 micro SD card slot              |

### Functions

|                              |                                                                                                                                                                                                       |                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IoT connection (cloud-based) | <ul style="list-style-type: none"><li>• Access via smartphone app or web</li><li>• Unlimited number of gateways</li><li>• Unlimited number of locations</li><li>• Unlimited number of users</li></ul> | Monitor Function                                                                                                                           | <ul style="list-style-type: none"><li>• On/Off • Mode • Set temperature</li><li>• Air intake temperature • RC sensor temperature (*3)</li><li>• Air intake temperature of outdoor unit</li><li>• Fan Speed • Louver • RC prohibition</li><li>• Thermo-ON information • Filter sign/Auto cleaning fault</li><li>• Alarm status/Alarm codes</li></ul> |
| Operation unit               | <ul style="list-style-type: none"><li>• Per entire location</li><li>• Per system</li><li>• Per zone (unlimited zone creation)</li><li>• Per indoor unit remote control group</li></ul>                | Schedule function                                                                                                                          | <ul style="list-style-type: none"><li>• Weekly schedule • Easy selection of days and zones</li><li>• Setting items in schedule is as below; • On/Off</li><li>• Operation mode • Setting temperature</li><li>• Louver • Fan speed</li></ul>                                                                                                          |
| Control function             | <ul style="list-style-type: none"><li>• On/Off • Mode • Set temperature</li><li>• Fan speed • Louver • RC lock</li><li>• Filter sign reset</li></ul>                                                  | * "All Groups Run/Stop" command signal exception function for selected groups is available by "Exception of Run/Stop Operation." function. |                                                                                                                                                                                                                                                                                                                                                     |

### System configuration.



### Recommended facilities (examples.)



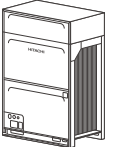
### Is airCloud Pro for me?

All VRF users can enjoy these benefits!

- Save energy
- Save time and unnecessary transportation
- Delegate VRF systems administration
- Create a comfortable climate for guests

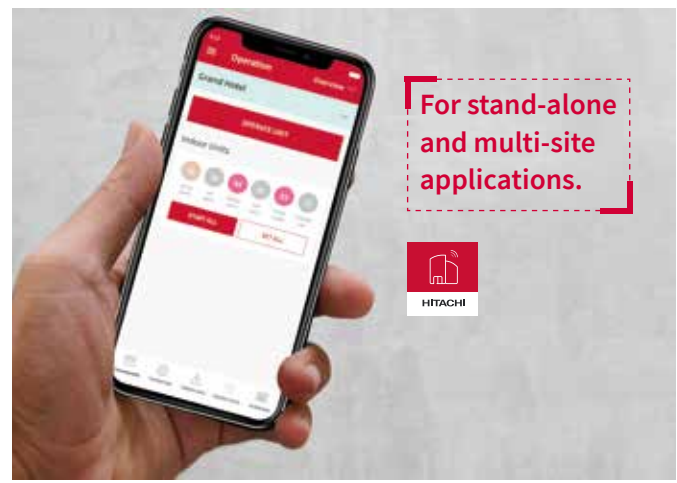
### Future-proof

With updates and new features added regularly, air-Cloud Pro ensures you are always up to date.



- Compatible with new and former
- Hitachi Variable Refrigerant
- Flow systems\*1

Control is in your hands.  
24/7 control at your fingertips on smartphone, tablet, or PC.



For stand-alone and multi-site applications.



- ✓ Intuitive simplicity  
airCloud Pro is designed to make your job easier. An intuitive app that anyone can use, airCloud Pro makes managing your VRF systems easier than ever before.
- ✓ Control from anywhere  
Enjoy the freedom of remote access from your smartphone, tablet or laptop. airCloud Pro allows you to remotely control your VRF system(s) from a single app, saving you travel time.

### A simple yet powerful tool.

#### Simplify your job

The pilot app makes managing your VRF systems easy.

- Centralized control  
Control your entire VRF system or selected zones in one touch.
- Simplified troubleshooting  
A clear error history, concise error description and follow-up.
- Smartphone alerts<sup>\*2</sup>  
In the event of a critical malfunction.
- Flexible user management<sup>\*2</sup>  
Add users and custom access restrictions.

#### Save more energy

Plan and optimize the usage.

- Intuitive scheduling  
Plan operations ahead based on your business hours.
- Individual controller lock  
Prevent inappropriate usage from occupants.

#### Create better comfort

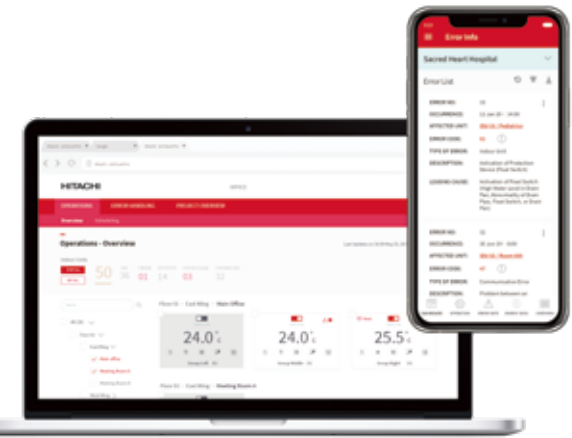
Adjust temperature, fan speed, and modes with ease, creating total comfort and the ideal climate throughout your building.

An integrated weather forecast<sup>\*2</sup> display helps you determine the most suitable conditions for your indoor spaces all year round.

#### Easy plug-and-play

Our airCloud gateway makes installation a breeze.

Connect to the airCloud via 3G/4G<sup>\*3</sup> or ethernet and pair your VRF systems via QR code scan. With automatic detection of indoor units and an optimized installer view, configuring your site and zones has never been quicker.



#### + data security

Best-in-class standards:  
TLS.v1.2, HTTPS 2038 encryption.

Minimal personal details:  
Only your name, email address and phone number are required for login.

\*airCloud Pro available with SideSmart™ from May 2021.  
\*1 Confirm compatibility of your VRF installation with your Hitachi Cooling & Heating representative.

\*2 Functions not available as of September 2019, coming soon.  
\*3 4G module available as a side accessory.

# Centralized controllers

## Central station EX for large-scale buildings

(PSC-A128EX3)



For middle or large-scale buildings buildings such as hotels, educational facilities, and hospitals, our Central Station EX features a highly intuitive and functional 12.1-inch wide, wall-mountable, color LCD screen.

Control up to 2,560 indoor units with our proprietary H-LINK system with 15 extension adapters (PSC-AD128EX3).

Also, with energy calculation software (PSC-AS01EXC), Central Station EX can help you easily manage each tenant's electricity & report the power consumption of VRF system for each tenant.

Install by add-on software and activate, then, you can select electricity ratio or usage ratio from several methods.

### Capacity

|                |            |
|----------------|------------|
| H-LINK         | 16         |
| RC group       | 2,560 (*1) |
| Group          | 2,048 (*1) |
| Block          | 512 (*2)   |
| Area           | 512 (*2)   |
| Indoor unit    | 2,560 (*1) |
| Outdoor unit   | 1,024 (*1) |
| Building scale | Large      |

#### Extension adapter



PSC-AD128EX3

(\*1) 1 extension adapter (PSC-AD128EX3) enables Central Station EX to control additional 160 RC groups / 128 groups / 160 IDUs / 64 ODUs. Central Station EX can connect up to 15 adapters  
(\*2) No restriction on the number of H-LINK

#### Energy calculation software\*



PSC-AS01EXC

### Specifications

|                              |                                            |
|------------------------------|--------------------------------------------|
| Rated power supply           | 100~240VAC ±10% (50/60Hz)                  |
| Electrical power consumption | 50W (Max.)                                 |
| Communication unit           | Units of Adopting for H-LINK               |
| Communication line           | Two-wire non-polar                         |
| Communication speed          | 9,600bps                                   |
| Wiring length                | 1,000m (Total Length)                      |
| Display                      | 12.1-inch TFT color liquid crystal display |
| Display control              | Touch Panel                                |

## Central station EZ for medium-scale buildings

(PSC-A64GT)



With easy control via an 8.5-inch color touch panel, its detailed control functionalities such as Weekly Scheduling, Operation hours tracking, and more, help you save energy. Up to 64 remote-controlled groups and up to 160 indoor units can be connected to the Central Station EZ.

### Capacity

|                |              |
|----------------|--------------|
| RC group       | 64           |
| Group          | 64           |
| Block          | 4            |
| Indoor Unit    | 160          |
| Outdoor Unit   | 64           |
| Building Scale | Small-Medium |

### Specifications

|                              |                                    |
|------------------------------|------------------------------------|
| Rated Power Supply           | 1-, AC 100-240V, 50/60Hz           |
| Electrical Power Consumption | 30W (Max.)                         |
| Communication Unit           | Units of Adopting for H-LINK       |
| Communication Line           | Non-polar 2-wire                   |
| Communication Speed          | 9,600bps                           |
| Wiring Length                | 1,000m (Total Length)              |
| Display                      | 8.5-inch Wide Color LCD (Full Dot) |
| Display Control              | Touch Panel                        |

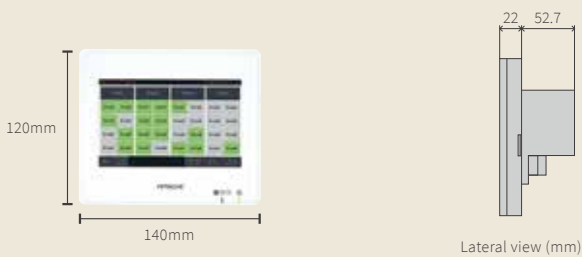
### Functions

|                  |                                                                                                                                                                                                          |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Monitor Function | • Run/Stop/Abnormality • Setting Temperature<br>• RC Operation Prohibited Setting<br>• Accumulated Operating Time<br>• Operation Mode • Setting Fan Speed<br>• Setting Louver • Filter Sign • Alarm Code |
| Control Function | • Run/Stop* • Fan Speed<br>• Operation Mode • Louver<br>• Temperature Setting<br>• RC Operation Prohibited<br>• Filter Sign Reset                                                                        |

\*The "All Groups Run/Stop" command signal exception function for selected groups is available via the "Exception of Run/Stop Operation" function.

## Central station mini for small-scale buildings

(PSC-A32MN)



With easy control via an 5.0-inch color touch panel, its detailed control functionalities such as weekly scheduling, operation hours tracking, help you save energy. Up to 32 remote-controlled groups and up to 160 indoor units can be connected to the Central Station mini.

### Capacity

|                |                       |
|----------------|-----------------------|
| RC group       | 32                    |
| Group          | 32                    |
| Block          | 4 Patterns (2/4/8/16) |
| Indoor Unit    | 160                   |
| Outdoor Unit   | 64                    |
| Building Scale | Small                 |

### Specifications

|                              |                                    |
|------------------------------|------------------------------------|
| Rated Power Supply           | 1-, AC 100-240V, 50/60Hz           |
| Electrical Power Consumption | 20W (Max.)                         |
| Communication Unit           | Units of Adopting for H-LINK       |
| Communication Line           | Non-polar 2-wire                   |
| Communication Speed          | 9,600bps                           |
| Wiring Length                | 1,000m (Total Length)              |
| Display                      | 5.0-inch Wide Color LCD (Full Dot) |
| Display Control              | Touch Panel                        |

### Functions

|                  |                                                                                                                                                                                                           |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Monitor Function | • Run/Stop/Abnormality • Setting Temperature<br>• RC Operation Prohibited Setting<br>• Accumulated Operating Time<br>• Operation Mode • Setting Fan Speed<br>• Setting Louver • Filter Sign • Alarm Code" |
| Control Function | • Run/Stop* • Fan Speed<br>• Operation Mode • Louver<br>• Temperature Setting<br>• RC Operation Prohibited<br>• Filter Reset Signal                                                                       |

\* "All Groups Run/Stop" command signal exception function for selected groups is available by "Exception of Run/Stop Operation." function.

### Functions

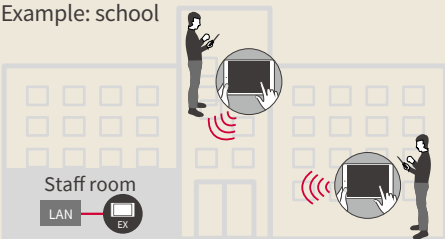
|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operation unit                  | All together<br>Each area<br>Each block<br>Each group<br>Each indoor unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Control function                | On/Off<br>Mode<br>Set temperature<br>Fan speed<br>Louver<br>RC prohibition<br>Filter sign reset<br>Function selection for indoor units (*1)<br>Function selection for outdoor units (*2)<br>Capacity control for outdoor units (*2)<br>Lower noise control for outdoor units (*2)                                                                                                                                                                                                                                                                                                                      |
| Monitor function                | On/Off<br>Mode<br>Set temperature<br>Air intake temperature<br>RC sensor temperature (*3)<br>Air intake temperature of outdoor unit<br>Fan Speed<br>Louver<br>RC prohibition<br>Thermo-ON information<br>Filter sign/Auto cleaning fault<br>Alarm status/Alarm codes                                                                                                                                                                                                                                                                                                                                   |
| Schedule function               | Each of the following settings is available in 3 different [annual] [summer][winter] categories:<br>→ Weekly schedule<br>→ Up to 16 actions can be set per day<br>→ Exception day setting: 5 different types<br>→ Holiday setting<br><br>Setting items in schedule is as below:<br>• On/Off<br>• Operation mode<br>• Setting temperature<br>• Louver<br>• Fan speed<br>• RC operation prohibition<br>• Capacity control for outdoor units<br>• Lower noise control for outdoor units                                                                                                                   |
| History                         | Alarm history: 10,000 records<br>External In/Output history: 1,000 records<br>Pulse input history: 6 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Management report visualization | Up to 2 years worth of data history can be displayed for the following:<br>• Accumulated operation time (min.)<br>• Accumulated thermo-ON time (min.)<br>• Average air intake temp temperature of indoor unit<br>• Average air intake temperature of outdoor unit<br>• Average setting temperature<br>• Average RC sensor temperature                                                                                                                                                                                                                                                                  |
| External input / output         | Energy saving:<br>• Run/Stop<br>• RC prohibition<br>• Temperature shift<br>(For Cool/Dry mode: +1.0°C~+9.0°C (+1.0°F~+18.0°F))<br>(For Heat mode: -1.0°C~9.0°C (-1.0°F~18.0°F))<br>• Mode shift<br>(Mode shifted to Fan when in Cool/Dry mode, and shifted to Stop in Heat mode)<br>• Capacity control on outdoor units<br>• Lower noise control for outdoor units<br><br>Control/Monitor<br>→ Controlled items:<br>• Run/Stop<br>• Mode (Cool/Heat)<br>→ Monitored items:<br>• Run/Stop<br>• Mode (Cool/Heat)<br>• Alarm state<br><br>Others:<br>• Power consumption signal input<br>• Emergency stop |

(\*1) Some indoor units may not fully support all functions.  
(\*2) Available for applicable outdoor units only.  
(\*3) Whether this is shown on the screen depends on the remote controller settings.

## Remote access.

You can now operate Central Station EX from your laptop PC or touch panel PC. Install our software and you can connect from anywhere, using our VPN network.

Example: school



# Individual controllers



NEW

## Advanced color wired remote controller (PC-ARFG1-A)

- Exclusive color screen & Award-winning design.
- Simplified menu and enhanced UIUX
- Includes latest VRF features such as FrostWash™ and several comfort settings (with selected IDU and ODU models)

## Wired remote controller (HCWA10NEGQ)

- 88mm square controller with LCD screen
- Smaller body with multiple features
- Best option for spaces frequented by recurring users, e.g. offices

## Advanced wireless remote controller (PC-AWR)

- Wireless remote controller with more features
- Several temperature units and settings available; 0.5°C/1.0°C/1.0°F
- Ideal for controlling the unit from anywhere in the room, e.g. residential spaces

NEW

## Eco-Compact Model (PC-ARC-A)

- Support Near Field Communications(NFC) contact-less-enabled system commissioning via airCloud Tap smartphone app
- Embedded IR Receiver(for selected wireless remote)
- User friendly segment UI design

## Wireless remote controller (PC-LH7QE2)

- Budget option featuring primary control settings.
- 1.0°C temperature step
- Ideal for visitors to control the unit from anywhere in the room, e.g. hotel suite

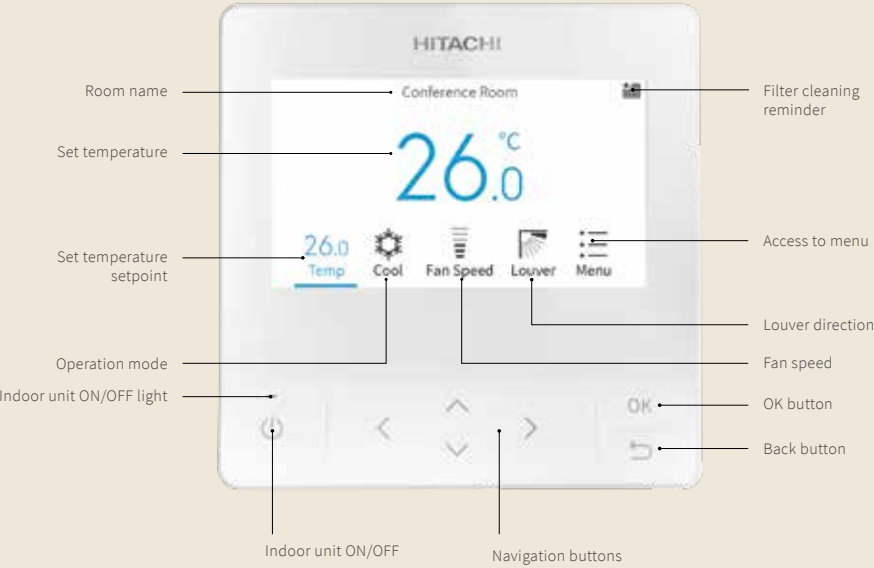
## From basic to advanced controls

|                           |                                                | <div>ADVANCED-COLOR CONTROLLER</div> <div></div> <div>NEW PC-ARFG1-A</div> | <div>ECO-COMPACT CONTROLLER</div> <div></div> <div>NEW PC-ARC-A</div> | <div>WIRED REMOTE CONTROLLER</div> <div></div> <div>HCWA10NEGQ</div> | <div>ADVANCED WIRELESS REMOTE CONTROLLER</div> <div></div> <div>PC-AWR</div> | <div>WIRELESS REMOTE CONTROLLER</div> <div></div> <div>PC-LH7QE2</div> |
|---------------------------|------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Connection Capacity       | No of RC-Group<br>No of indoor units           | 1<br>16                                                                    | 1<br>16                                                               | 1<br>16                                                              | -<br>-                                                                       | -<br>-                                                                 |
| Product Size              | Width*Height*Depth (mm)                        | 120×120×16.5<br>(D: thinnest part)                                         | 90×90×15.5<br>(D: thinnest part)                                      | 88×88×15.5                                                           | 140×55×16.8                                                                  | 140×52×19.3                                                            |
| Screen                    |                                                | Color LCD with backlight                                                   | Segment LCD with backlight                                            | Segment LCD with backlight                                           | Segment LCD                                                                  | Segment LCD                                                            |
| Embedded IR receiver      |                                                | -                                                                          | ●                                                                     | -                                                                    | -                                                                            | -                                                                      |
| Smartphone App            | Use With Aircloud Tap                          | ● (support NFC)                                                            | ● (support NFC)                                                       | -                                                                    | -                                                                            | -                                                                      |
| Essential Operations      | Run / Stop                                     | ●                                                                          | ●                                                                     | ●                                                                    | ●                                                                            | ●                                                                      |
|                           | Operation Mode                                 | ●                                                                          | ●                                                                     | ●                                                                    | ●                                                                            | ●                                                                      |
|                           | Auto Mode Setting                              | ●                                                                          | ●                                                                     | ●                                                                    | ●                                                                            | ●                                                                      |
|                           | Temperature Setting                            | ●                                                                          | ●                                                                     | ●                                                                    | ●                                                                            | ●                                                                      |
|                           | Fan Speed                                      | ●                                                                          | ●                                                                     | ●                                                                    | ●                                                                            | ●                                                                      |
|                           | Louver Direction                               | ●                                                                          | ●                                                                     | ●                                                                    | ●                                                                            | ●                                                                      |
|                           | Simple Timer                                   | ●                                                                          | ● (On/Off Timer)                                                      | ● (On/Off Timer)                                                     | ● (On/Off Timer)                                                             | ● (On/Off Timer)                                                       |
|                           | Weekly Operation Schedule                      | ●                                                                          | ●                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Power Savings Setting                          | ●                                                                          | ● (Capacity Control only)                                             | -                                                                    | -                                                                            | -                                                                      |
|                           | Night Quiet Operation                          | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
| Advanced Feature Settings | Power Savings/Night Quiet Schedule             | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Power Consumption Display                      | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | AutoBoost                                      | ●                                                                          | ●                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Comfort Setting                                | ●                                                                          | ● (GentleCool only)                                                   | -                                                                    | -                                                                            | -                                                                      |
|                           | Sleep Mode                                     | -                                                                          | ●                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Motion Sensor Setting (1)                      | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Setback Setting                                | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Elevating Grille                               | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Filter Reminder Time Reset                     | ●                                                                          | ●                                                                     | ●                                                                    | ●                                                                            | ●                                                                      |
|                           | Filter Auto-Cleaning (1)                       | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | FrostWash Setting (1)                          | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Individual Louver Setting                      | ●                                                                          | ●                                                                     | ●                                                                    | -                                                                            | -                                                                      |
|                           | Louver Open/Close                              | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Ventilation                                    | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Total Heat Exchanger SET                       | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
| Display Settings          | Adjusting Date/Time                            | ●                                                                          | ●                                                                     | ●                                                                    | -                                                                            | -                                                                      |
|                           | Daylight Saving Time                           | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Run Indicator Brightness Adjustment            | ●                                                                          | ● (Only On/Off setting)                                               | -                                                                    | -                                                                            | -                                                                      |
|                           | Display Adjustment                             | ●                                                                          | -                                                                     | -                                                                    | ●                                                                            | -                                                                      |
|                           | Temperature Units (°C/°F)                      | ●                                                                          | ●                                                                     | ●                                                                    | ●                                                                            | - (°C only)                                                            |
|                           | Temperature setting at 0.5°C step              | ●                                                                          | ●                                                                     | ●                                                                    | ●                                                                            | - (1.0°C only)                                                         |
| Service Functions         | Room Temperature Display                       | ●                                                                          | ●                                                                     | ●                                                                    | -                                                                            | -                                                                      |
|                           | Language available                             | EN, JPN,CN (traditional &simplified),FR, ES,PT                             | EN                                                                    | EN                                                                   | EN                                                                           | EN                                                                     |
|                           | Keypad Touch Sound                             | ●                                                                          | ●                                                                     | ● (Cannot turn off)                                                  | -                                                                            | -                                                                      |
|                           | Lock Function                                  | ●                                                                          | ● (Lock function individually)                                        | ● (Lock whole keypad)                                                | -                                                                            | -                                                                      |
|                           | Password Setting                               | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Hotel Mode                                     | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Power Saving Details Setting                   | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Temperature Range Restriction                  | ●                                                                          | ● (in Function Selection)                                             | ● (in Function Selection)                                            | -                                                                            | -                                                                      |
|                           | Dual Setpoint                                  | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Main/Sub Display                               | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Set Room Name                                  | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Set Contact Information                        | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | NFC Setting                                    | ●                                                                          | ●                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Simple Maintenance Check Menu                  | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Test Run                                       | ●                                                                          | ●                                                                     | ●                                                                    | -                                                                            | -                                                                      |
| Installation Functions    | Function Selection                             | ●                                                                          | ●                                                                     | ●                                                                    | -                                                                            | -                                                                      |
|                           | Thermistor Selection                           | ●                                                                          | ● (in Function Selection)                                             | ● (in Function Selection)                                            | -                                                                            | -                                                                      |
|                           | Input/Output                                   | ●                                                                          | ●                                                                     | ●                                                                    | -                                                                            | -                                                                      |
|                           | Thermistor Calibration in Controller           | ●                                                                          | ● (in Function Selection)                                             | -                                                                    | -                                                                            | -                                                                      |
|                           | Fan Speed At Thermo-Off                        | ●                                                                          | ● (in Function Selection)                                             | ● (in Function Selection)                                            | -                                                                            | -                                                                      |
|                           | Indoor Unit Address Change                     | ●                                                                          | ●                                                                     | ●                                                                    | -                                                                            | -                                                                      |
|                           | Address Check Operation                        | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Address Initialization                         | ●                                                                          | ●                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Setting Initialization                         | ●                                                                          | ●                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Main/Sub Controller Setting                    | ●                                                                          | ●                                                                     | ●                                                                    | -                                                                            | -                                                                      |
| Check Menu                | Priority Setting                               | ●                                                                          | -                                                                     | ●                                                                    | -                                                                            | -                                                                      |
|                           | Cancel Preheating Control                      | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Elevating Grille Setting                       | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Power Up Setting                               | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Setback Trigger Unit                           | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Refrigerant Leak Sensor Setting                | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Check 1                                        | ●                                                                          | ●                                                                     | ●                                                                    | -                                                                            | -                                                                      |
|                           | Check 2                                        | ●                                                                          | ●                                                                     | ●                                                                    | -                                                                            | -                                                                      |
|                           | Alarm History Display                          | ●                                                                          | ●                                                                     | ●                                                                    | -                                                                            | -                                                                      |
|                           | Display Model Number                           | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
| Other features            | Check PCB of the Units                         | ●                                                                          | -                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Self Check                                     | ●                                                                          | ●                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Synchronize Date/ time with Central Controller | ● (Only available from Central Station EX PSC-A128EX3)                     | ● (Only available from Central Station EX PSC-A128EX3)                | -                                                                    | -                                                                            | -                                                                      |
|                           | Stop operation delay                           | ●                                                                          | ●                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Emergency operation                            | ●                                                                          | ●                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Two WRC Control                                | ●                                                                          | ●                                                                     | -                                                                    | -                                                                            | -                                                                      |
|                           | Alarm Display                                  | ●                                                                          | ●                                                                     | ●                                                                    | -                                                                            | -                                                                      |
|                           | Filter cleaning reminder sign display          | ●                                                                          | ●                                                                     | ●                                                                    | -                                                                            | -                                                                      |

(\*1) Available when the controller is connected with selected indoor unit offering this feature.

Individual controllers

NEW  
Advanced color wired remote controller (PC-ARFG1-A)

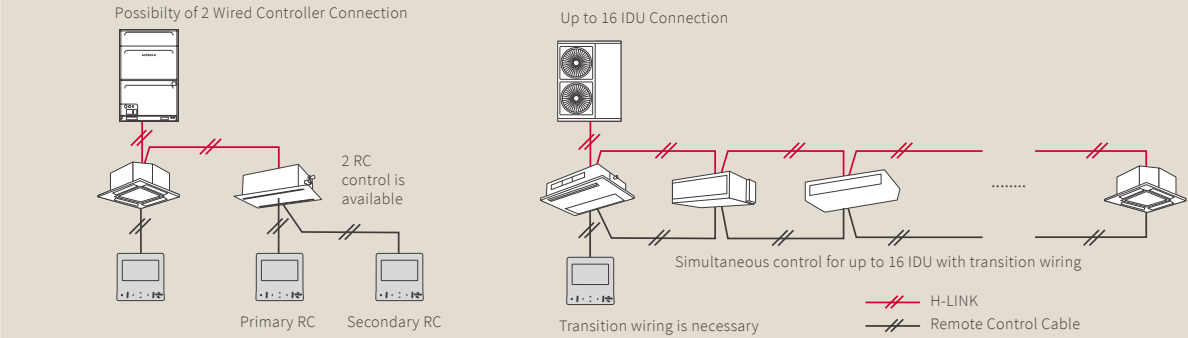


Outer dimensions (H×W×D)  
120\*×120×16.5mm (thinnest)  
120\*×120×21.5mm (thickest)

\*H is the height of the unit from the front, without the protrusion at the bottom.



System configuration example

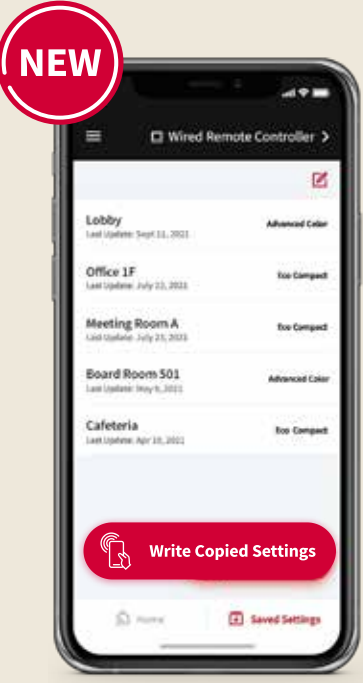


Functions

|                        |                                            |                                              |                                    |                                              |                           |
|------------------------|--------------------------------------------|----------------------------------------------|------------------------------------|----------------------------------------------|---------------------------|
| Function menu          | Simple Timer                               | Service and installation menu / Service      | Lock Function                      | Service and installation menu / Installation | Setting Initialization    |
|                        | Operation Schedule                         |                                              | Password Setting <b>NEW</b>        |                                              | Main Remote Setting       |
|                        | Power-Saving Setting                       |                                              | Hotel Mode <b>NEW</b>              |                                              | Priority Setting          |
|                        | Night Quiet Operation                      |                                              | Power Saving Detail Setting        |                                              | Cancel Preheating Control |
|                        | Power-Saving/Night Quiet Schedule          |                                              | Temperature Range Restriction      |                                              | Elevating Grille Setting  |
|                        | Autoboost                                  |                                              | Dual Setpoint                      |                                              | Power Up Setting          |
|                        | Comfort Setting                            |                                              | Main/Sub Display                   |                                              | Setback Trigger Unit      |
|                        | Motion Sensor Setting                      |                                              | Set Room Name                      |                                              | Check 1                   |
|                        | Setback Setting                            |                                              | Set Contact Information            |                                              | Check 2                   |
|                        | Elevating Grille                           |                                              | NFC Setting <b>NEW</b>             |                                              | Alarm History Display     |
|                        | Reset Filter Reminder Time                 |                                              | Simple Maintenance                 |                                              | Display Model Number      |
|                        | Filter cleaning                            |                                              | Test Run                           |                                              | Check PCB of the Units    |
|                        | FrostWash™ Setting <b>NEW</b>              |                                              | Function Selection                 | Service and installation menu / Check        | Self Check                |
|                        | Individual Louver Setting                  |                                              | Input/Output                       |                                              |                           |
|                        | Louver Open/Close                          |                                              | Thermistor Selection               |                                              |                           |
| Screen Display setting | Ventilation                                | Service and installation menu / Installation | Thermistor Calibration <b>NEW</b>  |                                              |                           |
|                        | Total Heat Exchanger SET                   |                                              | Fan Speed at Thermo-Off <b>NEW</b> |                                              |                           |
|                        | Adjust Date/Time                           |                                              | Indoor Unit Address Change         |                                              |                           |
|                        | Run Indicator Brightness                   |                                              | Address Check Operation            |                                              |                           |
|                        | Display Adjustment                         |                                              | Address Initialization             |                                              |                           |
|                        | Temperature                                |                                              |                                    |                                              |                           |
|                        | Language Setting                           |                                              |                                    |                                              |                           |
|                        | Chinese (Simplified/Traditional), Japanese |                                              |                                    |                                              |                           |
|                        | English(C/F), French, Portuguese, Spanish  |                                              |                                    |                                              |                           |

airCloud Tap: Use your phone to set the Controller!

The Advanced Color Controller is NFC-enabled, simplifying the setup and maintenance via the airCloud Tap app. The app offers illustrations, visual guides and descriptions, saving you time and making the process easier than ever.



App highlights

Installation & commissioning



**Room address**  
Use your mobile phone's keypad to quickly type in each room name.

**Date/Time setting**  
Import time and date settings from your mobile phone directly into the Advanced Color Controller.

airCloud Tap time-saving tip

Save your setting preferences inside the app to quickly apply them again later. A simple tap is all it takes to copy, paste and apply your saved settings. This is particularly useful for multiple zones with similar needs, e.g. hotel guestrooms, office meeting rooms, condominium units, etc. Users can specify all the settings for one zone, save them, then apply these settings to other zones in one tap.

Simple 4-step 'Read & Write' process

Operation



**Function selection**  
Browse over 140 features and edit settings quickly via the app.

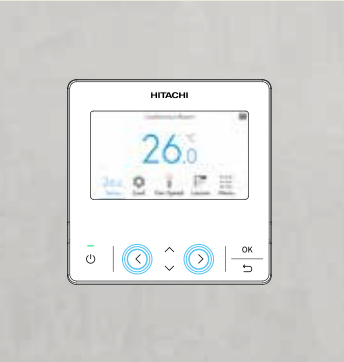
**Scheduling**  
View weekly schedules clearly and make quick adjustments easily.

Maintenance & service



**Troubleshooting**  
Complete service check data is displayed including connected indoor and outdoor units, refrigeration cycle information, sensor data, and more.

**Error alarm & history**  
Error alarm codes and their descriptions are displayed on the app; error histories can be forwarded to support the servicing of controllers.



1 Activate the NFC function on the controller.



2 Open the airCloud Tap app and tap the controller with your phone to create a connection.



3 Edit the desired settings on your phone. You don't need to be close to the controller while editing.



4 Tap the controller with your phone to write the new settings and apply them to the controller.

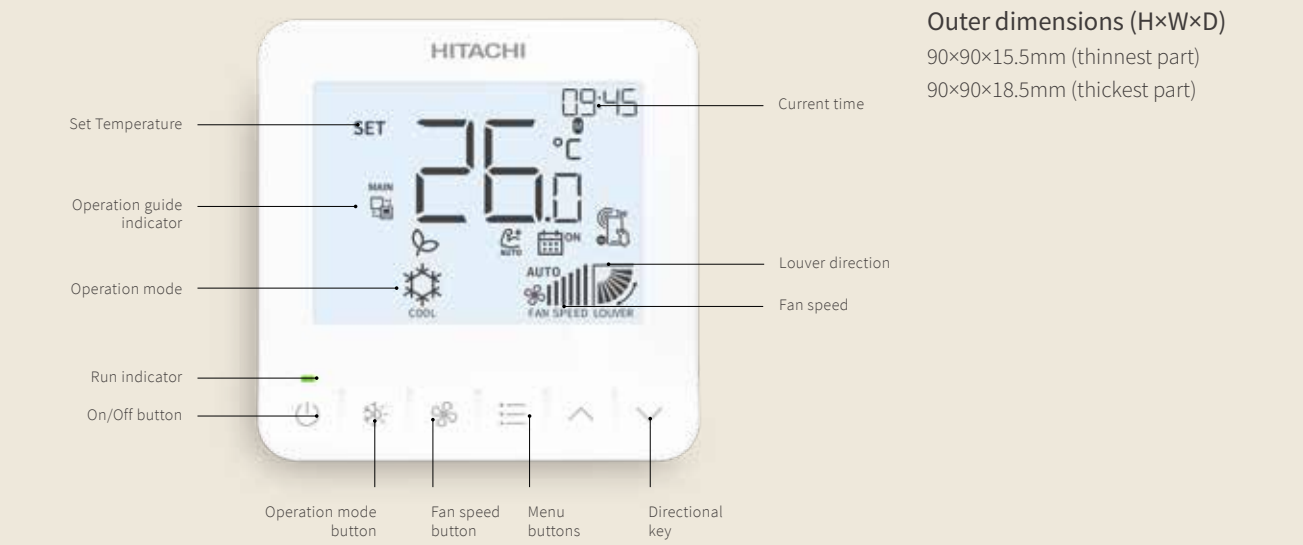


airCloud Tap is available for free in Google Store and IOS appstore. Quick sign up with minimal personal information.

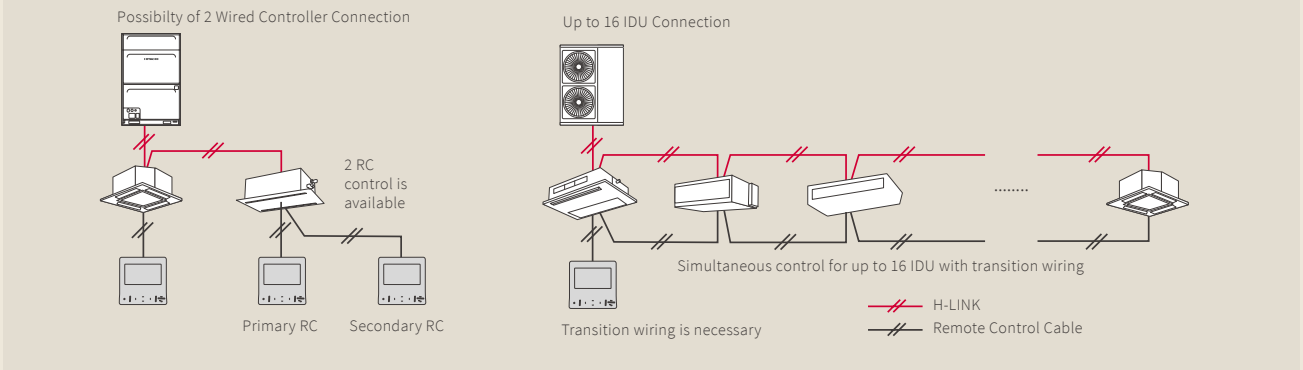


Advanced Color wired remote controller (PC-ARFG1-A)

NEW  
Eco-Compact Controller (PC-ARC-A)



System configuration example



Functions

|                        |                                                          |                                                   |                                                                                                                                                                                            |
|------------------------|----------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Controller setting     | Current time display                                     | Operation schedule                                | Prohibition after forced stop                                                                                                                                                              |
|                        | Clock synchronization with central controller <b>NEW</b> | schedule ON/OFF                                   | Alarm monitor, Alarm reset                                                                                                                                                                 |
|                        | Room Temperature display                                 | Simple timer                                      | Alarm history                                                                                                                                                                              |
|                        | °C/°F unit selection                                     | Sleep Mode timer <b>NEW</b>                       | Emergency operation                                                                                                                                                                        |
|                        | Backlight                                                | Comfort setting (GentleCool)                      | Indoor unit address and refrigerant system No. change                                                                                                                                      |
|                        | Embedded IR receiver <b>NEW</b>                          | AutoBoost                                         | Check 1, Check 2 (troubleshooting)                                                                                                                                                         |
|                        | Embedded thermistor                                      | Individual louver control (for ceiling cassettes) | Controller Self-check                                                                                                                                                                      |
| Essential AC controls  | NFC airCloud Tap communication <b>NEW</b>                | Power saving setting (Peak-cut)                   | The Eco-compact controller does not support the following functions: cassette elevating grille, FrostWash, and motion sensor-related features. Please note this is not an exhaustive list. |
|                        | Language: English (+ Arabic in PC-ARC-U)                 | Filter sign (time) reset                          |                                                                                                                                                                                            |
|                        | Start/Stop                                               | Function selection                                |                                                                                                                                                                                            |
|                        | Set temperature                                          | Test run                                          |                                                                                                                                                                                            |
| Installation & service | Louver position (air flow direction)                     | Input & output settings                           |                                                                                                                                                                                            |
|                        | Fan Speed                                                | Operation lock                                    |                                                                                                                                                                                            |
|                        | Operation Mode                                           | Temperature upper and lower limits                |                                                                                                                                                                                            |

Individual controllers

Wired remote controller (HCWA10NEGQ)

Temperature display

Room temperature

RT 26.0°C RT 79.0°F

Set temperature

SET 26.0°C SET 79.0°F

ON/OFF button

Mode button

Operation mode

Cooling mode

Heating mode

Dry mode

Fan mode

Auto mode

Fan speed setting

Timer/Clock setting

Fan speed

(flickering)

MAX

MIN

Timer setting

ON

OFF

ONCE

DAILY

WEEKLY

Timer ON

Timer OFF

Timer valid for one time

Timer valid for one day

Timer set for a week

Liquid Crystal Display (LCD) screen

Up button & down button

Outer dimensions (H×W×D)  
(mm) 88.0×88.0×15.5

Functions

|            |                                                |
|------------|------------------------------------------------|
|            | Run/Stop                                       |
|            | Operation Mode                                 |
|            | Auto Mode Setting                              |
|            | Temperature Setting                            |
| Setting    | Temperature Setting Rate 0.5°C/1.0°C/1.0°F     |
|            | Back-light screen                              |
|            | Fan Speed 3/4/6 taps                           |
|            | Louver Direction                               |
|            | Key touch sound                                |
| Service    | Sensor Condition Check                         |
|            | Sensor Data Check                              |
|            | Alarm History Display                          |
|            | Test Run                                       |
| Test Run   | Function Selection (Optional Function Setting) |
|            | Thermistor Selection                           |
|            | Thermistor Calibration                         |
|            | Input / Output Setting                         |
| Management | Indoor Unit Address Change                     |
|            | Operation Lock/Set                             |
|            | Lower Limit for Cooling Operation              |
| Schedule   | Upper Limit for Heating Operation              |
|            | Simple Timer (On/Off)                          |
|            | Date/time setting                              |

Notes:  
1. Fan speed taps setting unit availability varies with the indoor unit. Please check each technical catalog in advance.  
2. Initial setting of temperature display is "Set temperature" display only. Please contact your dealer to display room temperature.

Advanced wireless remote controller (PC-AWR)

Transmitter

Mode selection switch

Reset switch

Timer switches

Transmitting indication

LCD (Liquid Crystal Display)

Fan speed switch

On switch

Off switch

Louver angle switch

Temp. switch

Filter reset switch

Outer dimensions (H×W×D)  
(mm) 140.0×55.0×16.8

Functions

|         |                                            |
|---------|--------------------------------------------|
|         | Run/Stop                                   |
|         | Operation Mode                             |
|         | Auto Mode Setting                          |
|         | Temperature Setting                        |
| Setting | Temperature Setting Rate 0.5°C/1.0°C/1.0°F |
|         | Fan Speed 3/4/6 Taps                       |
|         | Louver Direction                           |
|         | Filter Sign Reset                          |
|         | Side-by-side indoor unit identification    |
| Service | Temperature Unit °C/°F                     |
|         | Built-in Timer (On/Off)                    |

Wireless remote controller (PC-LH7QE2)

Transmitter

Run/Stop switch

Timer switches

Transmitting indication

LCD (Liquid Crystal Display)

Temp. switch

Louver angle switch

Reset switch

Outer dimensions (H×W×D) (mm) 140.0×52.0×19.3

Functions

|         |                                         |
|---------|-----------------------------------------|
|         | Run/Stop                                |
|         | Operation Mode                          |
|         | Auto Mode Setting                       |
| Setting | Temperature Setting                     |
|         | Temperature Setting Rate 1.0°C          |
|         | Fan Speed 3/4/6 Taps                    |
|         | Louver Direction                        |
|         | Side-by-side indoor unit identification |
| Service | Temperature Unit °C                     |
|         | Built-in Timer (On/Off)                 |

Receiver kit for wireless remote controller

| Receiver Kit Model                    | HR4A10NEWQ     | PC-ALHC1               | PC-ALHD1       | PC-RLHN12QE    | Inbuilt                   | PC-RLH11                              | PC-RLH11        | Inbuilt                  |
|---------------------------------------|----------------|------------------------|----------------|----------------|---------------------------|---------------------------------------|-----------------|--------------------------|
| Description                           | 4-way cassette | 4-way cassette compact | 2-way cassette | 1-way cassette | Floor/Ceiling convertible | In-the-ceiling                        | Floor concealed | Hi wall                  |
| IDU type                              |                |                        |                |                |                           |                                       |                 |                          |
| Model                                 | RCI-FSKDNQ     | RCIM-FSN4              | RCD-FSR        | RCIS-FSKDNQ    | RPFC-FSNQ*                | RPIZ-HNATNQ<br>RPIL-FSNK<br>RPIM-FSNK | RPFI-FSNQ       | RPK-FSNK1/2<br>RPK-FSN4M |
| Compatible wireless remote controller | PC-AWR         |                        |                |                |                           |                                       |                 |                          |
|                                       | PC-LH3E        |                        |                |                |                           |                                       |                 |                          |
|                                       | PC-LH7QE2      |                        |                |                |                           |                                       |                 |                          |

\* Wireless remote controller is provided as standard item for RPFC-FSNQ models.  
Centralized controller (mini) cannot be operated when you use standard receiver kit (PC-RLH11) equipped with wireless remote controller (PC-LH3C).  
Notes:-  
When you use standard receiver kit (PC-RLH11 or HR4A10NEWQ) equipped with wireless remote controller (PC-LH3C):  
1) Setting Hi2 air flow rate is not available even if the connected Indoor Unit has Hi2 air flow rate setting.  
2) It is not available to set up "remote control switch operation prohibited by each function setting" from central station (mini).  
3) It is not available to set up "remote control switch temperature setting range limitation function" from central station (mini).

# H-LINK: enjoy more freedom

## What is H-LINK?

H-LINK is Hitachi Cooling & Heating original communication system to control multiple VRF refrigerant systems from one centralized control point.

H-LINK simplifies commissioning and service maintenance for installers and service engineers. For building owners and occupants, it provides outstanding versatility enabling the connection of various types of central control options, enabling better system management. Our proprietary high-performance communication system enables the connection of control wiring between indoor and outdoor units, and between a centralized control system and indoor/outdoor units across two or more refrigerant systems.

## Examples



Educational institutions such as primary schools where installation work cannot be performed on weekdays.



Hotels where it is preferable to complete installation work during late evenings.



Rehabilitation facilities or hospitals where it is necessary to minimize the burden on users.

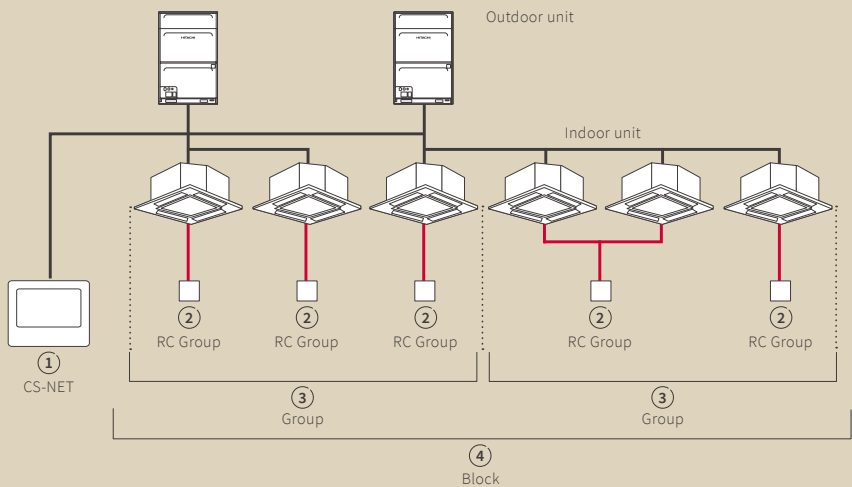
3x  
more  
benefits!

1  
Flexible wiring  
routes:  
no restrictions &  
time-saving  
at installation.

2  
Can connect  
with various types of  
Hitachi air conditioning  
products, including VRF  
and mini splits,  
for centralized controls.

3  
No adapter  
is needed!  
Simple connection  
to terminal blocks.

## Definition of terms in Hitachi centralized control systems



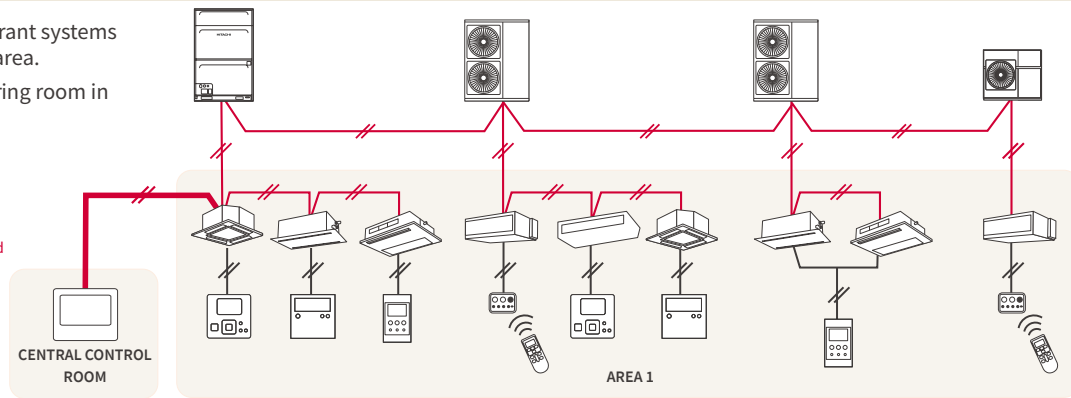
- ① CS-NET/Central station  
→ Hitachi original centralized controller.
- ② RC Group (Remote Controller System Group)  
→ Stands for a number of indoor units (up to 16 units) connected using "same remote controller" wiring. In this group, connected indoor units are all controlled in the same way.
- ③ Group  
→ Stands for the multiple "RC groups" that are registered in the centralized controller network setting.
- ④ Block  
→ Stands for the multiple "groups" that are registered in the centralized controller network setting.

## Centralized controls: Flexible wiring route!

- (1) Multiple refrigerant systems located in one area.
  - Central monitoring room in separate area.

### H-LINK SOLUTION

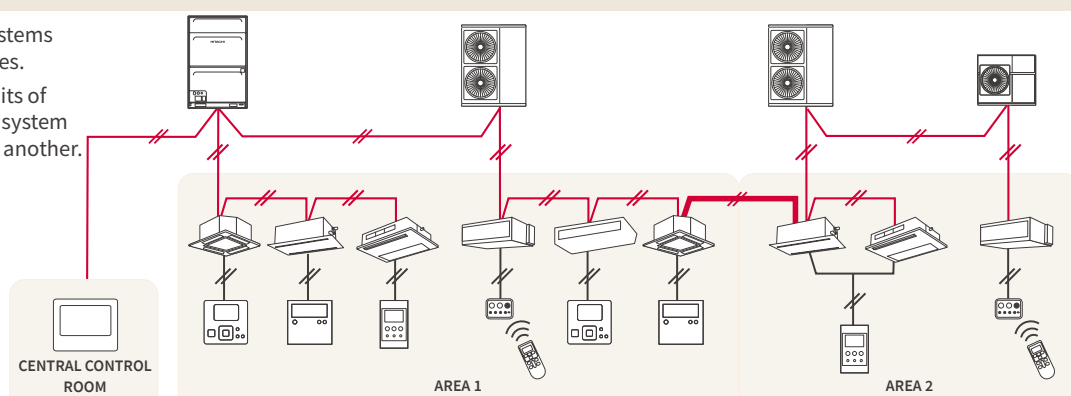
- Wire the central station to the closest indoor unit.
- Wiring distance is reduced substantially.



- (2) Refrigeration systems in different places.
  - Some indoor units of each respective system are close to one another.

### H-LINK SOLUTION

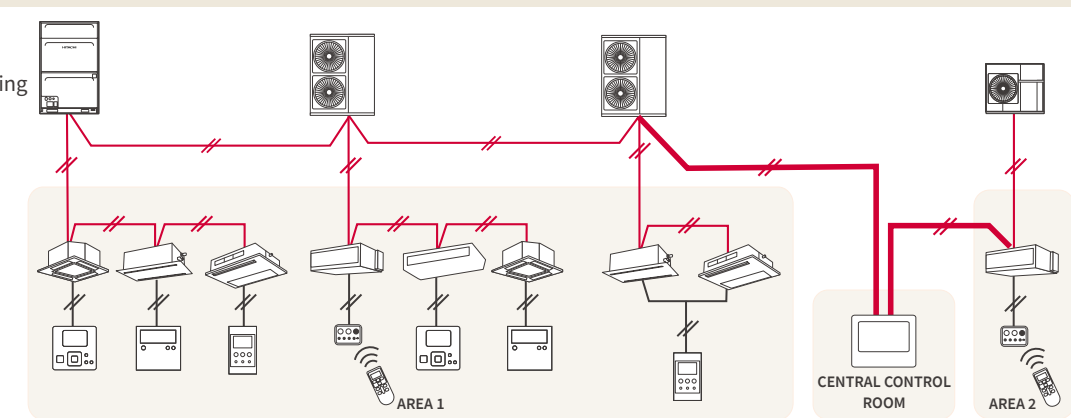
- Where two indoor units of each respective system are close together: you can connect two refrigerant systems via the indoor units.
- Wiring distance is reduced substantially.



- (3) One refrigerant system far away from the remaining ones.

### H-LINK SOLUTION

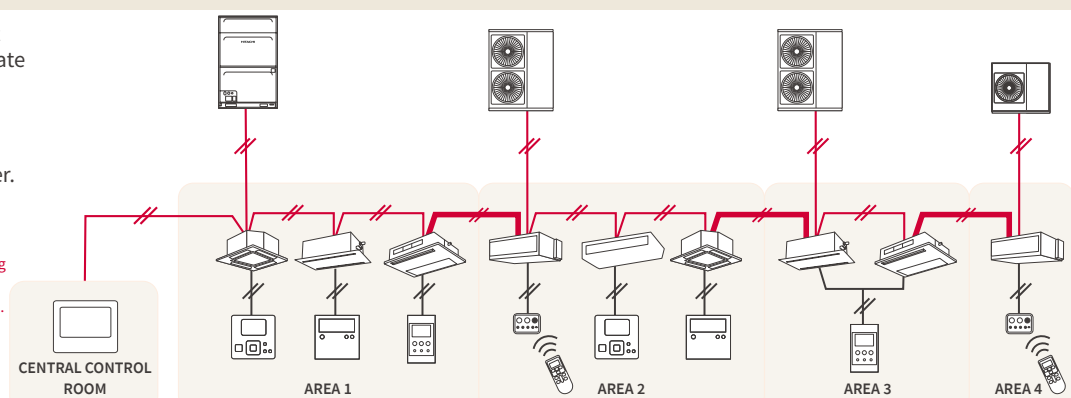
- Connect the farthest refrigerant system directly to central station either to outdoor units or indoor units.
- The central station can make the central link between the different refrigerant systems.



- (4) Each refrigerant system in separate areas.
  - Indoor units are closer from one group to another.

### H-LINK SOLUTION

- Centralized control can be achieved by connecting the refrigerant systems via the closer indoor units.
- Wiring can be indoors only.



H-LINK solution H-LINK Remote control cable

# NOTES

# NOTES