HITACHI



VARIABLE REFRIGERANT FLOW SYSTEM **HEAT PUMP & COOLING MODEL**

Cooling & Heating

NEW

Johnson Controls-Hitachi Air Conditioning India Limited

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ANDROID APP ON Available on the App Store

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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.

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catalogue are merely suggestive. Johnson Controls-Hitachi Air Conditioning India Limited declines any responsibility in the broadest sense, for any loss/damage, direct or indirect, arising from the use and/or interpretation of the recommendations in this catalogue. Reference to cooling capacity in TR or Tr. is in general parlance for Tonnage Class only. For exact cooling capacity in Watts, kindly refer specifications sheet.

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

Discover Hitachi Cooling & Heating products accompanied by best service at your nearest dealer/retail outlet.



03

Message

11

Outdoor units

- 15 | End-to-end solution
- 39 | Outdoor unit line up overview

53

Indoor units

- 59 | Ceiling Cassettes 67 | In-ceiling cassettes & Concealed
- 70 | Exposed

79

Ventilation

- 83 | Ventilation Solutions
- 85 Dx-kit

87

Controllers

- 89 | Centralized controllers
- 95 | Individual controllers
- 102 | Accessories
- 103 | H-link



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.

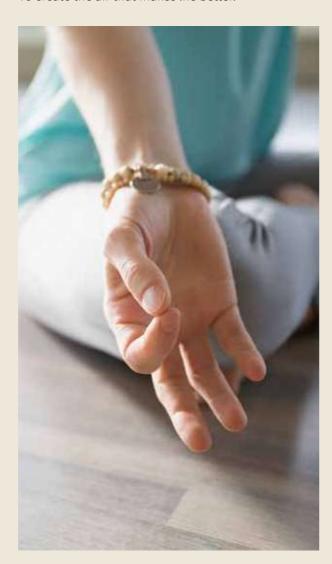
When the air around you is in balance, you can enjoy life indoors that much more.

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.

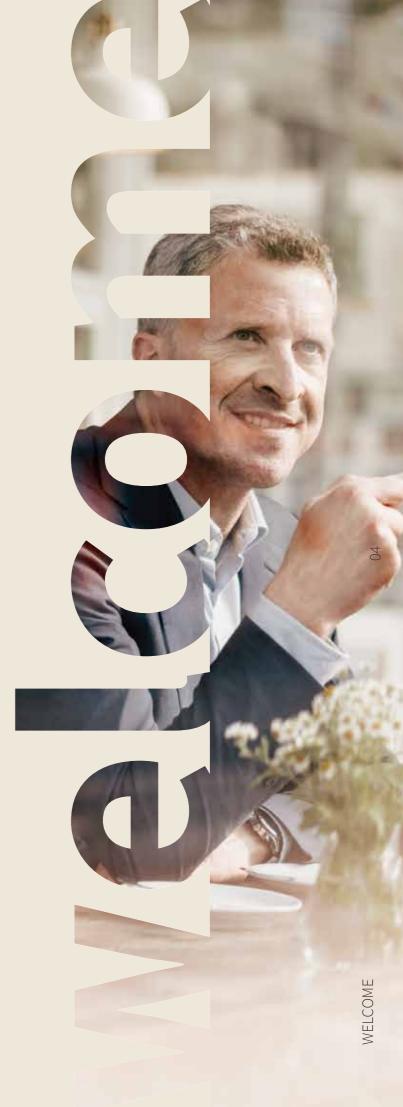
We call this 'Living Harmony' and it's at the center of everything we do.



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

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.





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 (1.2m² 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 energyconsumption 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 (1.2m² 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 smallerfootprint 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 energyconsumption 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 copypaste 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



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 energyconsumption 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

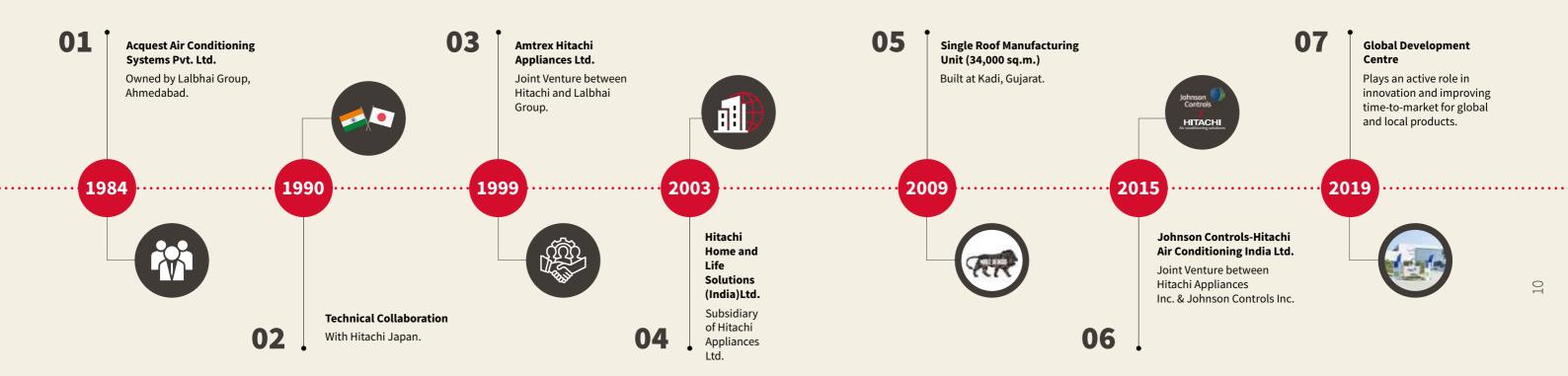
OPERATE

- 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 awardwinning 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

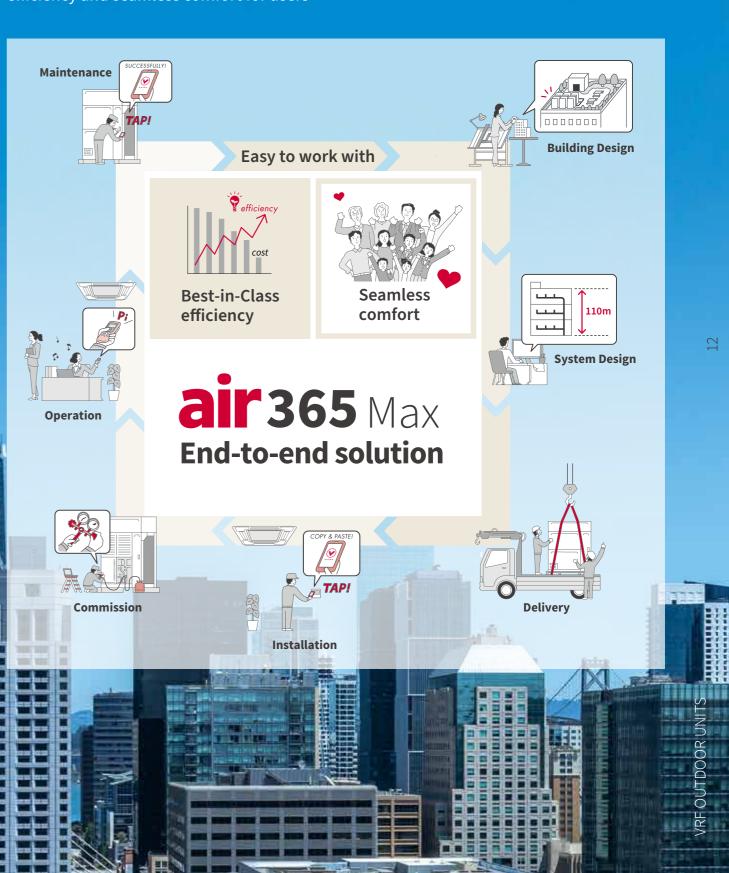




End-to-end solution Best-in-class efficiency Easy to work with **Seamless comfort Boost your energy efficiency** Enjoy the perfect air anywhere, anytime Outdoor unit line up overview **Specifications** 41 Option / Accessories HITACHI

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



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



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.







Tube



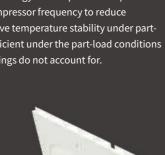


Strong structure Resistant up to 60m/s (134mph)

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.

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 partload conditions. Up to 39% more efficient under the part-load conditions that regulatory energy efficiency ratings do not account for.





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.



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.



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
- During oil return mode, indoor units can continue to operate normally







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 CO₂ 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 partload operation with SmoothDrive 2.0
- √ Neighborhood-friendly outdoor unit with 3dB(A) lower noise output in average by Night Shift Mode in average

SEAMLESS COMFOR

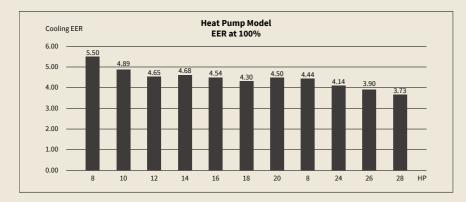
Boost your energy efficiency

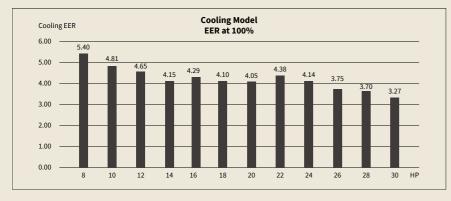
With air365 Max, discover how you can make significant improvements in your energy consumption fee.

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

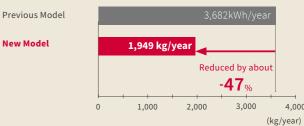
Comparison of (for a system equivalent to 10HP class (28.0kW)) Between [RAS-FSN Hitachi inverter VRF of 15years ago] VS [air365 Max RAS-HNCC**]



CO₂ emissions

CO₂ emission reduction

(for a 10HP class (28.0kW) equivalent system)



- 1. Both simulation of Seasonal power consumption & CO₂ 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)
- 2. The CO₂ emissions coefficient is 0.441 kg-CO₂/kWh. Based on Electric Power Industry Council for a Low Carbon Society in FY20
- 3. As reference in Japanese domestic model

Less refrigerant required

(AC usage: 6days per week, 8am to 8pm)

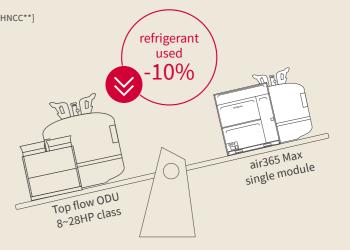
· Uses 10% less refrigerant in average*

Comparison of (for a system equivalent to 16HP class (45.0kW))

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.



- 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



BEST-IN-CLASS EFFICIENCY

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.

(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...

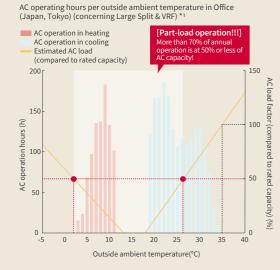


This causes VRF systems to operate at partial load

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.



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

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

mproved 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.



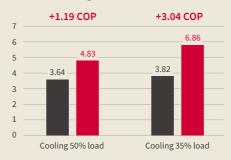
smoother compressor operation

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

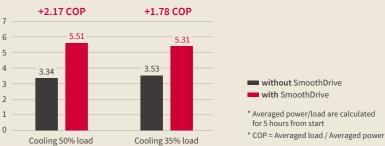
Real-world energy efficiency**

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

COP in Cooling mode



COP in Heating mode



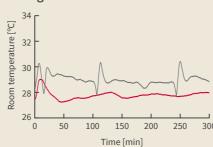
without Smooth Drive with SmoothDrive

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

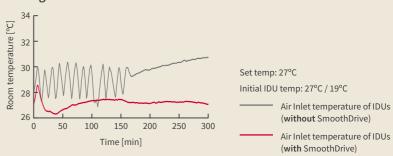
Temperature stability**

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



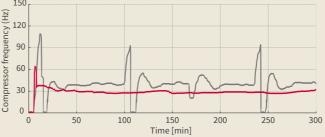
without SmoothDrive

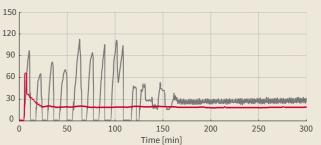
Smoother compressor operation**

Compressor rotation frequency is more precise and stable.

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







^{**} 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

Please refer to the leaflet for details

BEST-IN-CLASS EFFICIENCY

with SmoothDrive

20

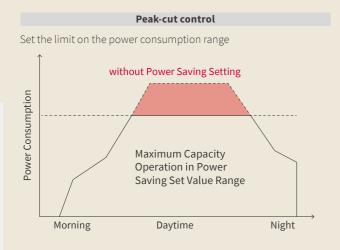
Demand control

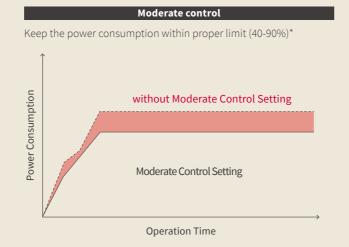
- · Manage your electricity during peak periods
- Peak-cut Control
- · Moderate Control

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.





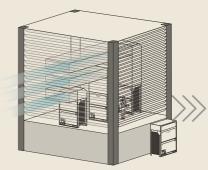
* Power Saving Set Value It can be selected from 100%, 90%, 80%, 70%,60%, 50%, and 40% of reference power consumption.

Thanks to 200% IDU connection ratio

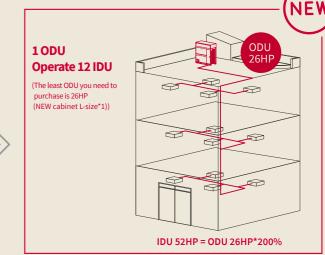
In case that IDU total capacity are 52HP

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%



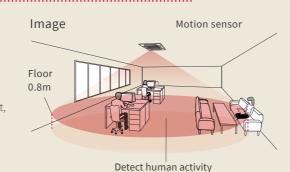
* above 130% contact sales team or Channel partner/Dealer

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

When there are no people

time, the air conditioning

for a certain period of

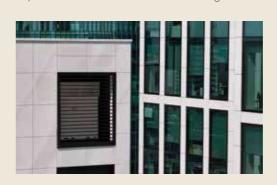
is even more modest

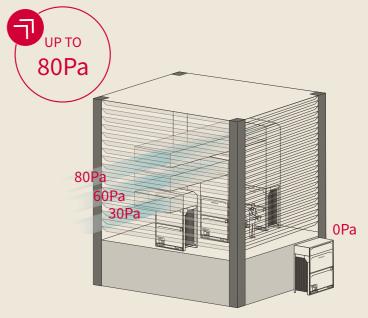
If the absence continues for more than 30 minutes, the operation can be stopped by setting

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.





Save more

Forgetting to turn off

when people return

22

System Design

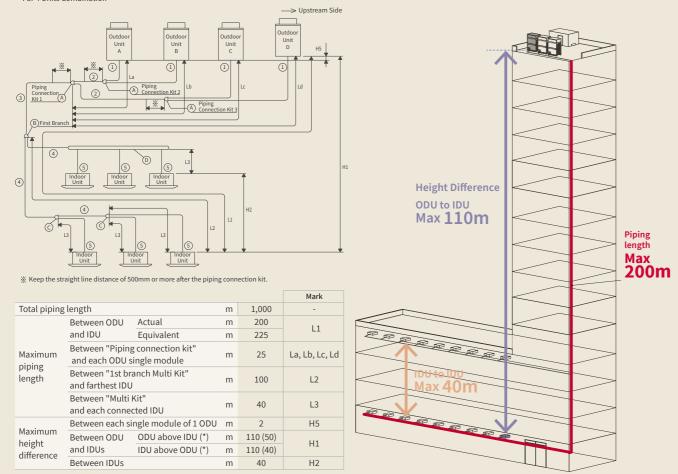
More flexible piping configuration

- · 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 >



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



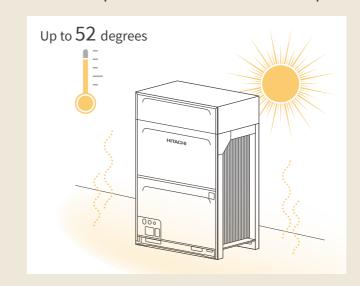
Anytime & Anywhere

- 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

Winter temperature





Cooling operation from up to 52°C ambient temperature

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

Anti-Corrosion Cabinet + Gecko-proof treatment

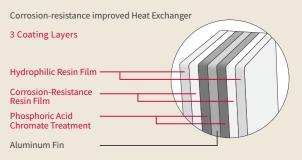
If your project is located in an extreme weather environment, consider applying an anti-corrosion treatment to your air365 Max outdoor units. Treatment can be arranged in factory based on the JRA9002 standard, with multiple layers on every component of the unit. With this treatment, the life expectancy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



Corrosion Resistance

Life-expectancy comparison In salty-air-location





- *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

26



System Design



reddot winner 2022 interface design

air Cloud 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.hitachiaircon.com





Choice of piping direction

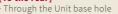
• 4 directions, 9 options

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.



- Through the piping port on the front
- panel cover Through the Unit base hole
- [To the right]
- Through the piping port on the front
- From bottom of the cabinet
- · Through the Unit base hole

- · Through the piping port on the front
- · From bottom of the cabinet
- Through the Unit base hole [To the rear]



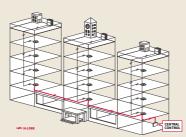


H-LINK: flexible route of communication wiring

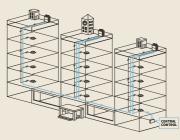
Faster wiring with H-LINK

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



air Cloud Tap

- · 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

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!

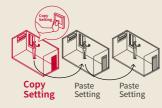
the outdoor unit and individual controllers

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.

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







Operation

Monitoring app air Cloud Pro



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



✓ 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

(PC-ARC-*)

ECO-COMPACT CONTROLLER



Value without compromise

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







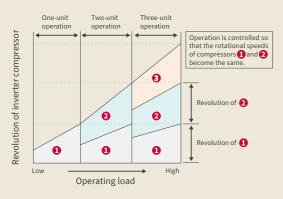
Maintenance

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)



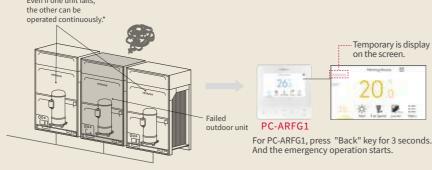
- *1 At least 2 outdoor units are required for this function.
- *2 Comparison between the rotation operation function and non-rotation operation function based on the same system.

ON OFF ON CHECK! Rotate after checking the operating condition of the compressor ON ON OFF ON ON

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.



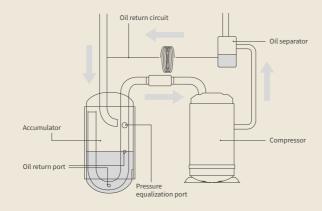
^{*} Emergency operation cannot be performed within 8 hours after unit stoppage.

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





DESIG AWARE

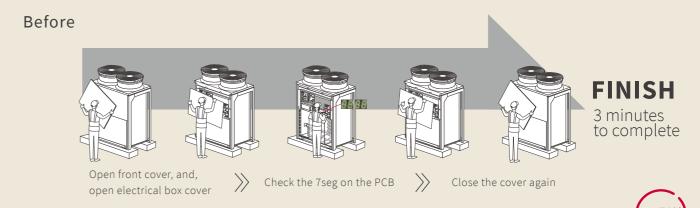
- 6X faster access to unit operational data*
- 80% time reduction (ODU data check)

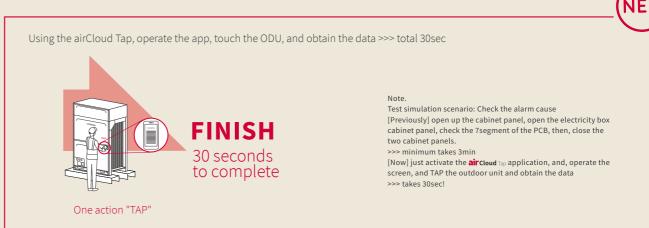
Previously, a maintenance engineer would need to open both the front panel of the cabinet and electricity box panel, then check error codes on the PCB.

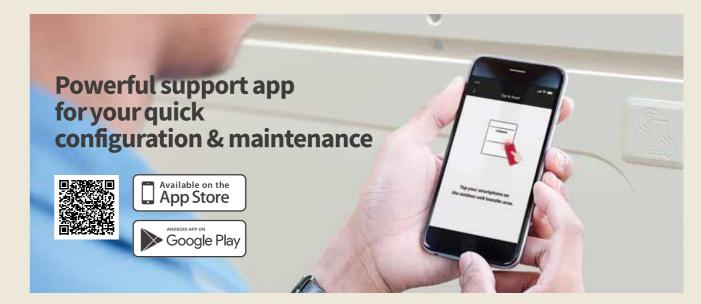
Now with the airCloud Tap app, an engineer can simply 'tap' the outdoor units with their smartphone to access a full range of configuration settings and download operational data if required for basic troubleshooting.

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.







Low Noise Operation

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

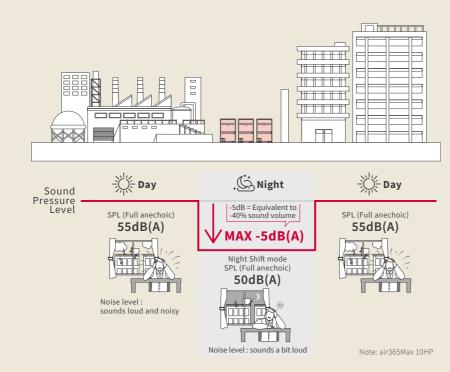
Balance is the key to harmony, so air365 Max incorporates features to ensure a more peaceful environment, both indoors and out. Enjoy quiet comfort indoors with less disturbance to the outside environment. You can set this feature from your individual controller easily.

 $\# Normal\ Sound\ Pressure\ (SPL)\ in\ Full\ Anechoic\ VS\ \# Night-shift\ mode\ (SPL)\ in\ Full\ Anechoic$

mode (SPL) in Full Allection.

Average -3.0dB(A)

Reference; Architectural Institute of Japan "Sound insulation performance standards and design guidelines for buildings"

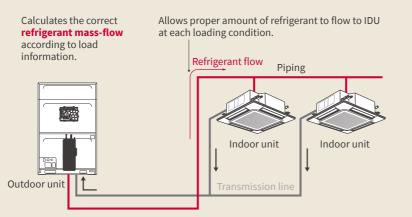




© DIRECT capacity control SmoothDrive 2.0

 Constant indoor temperature even during part-load operation

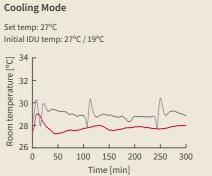
With continuous monitoring and adjustment of the capacity based on compressor speed, indoor temperatures can be maintained more accurately.



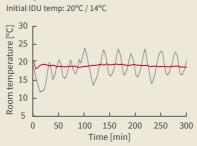
- $\bullet \ \mathsf{SmoothDrive} \ \mathsf{helps} \ \mathsf{the} \ \mathsf{scroll} \ \mathsf{compressor} \ \mathsf{to} \ \mathsf{run} \ \mathsf{continuously} \ \mathsf{and} \ \mathsf{smoothly} \ \mathsf{even} \ \mathsf{at} \ \mathsf{part-load} \ \mathsf{condition}.$
- Our original load-speculation technology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



50% Load

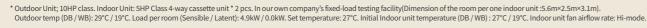


Heating Mode Set temp: 20°C



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





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-BACTERIA



*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

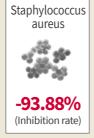




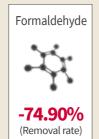


Escherichia coli











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 Heating mode Cooling mode is adopted. Ignored except first push.	Cooling Heating Heating mode Cooling mode mode Cooling mode wode Heating mode 2 units adopted	Cooling Heating mode mode Δ4°C Δ1°C Δ1°C Cooling mode A4°C Δ2°C Adopted	Priority indoor unit requests cooling mode adopted adopted adopted adopted

Example of 3 modes

• Majority mode

Demand

Result

Under the conditions

Request for cooling mode: 2 units

Request for heating mode: 6 units

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

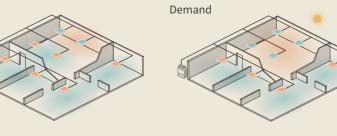
2 Larger gap mode

Heating demand: temp. differences is total Δ5°C

3 Priority unit mode

Under the conditions

Priority indoor unit requests cooling mode













Adopted Cooling mode

Result







^{*} Applicable for HAPQ Ducted IDU only



Specifications Heat Pump

S



-

Capacity rang	e		Unit	8HP class	10HP class	12HP class	14HP class	16HP class	18HP class	20HP class	22HP class	24HP class	26HP class	28HP class
Outdoorunit	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 m	odules			-	-	-	-	-	-	-	-	-	-	-
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
Weight	Gross weight		kg	226	231	245	302	303	303	388	388	388	414	414
	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
Noise	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)
	Rated air volume		m³/min	175	175	198	239	256	263	329	329	348	375	375
Outdoor unit Fan	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
	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
Main pipe size		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 meth	nod	-	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection
Operating temperature	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
range	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 Externa	al static pressure		Pa	80	80	80	80	80	80	80	80	80	80	80
Maximum Total p	ping length		m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Туре		-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant	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
Kerrigerune	Maximum additional ch	arge 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 mod	le	-	Microcomputer-contr	rolled electronic expan	sion valve		Microcomputer-cont	olled electronic expansi	on valve				
Refrigerant oil	Туре		-	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
	Connected capacity rati	0	%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%
With Indoor Unit	Maximum Number of co (recommended number	nnectable units 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

MS

MM



LM



LL



Capacity rang	ge		Unit	30HP class	32HP class	34HP class	36HP class	38HP class	40HP class	42HP class	44HP class	46HP class	48HP class	50HP class
Outdoor unit	model			RAS-300HNCCLI	RAS-320HNCCLI	RAS-340HNCCLI	RAS-360HNCCLI	RAS-380HNCCLI	RAS-400HNCCLI	RAS-420HNCCLI	RAS-440HNCCLI	RAS-460HNCCLI	RAS-480HNCCLI	RAS-500HNCCLI
Combination of m	nodules			RAS-180HNCCLI RAS-120HNCCLI	RAS-180HNCCLI RAS-140HNCCLI	RAS-180HNCCLI RAS-160HNCCLI	RAS-180HNCCLI RAS-180HNCCLI	RAS-220HNCCLI RAS-160HNCCLI	RAS-220HNCCLI RAS-180HNCCLI	RAS-240HNCCLI RAS-180HNCCLI	RAS-220HNCCLI RAS-220HNCCLI	RAS-240HNCCLI RAS-220HNCCLI	RAS-240HNCCLI RAS-240HNCCLI	RAS-260HNCCLI RAS-240HNCCLI
Power supply			-	3N~ 380-415V 50Hz										
Cooling capacity			kW	83.9	90.4	95.4	100.8	106.5	111.9	117.4	123.0	128.5	134.0	140.0
Heating capacity			kW	93.5	101.0	106.0	112.0	119.0	125.0	133.5	138.0	146.5	155.0	159.0
Outer dimensions	s (W x D x H)		mm	2230×775×1805	2490×775×1805	2490×775×1805	2490×775×1805	2880×775×1805	2880×775×1805	2880×775×1805	3270×775×1805	3270×775×1805	3270×775×1805	3270×775×1805
Weight	Net weight		kg	282+226	282+281	282+281	282+282	364+281	364+282	364+282	364+364	364+364	364+364	390+364
	Gross weight		kg	303+245	303+302	303+303	303+303	388+303	388+303	388+303	414+388	414+388	414+388	414+388
	Cooling rating	SPL (Full-anechoic)	dB(A)	62	63	64.0	64.0	65	65	64.0	66	65	64.0	65
Noise	Night shift mode (noise reduction setting)	SPL (Full-anechoic)	dB(A)	58	60.0	61	60.0	61	60.0	60.0	60.0	60.0	60.0	62
Compressor	Compressor type		-	Hermetic (Scroll)										
	Rated air volume		m³/min	263+198	263+239	263+256	263×2	329+256	329+263	348+263	329×2	348+329	348×2	375+348
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	0.38×2+0.43	0.38×2+0.3×2	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
	Heat pump	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	Treat paintp	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 meth	hod	-	Brazing connection										
Operating temperature	Cooling		°C DB	-5°C ~52°C										
range	Heating		°C WB	-15°C~16°C										
Maximum Externa	al static pressure		Pa	80	80	80	80	80	80	80	80	80	80	80
Maximum Total p	iping length		m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Туре		-	R410A										
Refrigerant	Initial charge amount		kg	18.5	19.1	19.7	20.4	20.7	21.4	21.7	22.4	22.7	23.0	23.0
	Maximum additional ch	arge amount	kg	56.5	56.5	56.5	56.5	56.5	56.5	56.5	63.0	63.0	63.0	63.0
	Refrigerant control mod	le	-	Microcomputer-contr	olled electronic expan	sion valve		Microcomputer-contr	rolled electronic expans	ion valve				
Refrigerant oil	Туре		-	FVC68D										
	Charge amount		L	12.9	13.8	13.8	13.8	15.3	15.3	15.3	16.8	16.8	16.8	16.8
	Connected capacity ratio	0	%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%
With Indoor Unit	Maximum Number of co (recommended number	onnectable units of units)	-	64 (32)	64 (32)	64 (32)	64 (32)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)
	Connectable minimum	capacity	-	0.6HP class										
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Specifications Heat Pump





Capacity rang	ge		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 n	nodules			RAS-260HNCCLI RAS-260HNCCLI	RAS-280HNCCLI RAS-260HNCCLI	RAS-280HNCCLI RAS-280HNCCLI	RAS-220HNCCLI RAS-180HNCCLI RAS-180HNCCLI	RAS-240HNCCLI RAS-180HNCCLI RAS-180HNCCLI	RAS-220HNCCLI RAS-220HNCCLI RAS-180HNCCLI	RAS-240HNCCLI RAS-220HNCCLI RAS-180HNCCLI	RAS-240HNCCLI RAS-240HNCCLI RAS-180HNCCLI	RAS-240HNCCLI RAS-220HNCCLI RAS-220HNCCLI	RAS-240HNCCLI RAS-240HNCCLI RAS-220HNCCLI	RAS-240HNCCLI RAS-240HNCCLI 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 dimension	s (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
	Cooling rating	SPL (Full-anechoic)	dB(A)	65.0	65.0	65.0	67	66	67	67	66	67	67	66
Noise	Night shift mode (noise reduction setting)	SPL (Full-anechoic)	dB(A)	63.0	63.0	63.0	62	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
	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	44.45
Main pipe size		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 met	hod	-	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection
Operating temperature	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
range	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 Extern	al static pressure		Pa	80	80	80	80	80	80	80	80	80	80	80
Maximum Total p	iping length		m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Туре		-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant	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
, and the second	Maximum additional cl	narge 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 mo	de	-	Microcomputer-conti	rolled electronic expan	sion valve		Microcomputer-contr	olled electronic expans	ion valve				
Refrigerant oil	Туре		-	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
	Connected capacity rat	io	%	50~200%	50~200%	50~180%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%
With Indoor Unit	Maximum Number of co (recommended number)	onnectable units or 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

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Specifications Heat Pump



Capacity rang	ge		Unit	74HP class	76HP class	78HP class	80HP class	82HP class	84HP class	86HP class	88HP class	90HP class	92HP class	94HP class
Outdoorunit	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 n	nodules			RAS-260HNCCLI RAS-240HNCCLI RAS-240HNCCLI	RAS-260HNCCLI RAS-260HNCCLI RAS-240HNCCLI	RAS-260HNCCLI RAS-260HNCCLI RAS-260HNCCLI	RAS-280HNCCLI RAS-260HNCCLI RAS-260HNCCLI	RAS-280HNCCLI RAS-280HNCCLI RAS-260HNCCLI	RAS-280HNCCLI RAS-280HNCCLI RAS-280HNCCLI	RAS-240HNCCLI RAS-220HNCCLI RAS-220HNCCLI RAS-180HNCCLW	RAS-240HNCCLI RAS-240HNCCLI RAS-220HNCCLI RAS-180HNCCLI	RAS-240HNCCLI RAS-240HNCCLI RAS-240HNCCLI RAS-180HNCCLI	RAS-240HNCCLI RAS-240HNCCLI RAS-220HNCCLI RAS-220HNCCLI	RAS-240HNCCLI RAS-240HNCCLI RAS-240HNCCLI RAS-220HNCCLI
Power supply			-	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 dimension	s (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
W. C. L.	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
Weight	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
	Cooling rating	SPL (Full-anechoic)	dB(A)	66	66	67	67	67	67	68	68	67.0	68	68
Noise	Night shift mode (noise reduction setting)	SPL (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)						
	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
Outdoor unit Fan	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+0.38×3	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
	Heatman	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
Main pipe size	Heat pump	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 met	hod	-	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection						
Operating temperature	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					
range	Heating		°C WB	-15°C~16°C	-15°C~16°C	-15°C~16°C	-15°C~16°C	-15°C~16°C						
Maximum Extern	al static pressure		Pa	80	80	80	80	80	80	80	80	80	80	80
Maximum Total p	iping length		m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Туре		-	R410A	R410A	R410A	R410A	R410A						
Refrigerant	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
Reiligerant	Maximum additional ch	arge 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 mod	de	-	Microcomputer-conti	rolled electronic expan	sion valve		Microcomputer-contr	rolled electronic expans	ion valve				
Refrigerant oil	Туре		-	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D						
Kenngerant oil	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
	Connected capacity rati	io	%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%
With Indoor Unit	Maximum Number of co (recommended number	onnectable units 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						

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Specifications Heat Pump

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Capacity ramps Unit 96HP class 98HP class 109HP	ELI RAS-280HNCCLI RAS-280HNCCLI RAS-280HNCCLI RAS-280HNCCLI RAS-280HNCCLI 310.0 344.0 344.0 6560×775×1805 390+390+390+390 414+414+414+414 68.0 66.0
Combination of modules RAS-260HNCCLI RAS-260HNC	CLI RAS-280HNCCLI RAS-280HNCCLI RAS-280HNCCLI RAS-280HNCCLI RAS-280HNCCLI RAS-280HNCCLI RAS-280HNCCLI SOHZ 310.0 344.0 355 6560×775×1805 390 390+390+390+390 414+414+414+414 68.0 66.0 60.0 Hermetic (Scroll)
Combination of modules	ILI RAS-280HNCCLI RAS-280HNCCLI RAS-280HNCCLI SOHz 3N~380-415V 50Hz 310.0 344.0 05 6560×775×1805 +390 390+390+390+390 +414 414+414+414 68.0 66.0 oll) Hermetic (Scroll)
Cooling capacity	310.0 344.0 05 6560×775×1805 +390 390+390+390+390 +414 414+414+414 68.0 66.0 oll) Hermetic (Scroll)
Heating capacity	344.0 05 6560×775×1805 +390 390+390+390+390 +414 414+414+414 68.0 66.0 oll) Hermetic (Scroll)
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 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 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 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 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 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 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	05 6560×775×1805 +390 390+390+390+390 +414 414+414+414 68.0 66.0 oll) Hermetic (Scroll)
Weight Net weight kg 364+364+3644 390+390+364+364 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 390+390+390+390 300+390+390+390 300+390+390+390 300+390+390+390 300+390+390+390 300+390+390+390 300+390+390+390 300+390+390+390 300+390+390+390+390 300+390+390+390 300+390+390+390 300+390+390+390+390 300+390+390+390+390 300+390+390+390	390+390+390+390 414+414+414+414 68.0 66.0 oll) Hermetic (Scroll)
Weight Gross weight Kg 388+388+388 414+388+388 414+414+388 414+414+388 414+414+388 414+414+388 414+414+388 414+414+388 414+414+388 414+414+388 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414 414+414+414	68.0 66.0 oll) Hermetic (Scroll)
Cooling rating SPL Alt	68.0 66.0 oll) Hermetic (Scroll)
Noise Night shift mode (noise reduction setting) SPL (Full-anechoic) dB(A) 63.0 64.0 65 65 65 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0	66.0 oll) Hermetic (Scroll)
Night shift mode (noise reduction setting) SPL (Full-anechoic) dB(A) 63.0 64.0 65 65 65 66.0 66.0 66.0 66.0 66.0 66.0 66.0	oll) Hermetic (Scroll)
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
Outdoor unit Fan 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 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 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 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 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)×3 (0.58×2)×3+0.47×2	58×2 (0.58×2)×4
Gas piping mm 50.8 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	54.0
Main pipe size 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 Brazi	ection Brazing connection
Operating temperature Cooling °C DB -5°C ~52°C -5°C	-5°C ~52°C
range 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
Maximum External static pressure Pa 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
Type - R410A 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 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 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
Refrigerant control mode - Microcomputer-controlled electronic expansion valve Microcomputer-controlled electronic expansion valve	
Type - FVC68D FV	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 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 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 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 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 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 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
Connected capacity ratio % 50~150% 50~150% 50~150% 50~150% 50~150% 50~150% 50~150%	50~150%
With Indoor Unit (recommended number of units) Maximum Number of connectable units (recommended number of units) - 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







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Capacity range	2	Unit	8НР	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP	28HP
Outdoor unit n	nodel		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
	Net weight	kg	202	207	223	227	271	277	2277	360	360	379	379
Weight	Gross weight	kg	218	223	239	243	291	297	297	383	383	402	402
	Cooling rating SPL (Full-anechoic)	dB(A)	52	55	57	59	61	61	61	61	61	62	62
Noise	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)
	Rated air volume	m3/min	175	175	198	207	256	263	263	329	348	375	375
Outdoor unit Fan	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
	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
Main pipe size	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 tempera	ature 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 pip	oing length	m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Type -	-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant	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
Reiligelalit	Maximum additional charge amount kg	kg	28	28	36	36	40	40	40	46	46	56	56
	Refrigerant control mode -	-	Microcomputer-contr	olled electronic expans	ion valve		Microcomputer-cont	rolled electronic expans	sion valve				
	Туре -	-	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
Refrigerant Oil	Charge amount L	L	6	6	6	6	6.9	6.9	6.9	8.4	8.4	8.4	8.4
	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%
With Indoor unit	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

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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
				RAS-180CNCCLI	RAS-180CNCCLI	RAS-180CNCCLI	RAS-220CNCCLI	RAS-220CNCCLI	RAS-240CNCCLI	RAS-220CNCCLI	RAS-240CNCCLI	RAS-240CNCCLI	RAS-260CNCCLI
Combination of modules			-	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)
	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	Rated air volume Outdoor unit Fan Number of Fan Motors	m3/min	405 2+1	207+263	256+263 2+2	263+263 2+2	256+329 2+2	263+329 2+2	263+348 2+2	329+329	329+348 2+2	348+348	348+375 2+2
Outdoor unit Fan	Outdoor unit Fan Number	m3/min - kW											
Outdoor unit Fan	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
Outdoor unit Fan Main pipe size	Outdoor unit Fan Number of Fan Motors Motor output	- kW	2+1 0.71×2	2+2 0.38×2+0.51	2+2 0.38×2+0.35×2	2+2 (0.38×2)×2	2+2 0.4×2+0.35×2	2+2 0.4×2+0.38×2	2+2 0.47×2+0.38×2	2+2 (0.4×2)×2	2+2 0.47×2+0.4×2	2+2 (0.47×2)×2	2+2 0.58×2+0.47×2
	Outdoor unit Fan Number of Fan Motors Motor output Gas piping	kW mm	2+1 0.71×2 31.75	2+2 0.38×2+0.51 31.75	2+2 0.38×2+0.35×2 31.75 19.05	2+2 (0.38×2)×2 38.1	2+2 0.4×2+0.35×2 38.1	2+2 0.4×2+0.38×2 38.1 19.05	2+2 0.47×2+0.38×2 38.1 19.05	2+2 (0.4×2)×2 38.1 19.05	2+2 0.47×2+0.4×2 38.1 19.05	2+2 (0.47×2)×2 38.1 19.05	2+2 0.58×2+0.47×2 38.1 19.05
	Outdoor unit Fan Number of Fan Motors Motor output Gas piping Main pipe size Liquid piping	kW mm	2+1 0.71×2 31.75 19.05	2+2 0.38×2+0.51 31.75 19.05	2+2 0.38×2+0.35×2 31.75 19.05	2+2 (0.38×2)×2 38.1 19.05	2+2 0.4×2+0.35×2 38.1 19.05	2+2 0.4×2+0.38×2 38.1 19.05	2+2 0.47×2+0.38×2 38.1 19.05	2+2 (0.4×2)×2 38.1 19.05	2+2 0.47×2+0.4×2 38.1 19.05	2+2 (0.47×2)×2 38.1 19.05	2+2 0.58×2+0.47×2 38.1 19.05
Main pipe size	Outdoor unit Fan Number of Fan Motors Motor output Gas piping Main pipe size Liquid piping Tubing connection method	kW mm	2+1 0.71×2 31.75 19.05 Brazing connection	2+2 0.38×2+0.51 31.75 19.05 Brazing connection	2+2 0.38×2+0.35×2 31.75 19.05 Brazing connection	2+2 (0.38×2)×2 38.1 19.05 Brazing connection	2+2 0.4×2+0.35×2 38.1 19.05 Brazing connection	2+2 0.4×2+0.38×2 38.1 19.05 Brazing connection	2+2 0.47×2+0.38×2 38.1 19.05 Brazing connection	2+2 (0.4×2)×2 38.1 19.05 Brazing connection	2+2 0.47×2+0.4×2 38.1 19.05 Brazing connection	2+2 (0.47×2)×2 38.1 19.05 Brazing connection	2+2 0.58×2+0.47×2 38.1 19.05 Brazing connection
Main pipe size Operating temperature range	Outdoor unit Fan Number of Fan Motors Motor output Gas piping Main pipe size Liquid piping Tubing connection method	- kW mm mm	2+1 0.71×2 31.75 19.05 Brazing connection -5°C~52°C	2+2 0.38×2+0.51 31.75 19.05 Brazing connection -5°C~52°C	2+2 0.38×2+0.35×2 31.75 19.05 Brazing connection -5°C~52°C	2+2 (0.38×2)×2 38.1 19.05 Brazing connection -5°C~52°C	2+2 0.4×2+0.35×2 38.1 19.05 Brazing connection -5°C~52°C	2+2 0.4×2+0.38×2 38.1 19.05 Brazing connection -5°C~52°C	2+2 0.47×2+0.38×2 38.1 19.05 Brazing connection -5°C~52°C	2+2 (0.4×2)×2 38.1 19.05 Brazing connection -5°C~52°C	2+2 0.47×2+0.4×2 38.1 19.05 Brazing connection -5°C~52°C	2+2 (0.47×2)×2 38.1 19.05 Brazing connection -5°C~52°C	2+2 0.58×2+0.47×2 38.1 19.05 Brazing connection -5°C~52°C
Main pipe size Operating temperature range Maximum External static press	Outdoor unit Fan Number of Fan Motors Motor output Gas piping Main pipe size Liquid piping Tubing connection method	- kW mm m °C DB	2+1 0.71×2 31.75 19.05 Brazing connection -5°C~52°C	2+2 0.38×2+0.51 31.75 19.05 Brazing connection -5°C~52°C	2+2 0.38×2+0.35×2 31.75 19.05 Brazing connection -5°C~52°C	2+2 (0.38×2)×2 38.1 19.05 Brazing connection -5°C-52°C	2+2 0.4×2+0.35×2 38.1 19.05 Brazing connection -5°C~52°C	2+2 0.4×2+0.38×2 38.1 19.05 Brazing connection -5°C~52°C 80	2+2 0.47×2+0.38×2 38.1 19.05 Brazing connection -5°C-52°C	2+2 (0.4×2)×2 38.1 19.05 Brazing connection -5°C~52°C	2+2 0.47×2+0.4×2 38.1 19.05 Brazing connection -5°C~52°C	2+2 (0.47×2)×2 38.1 19.05 Brazing connection -5°C~52°C	2+2 0.58×2+0.47×2 38.1 19.05 Brazing connection -5°C~52°C
Main pipe size Operating temperature range Maximum External static press	Outdoor unit Fan Number of Fan Motors Motor output Gas piping Main pipe size Liquid piping Tubing connection method	- kW mm s mm °C DB	2+1 0.71×2 31.75 19.05 Brazing connection -5°C~52°C 80 1,000	2+2 0.38×2+0.51 31.75 19.05 Brazing connection -5°C~52°C 80 1,000	2+2 0.38×2+0.35×2 31.75 19.05 Brazing connection -5°C~52°C 80 1,000	2+2 (0.38×2)×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000	2+2 0.4×2+0.35×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000	2+2 0.4×2+0.38×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000	2+2 0.47×2+0.38×2 38.1 19.05 Brazing connection -5°C-52°C 80 1,000 R410A	2+2 (0.4×2)×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000	2+2 0.47×2+0.4×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000	2+2 (0.47×2)×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000	2+2 0.58×2+0.47×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000
Main pipe size Operating temperature range Maximum External static press	Outdoor unit Fan Number of Fan Motors Motor output Gas piping Main pipe size Liquid piping Tubing connection method ure	- kW mm c mm °C DB Pa m	2+1 0.71×2 31.75 19.05 Brazing connection -5°C~52°C 80 1,000 R410A	2+2 0.38×2+0.51 31.75 19.05 Brazing connection -5°C~52°C 80 1,000 R410A	2+2 0.38×2+0.35×2 31.75 19.05 Brazing connection -5°C~52°C 80 1,000 R410A	2+2 (0.38×2)×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000 R410A	2+2 0.4×2+0.35×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000 R410A	2+2 0.4×2+0.38×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000 R410A	2+2 0.47×2+0.38×2 38.1 19.05 Brazing connection -5°C-52°C 80 1,000 R410A	2+2 (0.4×2)×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000 R410A	2+2 0.47×2+0.4×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000 R410A	2+2 (0.47×2)×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000 R410A	2+2 0.58×2+0.47×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000 R410A
Main pipe size Operating temperature range Maximum External static press Maximum Total piping length	Outdoor unit Fan Number of Fan Motors Motor output Gas piping Main pipe size Liquid piping Tubing connection method ure Type - Initial charge amount kg Refrigerant Maximum additional charge amount	- kW mm c mm °C DB Pa m	2+1 0.71×2 31.75 19.05 Brazing connection -5°C~52°C 80 1,000 R410A 11.6	2+2 0.38×2+0.51 31.75 19.05 Brazing connection -5°C~52°C 80 1,000 R410A 18.5	2+2 0.38×2+0.35×2 31.75 19.05 Brazing connection -5°C~52°C 80 1,000 R410A 19.7 80	2+2 (0.38×2)×2 38.1 19.05 Brazing connection -5°C-52°C 80 1,000 R410A 20.4	2+2 0.4×2+0.35×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000 R410A 20.7	2+2 0.4×2+0.38×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000 R410A 21.4	2+2 0.47×2+0.38×2 38.1 19.05 Brazing connection -5°C-52°C 80 1,000 R410A 21.8	2+2 (0.4×2)×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000 R410A 22.4	2+2 0.47×2+0.4×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000 R410A 22.8	2+2 (0.47×2)×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000 R410A 23.2	2+2 0.58×2+0.47×2 38.1 19.05 Brazing connection -5°C-52°C 80 1,000 R410A 23.2
Main pipe size Operating temperature range Maximum External static press Maximum Total piping length	Outdoor unit Fan Number of Fan Motors Motor output Gas piping Main pipe size Liquid piping Tubing connection method ure Type - Initial charge amount kg Refrigerant Maximum additional charge amount kg	- kW mm cmm control co	2+1 0.71×2 31.75 19.05 Brazing connection -5°C~52°C 80 1,000 R410A 11.6	2+2 0.38×2+0.51 31.75 19.05 Brazing connection -5°C~52°C 80 1,000 R410A 18.5	2+2 0.38×2+0.35×2 31.75 19.05 Brazing connection -5°C~52°C 80 1,000 R410A 19.7 80	2+2 (0.38×2)×2 38.1 19.05 Brazing connection -5°C-52°C 80 1,000 R410A 20.4	2+2 0.4×2+0.35×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000 R410A 20.7	2+2 0.4×2+0.38×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000 R410A 21.4	2+2 0.47×2+0.38×2 38.1 19.05 Brazing connection -5°C-52°C 80 1,000 R410A 21.8	2+2 (0.4×2)×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000 R410A 22.4	2+2 0.47×2+0.4×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000 R410A 22.8	2+2 (0.47×2)×2 38.1 19.05 Brazing connection -5°C~52°C 80 1,000 R410A 23.2	2+2 0.58×2+0.47×2 38.1 19.05 Brazing connection -5°C-52°C 80 1,000 R410A 23.2









Capacity range	е		Unit	52HP	54HP	56HP	58HP	60HP	62HP	64HP	66HP	68HP	70HP	72HP
Outdoor unit i	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 m	odules			RAS-260CNCCLI RAS-260CNCCLi	RAS-280CNCCLI RAS-260CNCCLI	RAS-280CNCCLI RAS-280CNCCLI	RAS-300CNCCLI RAS-280CNCCLI	RAS-300CNCCLI RAS-300CNCCLI	RAS-220CNCCLI RAS-220CNCCLI RAS-180CNCCLI	RAS-240CNCCLI RAS-220CNCCLI RAS-180CNCCLI	RAS-240CNCCLI RAS-240CNCCLI RAS-180CNCCLI	RAS-240CNCCLI RAS-220CNCCLI RAS-220CNCCLI	RAS-240CNCCLI RAS-240CNCCLI RAS-220CNCCLI	RAS-240CNCCLI 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					
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
weight	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
	Cooling rating	SPL	dB(A)	65	65	65	67	68	66	66	66	66	66	66
Noise	Cooling rating	(Full-anechoic)												
Noise	Night shift mode	SPL	dB(A)	63	63	63	63	63	61	61	61	62	62	62
	(noise reduction setting)	(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)
	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
Outdoor unit Fan	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
	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
Main pipe size	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					
Operating temper	ature 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 Externa	l static pressure		Pa	80	80	80	80	80	80	80	80	80	80	80
Maximum Total pi	ping length		m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Туре -		-	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
Refrigerant	Maximum additional charge amount kg		kg	112	112	112	112	112	132	132	132	138	138	138
	Refrigerant control mode		-	Microcomputer-contro	olled electronic expansion	on valve			Microcomputer-conti	rolled electronic expans	ion valve			
Refrigerant oil	Туре		-	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
	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%
With Indoor Unit	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					









Combination of the content of the	I RAS-940CNCCLI
Compression of modulus	
Cooling capacity	RAS-240CNCCLI RAS-240CNCCLI RAS-240CNCCLI RAS-220CNCCLI
Mode Main points Main po	3N~ 380-415V 50Hz
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+379 379+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+379 379+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+379 379+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+379 379+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+379 379+379+379 379+379+379 379+379+379 379+379+379 379+379+379 379+379+379 379+379+379 379+37	262.5
Figure F	6,500×775×1,805
Cooling rating SPL dB(A) 66 66 67 67 67 67 67 6	360+360+360+360
Noise Nois	383+383+383+383
Full-anechoic Full-anechoi	67
Night shift mode (noise reduction setting) Full-anechoic	
Setting Full-anechoic Setting Full-anechoic Setting Full-anechoic Setting Settin	63
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+34 Outdoor unit Fan 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+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+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+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+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	
Outdoor unit Fan Mumber 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+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+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 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+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+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 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+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+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 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+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+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+2+2+2+2+2+	Hermetic(Scroll)
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)×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 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 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 <th< td=""><td>329+348+348+348</td></th<>	329+348+348+348
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 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.	2+2+2+2
Main pipe size Liquid piping mm 22.2 22.2 22.2 22.2 22.2 22.2 22.2	2 (0.47×2)×3+0.4×2
Tubing connection Welding Connec	50.8
	25.4
	Welding connection
Operating temperature range °C DB -5°C~52°C -5°C~52°C </td <td>-5°C~52°C</td>	-5°C~52°C
Maximum External static pressure Pa 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 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 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 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 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 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 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 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,00	1,000
Type - R410A	R410A
Initial charge amount kg kg 34.8 34.8 34.8 34.8 34.8 34.8 34.8 34.8	46
Refrigerent Refrigerant Maximum additional charge kg 148 158 168 168 168 168 168 168 168 168	184
Refrigerant control mode - Microcomputer-controlled electronic expansion valve Microcomputer-controlled electronic expansion valve	
Type - FVC68D	FVC68D
Refrigerant oil Charge amount L 25.2 25.2 25.2 25.2 25.2 25.2 25.2 25	33.6
Connected capacity % 50~150% 50~150% 50~150% 50~150% 50~150% 50~150% 50~150% 50~150% 50~150% 50~150%	50~150%
With Indoor Unit	64 (38)
Connectable minimum capacity - 0.6HP class	0.6HP class



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				agun	V	tooup	A COLUMN	104115	100110	100115	44011	110115	44410	110110	440110	100110
Capacity ran			Unit		98HP	100HP	102HP	104HP	106HP	108HP	110HP	112HP	114HP	116HP	118HP	120HP
Outdoor uni	t model			RAS-960CNCCLI			RAS-H02CNCCLI	RAS-H04CNCCLI	RAS-H06CNCCLI	RAS-H08CNCCLI	RAS-H10CNCCLI	RAS-H12CNCCLI	RAS-H14CNCCLI	RAS-H16CNCCLI	RAS-H18CNCCLI	RAS-H20CNCCLI
				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
Combination	of modules			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-260CNCCLI	RAS-260CNCCLI	RAS-260CNCCLI	RAS-260CNCCLI	RAS-280CNCCLI	RAS-280CNCCLI	RAS-280CNCCLI	RAS-280CNCCLI	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
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 capac	city		kW	268	274	280	286	292	296.5	301	305.5	310	316.5	323	329.5	329.5
Outer dimens	ions (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
	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
	Cooling rating	SPL	dB(A) 67	67	68	68	68	68	68	68	68	69	70	70	70
		(Full-														
Noise	Night shift mode (noise reduction setting)		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)
	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+405	375+375+405+405	375+405+405+405	405+405+405+405
Outdoor unit Fan	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
	Gas piping		mm	50.8	54	54	54	54	54	54	54	54	54	54	54	54
Main pipe	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
Size	Tubing connection method	n	-	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 ten	nperature range		°C DE	3 -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 Ext	ernal static pressure	9	Pa	80	80	80	80	80	80	80	80	80	80	80	80	80
Maximum Tot	al 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
	Type -			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Initial charge amo	ount 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
Refrigerent	Refrigerant Maxin charge amount k		nal kg	184	194	204	214	224	224	224	224	224	224	224	224	224
	Refrigerant contro	rol mode -	-	Microcomputer-co	ntrolled electronic exp	pansion valve		Microcomputer-control	ed electronic expansion valve							
Refrigerant	Туре		-	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
oil	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
	Connected capaci	ity 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%
With Indoor Unit	Maximum Numbe units (recommend 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 mini	imum capaci	ty -	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)

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

2) Multi-Kit

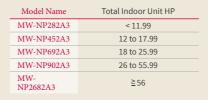
*For Heat Pump (2 Pipes)

Line branch

(First branch)

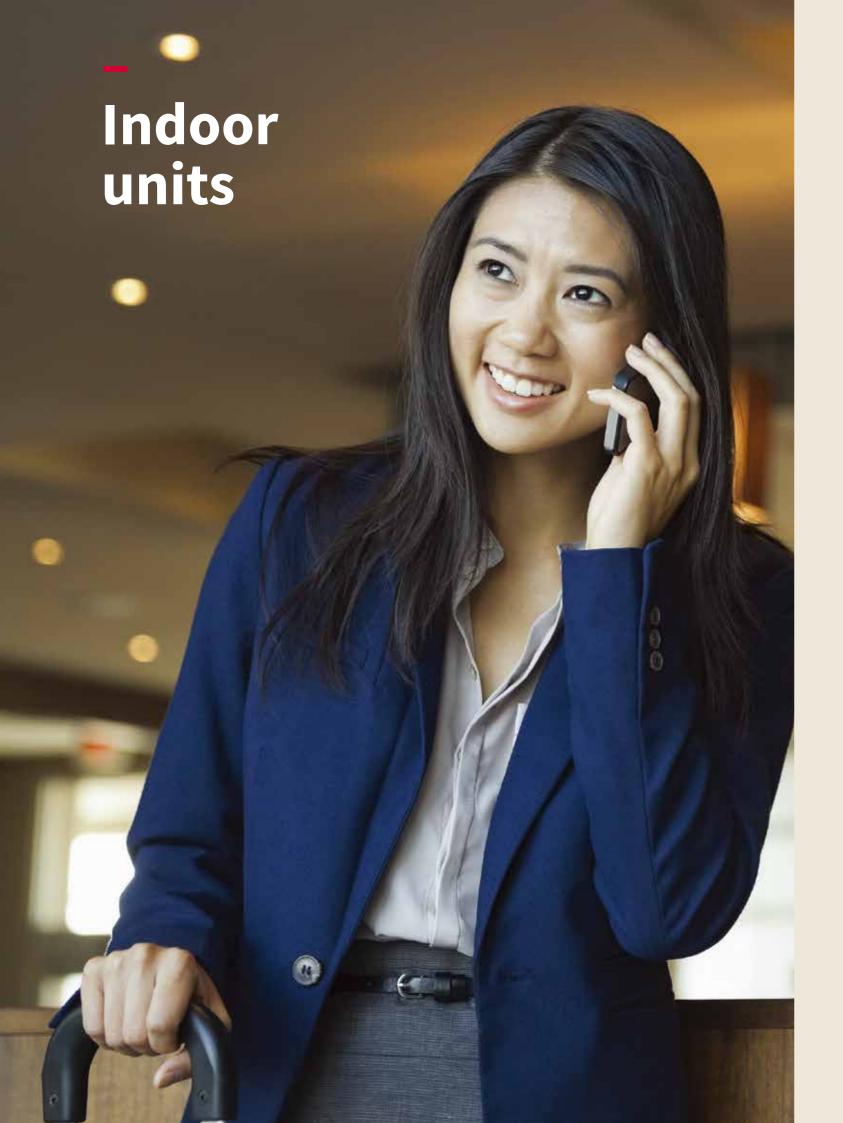
(After	First	Branc	h)
--------	-------	-------	----

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





OPTIONAL ACCESSORIES



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

73 SPECIFICATIONS

Choice for perfect indoor experience

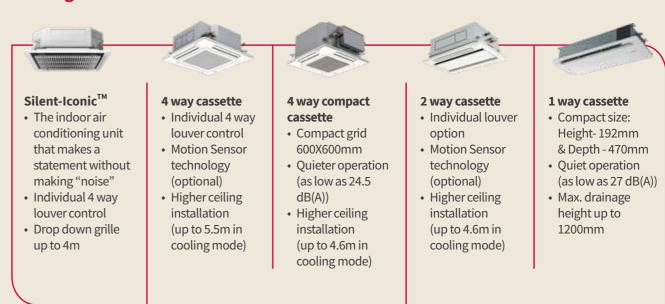
Indoor Unit Category		НР									
		0.8	1.0	1.5	2.0	2.5	3.0	4.0	5.0	6.0	
Ceiling Cassette	4 way cassette			✓	✓	✓	✓	✓	✓	✓	✓
	Silent-Iconic [™]			✓	✓	✓	✓	✓	✓	✓	✓
	4 way compact cassette			✓	✓	✓	✓				
Ö	2 way cassette		✓	✓	√	✓	✓	✓	√	√	✓
	1 way cassette			✓		✓	✓				
ealed	In-the-ceiling			✓	✓	✓	✓		†	†	
In-The-Ceiling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

 $^{^{*}\}mbox{1}$ Way Cassette also available in 1.3 HP and 1.6 HP.

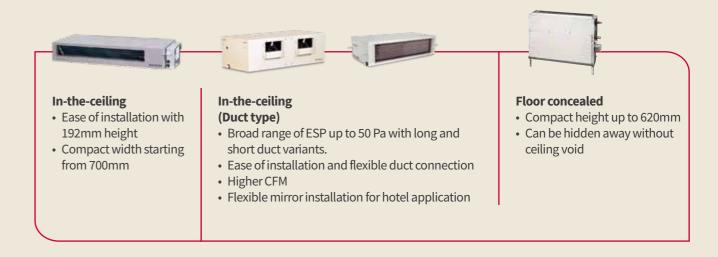
_

Key information

Ceiling Cassette



In-The-Ceiling & Concealed



Exposed



^{*}Product images shown are for reference only and data can be changed without prior notice.

 $^{^{\}star}\mbox{In-The-Ceiling}$ (Duct type) high static models are available in 8,10,12,16 & 20 HP.

^{**}Hi Wall unit is available in 1.3 HP.

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



DESIGN AWARD 2020



iF Design Award 2020 Award Winning

Good Design Award
(Category: Equipment and

Tomohiko Sato

Hitachi, Ltd. Product Design Department, Senior Designer



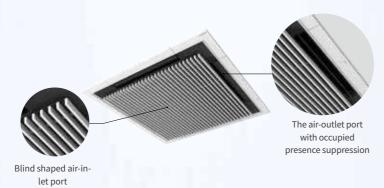
The designer graduated from University in the United Kingdom and soon after, he joined a London based design studio, working across a wide variety of disciplines including furniture, interior and the public realm. Currently, he dedicates himself to air conditioning design, working as a Senior Designer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

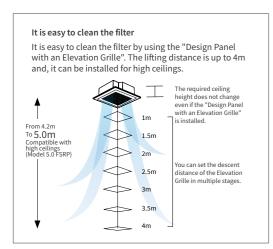




The design is well-matched to the space

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.















1. Scan the QR code^{*7} and open the web page

Display the web page with a QR code, URL,



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



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.

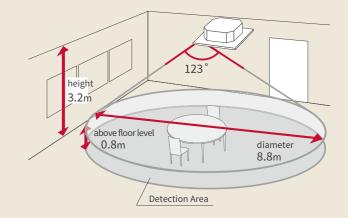


4. Adjustment of placement location

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.

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.

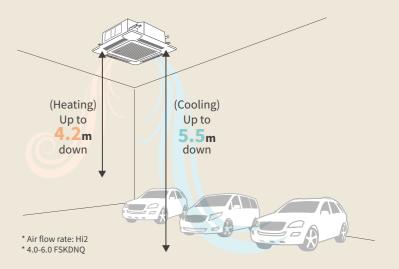




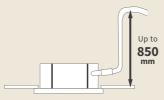
*This feature is compatible with wired remote controller (PC-ARF/ PC-ARF1/ HCWA10NEGQ)

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.



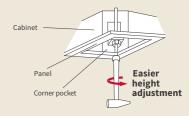
Standard drain pump with 850 mm lift



Direct attachment of round-ducts available



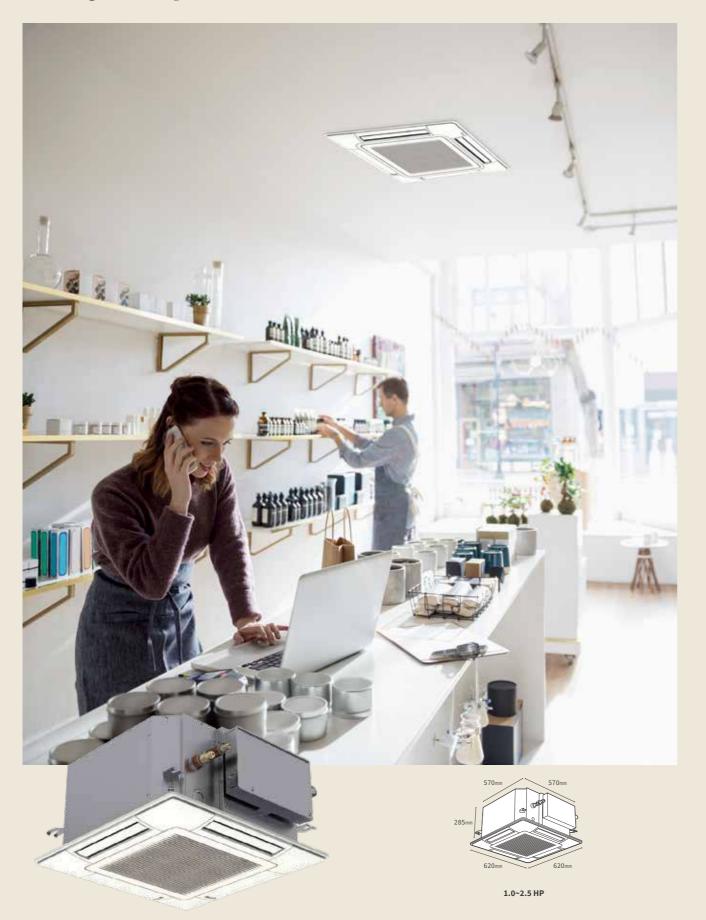
Easy fine-tune for installment height



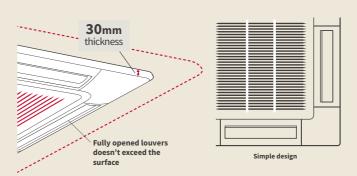
62

4 WAY COMPACT CASSETTE

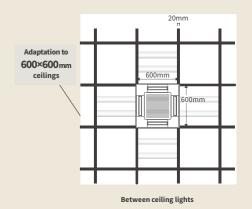
4 way compact cassette



Stylishly modern

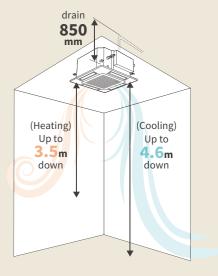


Compact design



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.



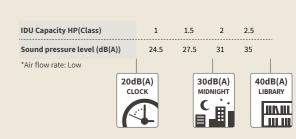
- * Air flow rate: Hi2
- * 2.0-2.5 FSRE

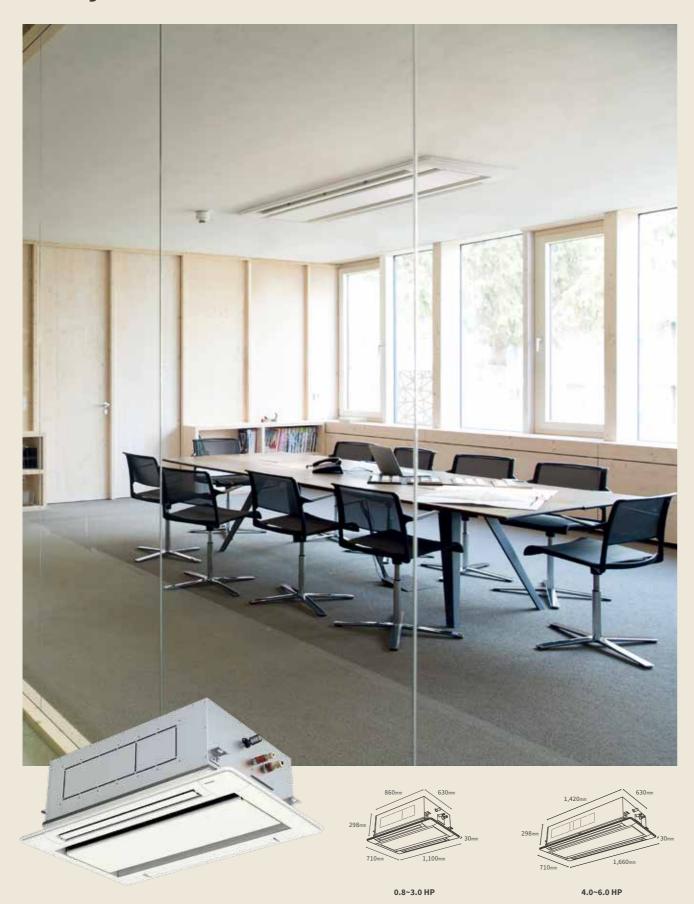
Antibacterial drain pan

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



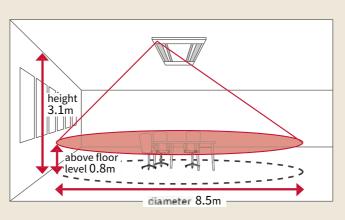
Silent operation





Motion Sensor technology

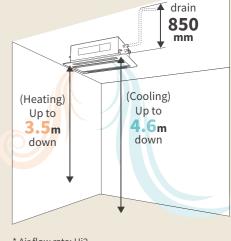
Motion Sensor technology comes with the ability to ensure you get equal attention for equal cooling comfort and enjoy higher energy savings. It identifies the number of people and directs airflow as per the requirement. In case of human absence, the sensor automatically switches the AC off, reducing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

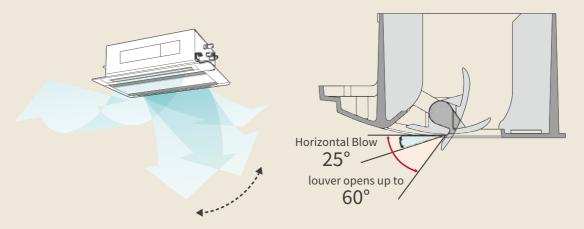
Hitachi's 2 Way Cassette AC is engineered to place at higher ceiling space such as car showroom space, banquets, and more. It comes with standard drain pump with 850mm lift.



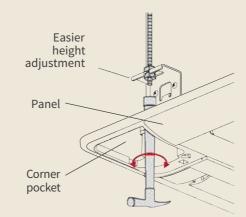
* Air flow rate: F * 2.0-6.0 FSN3

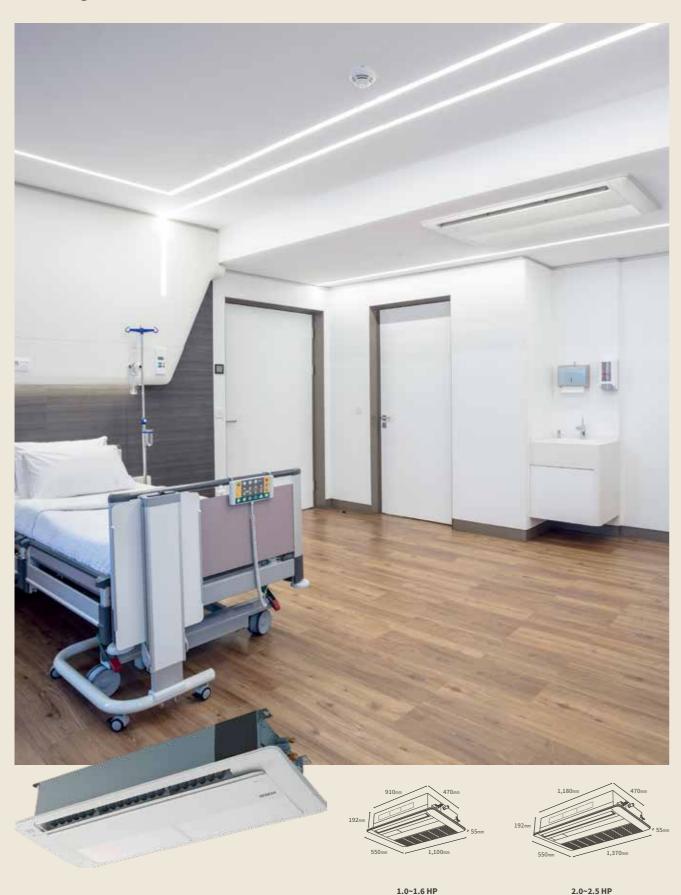
Individual louver control

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.



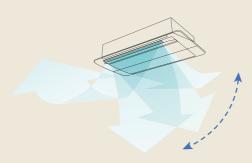
Easy fine-tune for installment height





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.

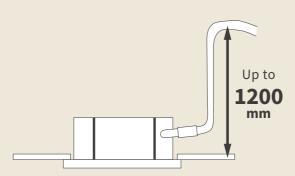


Sleek and compact design

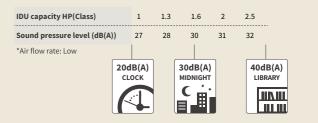


Standard drain pump

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



Silent operation



Adjustable air speed

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

Fresh air provision (Optional)

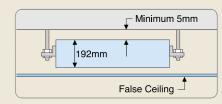
The unit can introduce fresh air from the external environment. With the filter facility, the air quality is guaranteed.

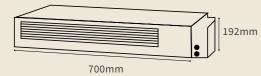
In-the-ceiling



Space saving installation

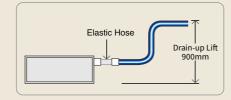
192mm in height, low height residential ceilings pose no problem in installation. Low width starting of 700mm makes this model suitable for installation in limited spaces in hotels.





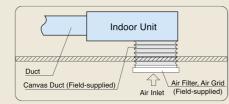
*For 1 HP model

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



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

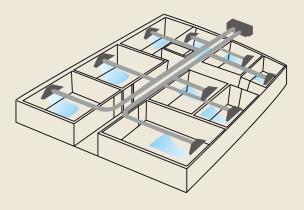
At 20-50 Pa, installation options comes in both long duct and short duct variants.

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.



70

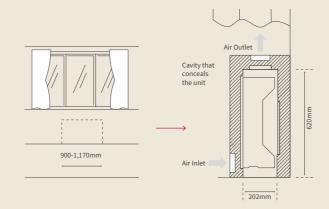
FLOOR CONCEALED | FLOOR/CEILING CONVERTIBLE

Floor concealed



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

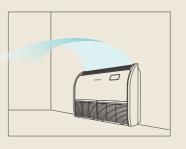


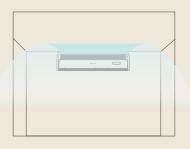
Floor/Ceiling convertible



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





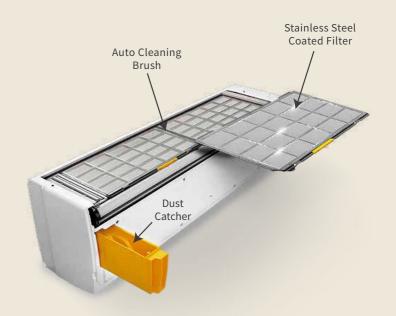
5.0 HP

Hi wall



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





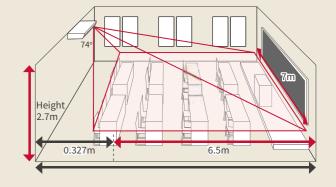


Without Auto Filter Cleaning With Auto Filter Cleaning

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



^{*}Available in Hi-Wall iClean* unit only

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 Pov	wer Supply					АС 1Ф, 220	-240 V / 50 Hz			
Nominal Coolin	g Capacity*1	KW	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
Nominal Heatir		KW	3.2	4.8	6.3	8.5	9.0	12.5	16.0	18.0
	e 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
	Height	mm	238	238	238	238	288	288	288	288
Outer Dimensions	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							110A			
		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
Indoor Fan	Air Flow Rate (Hi2/Hi/Me/Lo)	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					Fla	are-Nut Connect	ion (with Flare N			
	Liquid Line	mm	Φ6.35	Ф6.35	Ф6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Refrigerant Piping	Gas Line	mm	Ф12.7	Ф12.7	Ф12.7	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88
	Condensate Drain						P25			
Decoration Pan	el					Inc	luded			
Color						Neutr	al White			
Outer Dimension	ons (H X W X D)	mm				40 X 9	50 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 Po	wer Supply				AC 1Ф, 220-240 V / 50 H	Z	
Nominal Coolir	ng Capacity*1	KW	2.8	3.6	4.5	5.6	7.1
Nominal Heatin	ng Capacity*2	KW	3.2	4.0	5.0	6.3	8.0
Sound Pressure (Hi2/Hi/Me/Lo/		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
	Height	mm	192	192	192	192	192
Outer Dimensions	Width	mm	910	910	910	1180	1180
	Depth	mm	470	470	470	470	470
Net Weight		Kg	19	20	20	24	24
Refrigerant					R410A		
	Air Flow Rate	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	15.6/12.6/11.2/9.9/8.4/7.1
Indoor Fan	(Hi2/Hi/Me/Lo/Slo/Silent)	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	551/445/395/350/297/251
Motor Output		W	33	33	33	57	57
Connections				Flare-I	Nut Connection (with Fla	re Nuts)	
	Liquid Line	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.53
Refrigerant Piping	Gas Line	mm	Ф12.7	Ф12.7	Ф12.7	Ф15.88	Ф15.88
	Condensate Drain				VP25		
Decoration Pan	iel			Included		Incl	uded
Color				Neutral White		Neutr	al White
Outer Dimension	ons (H X W X D)	mm		55 X 1100 X 550		55 X 13	370 X 550
Net Weight		Kg		5.0		(5.0

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 Po	ower Supply			AC 1Φ, 220	0-240 V / 50 Hz	
Nominal Cooli	ng Capacity*1	KW	2.8	4.0	5.6	7.1
Nominal Heat	ing Capacity*2	KW	3.2	4.8	6.3	8.5
Sound Pressu	re 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
	Height	mm	285	285	285	285
Outer Dimensions	Width	mm	570	570	570	570
	Depth	mm	570	570	570	570
Net Weight		kg	16	16	17	17
Refrigerant				R	410A	
Indoor Fan	Air Flow Rate	m³/min.	12/10/8.5/6	13/11/9.5/7	15/12/10/8	16/14/12/10
	(Hi2/Hi/Me/Lo)	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					tion (with Flare Nuts)	
	Liquid Line	mm	Ф6.35	Ф6.35	Φ6.35	Ф9.52
Refrigerant Piping	Gas Line	mm	Ф12.7	Ф12.7	Ф12.7	Ф15.88
	Condensate Drain			V	/P25	
Decoration Pa	nel			P-AP56NAM (with	hout motion sensor)	
Color				Neutr	ral White	
Outer Dimens	ions (H X W X D)	mm		30 X 6	520 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 P	ower Supply					AC 10	D, 220-240 V / 50	Hz			
Nominal Cool	ing Capacity*1	KW	2.2	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
Nominal Heat	ing Capacity*2	KW	2.5	3.2	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressur	re Level*3 (Hi2/Hi/Me/Lo)		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
	Height	mm	298	298	298	298	298	298	298	298	298
Outer Dimensions	Width	mm	860	860	860	860	860	860	1,420	1,420	1,420
	Depth	mm	630	630	630	630	630	630	630	630	630
Net Weight		kg	23	23	25	25	25	25	39	39	39
Refrigerant							R410A				
	Air Flow Rate	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	37/32.5 /28.5/24
Indoor Fan	(Hi2/Hi/Me/Lo)	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	1,306/1,147 /1,006/847
Motor		W	57	57	57	57	57	57	57 x 2	57 x 2	57 x 2
Connections							nnection (with F				
	Liquid Line	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Φ9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52
Refrigerant Piping	Gas Line	mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88
	Condensate Drain						VP25				
Decoration Pa	anel				NA (for RCD- [0					(for RCD- [4.0-6	
Color					Neutral White	2			N	eutral White	
Outer Dimens	sions (H X W X D)	mm			30 X 1100 X 71	0			30	X 1660 X 710	
Not Weight		ka			7.5					10 F	

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 P	ower Supply				AC 1Φ, 220-240 V / 50 Hz		
Nominal Coo	ling Capacity*1	KW	5.6	7.1	8.4	11.2	14.2
Nominal Hea	ting Capacity*2	KW	6.5	8.5	9.6	13.0	16.3
Sound Pressu	ure Level*4		39/35/30	45/41/37	43/39/34	51/46/40	50/46/42
Hi/Me/Lo)	dв(A) -	Floor	43/38/35	48/44/40	46/41/37	54/49/43	55/50/46
	Height	mm	230	230	230	230	230
Outer Dimensions	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		
	A* Fl. D ////// // // . //		13/11/9	16.1/14/11.3	18.2/15.2/12.2	24.8/20.5/16.3	33/28/23
ndoor Fan	AIr Flow Rate (HI/Me/Lo)	cfm	459/388/318	568/494/399	643/537/431	876/724/576	1165/989/812
Motor Output	t	W	40	70	70	130	160
Connections					are-Nut Connection (with Flare		
	Liquid Line	mm	Φ6.35	Φ9.53	Φ9.53	Ф9.53	Ф9.53
Refrigerant Piping	Gas Line	mm	Φ15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88
	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 Po	ower Supply						A	С 1Ф, 230 V / 5	50 Hz				
Nominal Cooli	ng 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 Heati	ng 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 Pressur (Hi2/Hi/Me/Lo		dB (A)	40/38/ 36/34/32	43/40/ 37/35/33	45/40/ 37/35/33	45/40/ 37/35/33	48/45/ 42/39/35	49/46/ 43/40/36	45/42/ 39/37/35	48/45/ 42/39/35	49/46/ 43/40/36	47/44/ 40/35	51/48/ 44/39
	Height	mm	295	295	295	295	295	295	295	295	295	300	300
Outer Dimensions	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	m³/min	9.8/9.1/ 8.5/7.8/ 7.1	10.5/9.8/ 8.5/8.0/ 7.3	12/10.7/ 9.3/8.8/ 8	12/10.7/ 9.3/8.8/ 8	16.6/15/ 13.5/11.5/ 10	19/17.2/ 15.4/13.1/ 11.4	15/13.5/ 11.5/10.7/ 10	16.6/15/ 13.5/11.5/ 10	19/17.2/ 15.4/13.1/ 11.4	20/17.5/ 15.5/ 12.5	23/20/ 17.5/ 14.5
	(Hi2/Hi/Me/Lo/Slo)	cfm	346/321/ 300/275/ 250	371/346/ 300/282/ 258	424/378/ 328/311/ 282	424/378/ 328/311/ 282	586/530/ 477/406/ 353	671/607/ 544/462/ 403	530/477/ 406/378/ 353	586/530/ 477/406/ 353	671/607/ 544/462/ 403	706/618/ 547/ 441	812/706/ 618/ 512
Motor Output		W	18	18	18	18	30	30	30	30	30	38	38
Connections							Flare-Nut C	Connection (w	ith Flare Nuts)			
Refrigerant	Liquid Line	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52
Piping	Gas Line	mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф15.88	Ф15.88	Ф12.7	Ф15.88	Ф15.88	Ф15.88	Ф15.88
iClean Functi	on		No	No	No	No	No	No	Yes	Yes	Yes	No	No

Notes for RPFC-FSNQ, RPIZ-HNATNQ, 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 1Ф, 220	0-240V / 50 Hz	
Nominal Cooling Ca		KW	2.8	4.0	5.6	7.1
Nominal Heating Ca		KW	3.2	4.5	6.3	8.0
Sound Pressure Lev (Hi/Me/Lo)	/el*3 *5		30/23/20	32.5/26/23	34/26/25	37/29/27
	Height	mm	192	192	192	192
Outer Dimensions	Width	mm	700	910	1180	1180
	Depth	mm	447	447	447	447
Net Weight		Kg	17.0	20.0	25.0	25.0
Refrigerant				R	410A	
Indoor Fan	Air Flow Rate	m³/min	9.5/6.5/5.5	10/7/6	15/10/9	17/10/9
iliuooi rali	(Hi/Me/Lo)	cfm	335/230/194	353/247/212	530/353/318	600/353/318
External Static Pres	sure*6	Pa	10(30)	10(30)	10(30)	10(30)
Motor Output		W	28	28	45	60
Connections				Flare-Nut Connec	tion (with Flare Nuts)	
Refrigerant Piping	Liquid Line	mm	Ф6.35	Ф6.35	Ф6.35	Ф9.53
Kenngerant Piping	Gas Line	mm	Ф12.7	Ф12.7	Ф15.88	Ф15.88

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 P	ower Supply					АС 1Ф, 230	0 V / 50 Hz				
	ling Capacity*1	KW	2.8	4.3	5.6	5.6	7.1	8.4	11.2	14.0	16.0
	ting Capacity*2	KW	3.3	4.9	6.3	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressu (Hi/Me/Lo)	ıre Level*3 *5	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
	Height	mm	280	280	280	280	280	280	385	385	385
Outer Dimensions	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						R41	LOA				
Indoor Fan	Air Flow Rate	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
ilidool rali	(Hi/Me/Lo)	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 Stati	ic Pressure	Pa	19	19	19	19	19	19	49	49	60
Motor Output	t	W	24	24	24	50	50	50	220	220	630
Connections					Flar	re-Nut Connection	on (with Flare Nu	its)			
Refrigerant	Liquid Line	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52
Piping	Gas Line	mm	Ф12.7	Ф12.7	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88

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 Pow	er Supply			AC 14	o, 230V / 50 HZ			AC 3Ø, 41	5V / 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 Me/Lo)	Level (Hi/	dB (A)	62/59/57	64/61/59	65/62/60	66/63/60	68/65/62	68.0	72.0
	Height	mm	440	440	440	550	550	1550(V)/725(H)	1550(V)/725(H)
Outer Dimensions	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			
	Air Flow Rate	m³/min	85/77.6/70	96/87.5/80	105/96/88	150/142/135	170/162/154	166	186
Indoor Fan	(Hi/Me/Lo)	cfm	3000/2740/ 2480	3400/3100/ 2810	3700/3390/ 3100	5300/5010/ 4760	6000/5720/ 5440	5860	6560
External Static P	ressure	Pa	78	78	78	100	100	150	150
Motor Output		w	630	630	900	550 (3)	550 (3)	3000	3000
Connections						BRAZING CONNEC	TION		
Refrigerant	Liquid Line	mm	Ф 9.52	Ф 9.52	Ф 12.7	Ф 12.7	Ф 15.88	Ф 12.7	Ф 15.88
Piping	Gas Line	mm	Ф 19.05	Ф 22.22	Ф 25.4	Ф 28.58	Ф 28.58	Ф 28.58	Ф 28.58

Floor concealed

Model			RPFI-1.0FSNQ	RPFI-1.5FSNQ	RPFI-2.0FSNQ	RPFI-2.5FSNQ
Indoor Unit Pow	ver Supply			AC 1Φ, 230 V / 50 Hz	Z	
Nominal Cooling	g Capacity*1	KW	2.8	4.3	5.6	7.1
Nominal Heatin	g Capacity*2	KW	3.3	4.9	6.5	8.5
Sound Pressure (Hi/ Me/ Lo)	Level*3	dB (A)	37/34/31	40/38/35	42/38/36	45/43/40
	Height	mm	620	620	620	620
Outer Dimensions	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	m³/min	8.0/7.0/6.0	10/8.0/7.0	14.5/12.5/10.5	16/14/12
ilidoor rail	Hi/Me/Lo	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 F	lare Nuts)	
	Liquid Line	mm	Ф6.35	Φ6.35	Φ6.35	Φ9.53
Refrigerant Piping	Gas Line	mm	Φ12.7	Φ12.7	Ф15.88	Ф15.88
	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			DCI 4 OFCDD	DCI 4 FFCDD	DCI 2 AFCDD	DCI o FFCDD	DCI 2 OFCDD	DCI 4 OFCDD	DCI E OFCDD	DCI C OFCDD
			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 Pow	er Supply					АС 1Ф, 220	0-240V / 50 Hz			
Nominal Cooling	g Capacity	KW	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
Nominal Heating	g Capacity	KW	3.2	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressure (Hi2/Hi/Me/Lo)	Level	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
	Height	mm	248	248	248	248	298	298	298	298
Outer Dimensions	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						R	410A			
	Air Flow Rate	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
Indoor Fan	(Hi2/Hi/Me/Lo)	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
	Liquid Line	mm	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52
Refrigerant	Gas Line	mm	Ф12.7	Ф12.7	Ф12.7	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88
Piping	Condensate Drain	mm				\	/P25			
Cassette Air Pan	el (Silent Iconic Type)					P-GP160NAP	J (Optional Item)			
Panel Dimension	ns (H X W X D)	mm				52 x 9	950 x 950			
Panel Net Weigh	it	Kg					10			
Compatible Wire	ed 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.



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.

83 VENTILATION SOLUTIONS
83 All fresh air unit
84 Total heat exchanger

DX-KIT



Our ventilation line-up

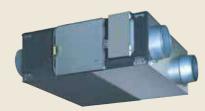
Our line-up fulfils the ventilation requirements of the desired space by drawing in clean air from the outside and replenishing indoor spaces. It features solutions that suit every type of building; you can use the ventilation technology as it is or it can be incorporated into a Hitachi indoor unit via 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 environments 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 that 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 6,000m³/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	y		АС 1Ф 220-240V/ 50Hz	АС 1Ф 220V/ 60Hz	AC 1Ф 220-240V/ 50Hz	АС 1Ф 220V/ 60Hz	АС 1Ф 220-240V/ 50Hz	АС 1Ф 220V/ 60Hz	АС 3Ф 380-415V/ 50Hz	АС 3Ф 380V/ 60Hz
Connectable	Outdoor Unit			Slim Modular V	RF SideSmart [™] (Hea	at Pump Type)			RAS-120HNCEL(/R)W	
	Capacity	kW	14.0	14.0	22.4	22.4	28.0	28.0	33.5	33.5
Cooling	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
	Capacity	kW	13.7	13.7	21.9	21.9	24.5	24.5	26.8	26.8
Heating	Power	kW	0.30	0.35	0.48	0.55	0.50	0.58	0.68	0.78
	Nominal Current	Α	1.4	1.61	2.2	2.53	2.3	2.65	1.43	1.64
Sound Pressu (overall a sca		dB(A)	42	42	44	44	47	47	56	56
Dimensions	H×W×D	mm	370×132	20×800	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/ min	18	18	28	28	35	35	50	50
External Pres	sure	Pa	200	200	220	220	220	220	220	220
	Liquid	mm	Ф9.53	Ф9.53	Ф9.53	Ф9.53	Ф9.53	Ф9.53	Ф12.7	Ф12.7
Piping	Gas	mm	Ф15.88	Ф15.88	Ф19.05	Ф19.05	Ф22.2	Ф22.2	Ф25.4	Ф25.4
	Condensate Drain				VP25, 0	uter Diameter	: Ф32mm			

Temperature range of fresh air drawn	Cooling: 20.0°C~43.0°C. Heating: -7.0°C~15.0°C

Model			RPI-16.0	KFNQL	RPI-16.0	KFNQH	RPI-20.0	KFNQL	RPI-20.0	KFNQH	RPI-20.0I	KFNQLF	RPI-20.0I	KFNQHF
Power Supp	ly		АС 3Ф 380-415V/ 50Hz	АС 3Ф 380V/ 60Hz										
Connectable Outdoor Unit RAS-160HNCEL(/R)W							RAS-200H	NCEL(R)WS,	RAS-200H	NCEL(R)WP, I	RAS-200HI	NCEL(R)WS		
	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
Cooling	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	Α	1.8	2.07	2.2	2.53	2.22	2.55	3.14	3.61	3.0	3.45	3.9	4.45
	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
Heating	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	Α	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 Press (overall a sc		dB(A)	58	58	62	62	61	61	65	65	63	63	67	67
Dimensions	H×W×D	mm	635×19	50×805	635×195	50×805	735×19	50×805	735×195	50×805	735×195	50×805	735×19	50×805
Net Weight		kg	196	196	196	196	222	222	222	222	222	222	222	222
Refrigerant			R410A	R410A										
Air Flow Rate	e	m³/min	67	67	67	67	83	83	83	83	100	100	100	100
External Pre	ssure	Pa	200	200	300	300	200	200	300	300	200	200	300	300
	Liquid	mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88
Piping	Gas	mm	Ф25.4	Ф25.4	Ф25.4	Ф25.4	Ф28.6	Ф28.6	Ф28.6	Ф28.6	Ф28.6	Ф28.6	Ф28.6	Ф28.6
	Condensate Drain						RC1 ((Internal S	crew)					

Temperature range of fresh air drawn Cooling: 20.0°C~43.0°C, Heating: -7.0°C~15.0°C

1. 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.

3. An air filter with dust removal efficiency of 50% or more needs to be installed at the air inlet.

4. 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.

 $5. Air \, processor \, can \, only \, be \, used \, for \, processing \, fresh \, air, indoor \, air \, conditioning \, load \, processing \, need \, to \, use \, other \, air \, conditioners.$

6. 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.

 $7.\,Refer to \,capacity \,restrains \,shown \,on \,Table \,below \,for \,indoor \,unit \,capacity \,connectable \,to \,outdoor \,unit.$

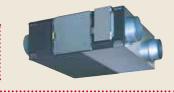
Mixed System (All Fresh Air Unit and Other Indoor Unit) System (Only All Fresh Air Unit) i) 80 to 100% Range of Combina-80 to 100% tion Capacity ii) Total Capacity of All Fresh Air: 30%

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)	А	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 300 320 x 300"	"320 x 300 320 x 300"

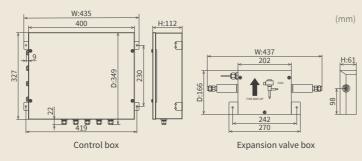
Please confirm the model name for "wires remote controller" compatible with Total Heat Exchanger to your local distributor.







Dimensions



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				
	Power Supply		AC1Φ, [220-240V /50Hz] [220V 60Hz]									
	Height	mm	112	112	112	112	112	112				
Control Box	Width	mm	435	435	435	435	435	435				
(C Box)	Depth	mm	349	349	349	349	349	349				
	Weight	kg	5.2	5.2	5.2	5.2	5.2	5.2				
	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				
Expansion Valve Box (EXV Box)	Weight	kg	1.7	1.7	1.7	1.7	1.7	1.7				
(LAV DOX)	Quantity		1	1	1	1	1	2				
	Material				Steel Plate + Wh	ite Grey Coating						
	Liquid Pipe Diameter		ф6.35	ф9.52	ф9.52	ф9.52	ф12.7	ф12.7				
AHU Suction Tem-	Cooling			2:	1.0°C to 32.0°C (DB)	/ 15.0°C to 23.0°C (W	B)					
perature Range	Heating				15.0°C to 2	27.0°C (DB)						

Connection Ratio in different configurations → Total AHU or AHU & IDU Connection Ratio against ODU capacity = X

• 1 ODU to 1 AHU : $\underline{50\%} < \mathsf{X} \leq \underline{100\%}$ •1 ODU to 1 AHU (Separate Heat Exchanger Type): 50% < X ≤ 100% •1 ODU to Multiple AHUs: 50% < X ≤ 100% 1 ODU to AHU & IDUs:

(in case of "inlet A	Air Temperature Control")					of total capacity / Ea				
Maximum	Total	 1,000 (When the number of connected [AHU & IDU] in the system is the same or less than the recommended.) 300 (When the number of connected [AHU & IDU] in the system is more than the recommended.) 								
Piping Length	Between AHU Heat Exchanger and EXV Box	m	5	5	5	5	5	5		
Maximum	Between ODU and [AHU/IDU]	m				<u>/e</u> [AHU & IDU & DX-k <u>w</u> [AHU & IDU & DX-k				
Level Difference	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 • Outlet Air Temperature Control

• Duty Control

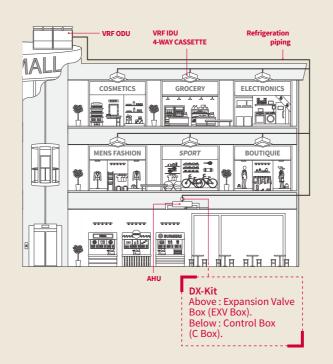
(*1) [Outlet Air Temperature Control] & [Duty Control] are available only in case of connections "1 ODU to 1 AHU" & "1 ODU to 1 AHU(Separate Heat Exchanger Type)".

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

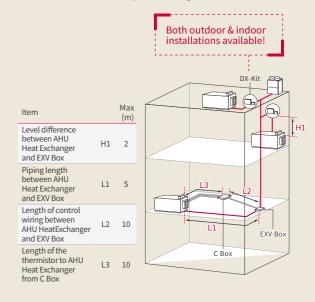
Our DX-Kit can cover from small to large capacity AHU. It can meet any requirement in any application!



(2) Flexible installation:

- Both outdoor & indoor installation of DX-Kit available
- · Design Flexibility in wiring & piping

DX-Kit facilitates system design!



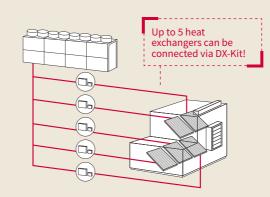
(3) 4 examples of configuration:

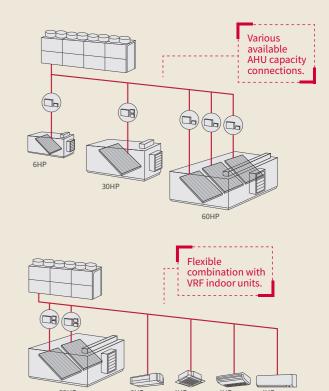
- ightarrow 1 VRF outdoor unit + 1 AHU
- → 1 VRF outdoor unit + 1 AHU (external heat exchanger)
- → 1 VRF Outdoor unit + multiple AHUs
- → 1 VRF Outdoor unit + VRF indoor units + AHUs

[Example]

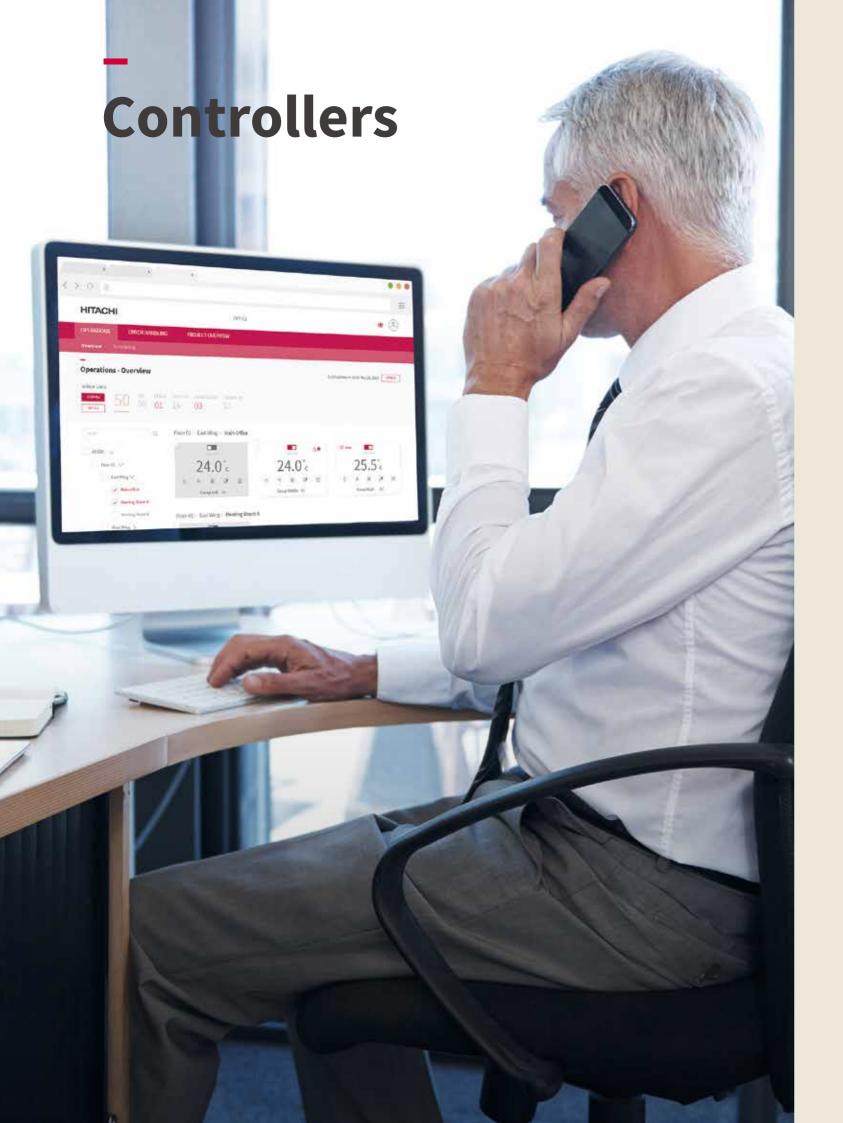


DX-Kit Left: Control Box (C Box)





86



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
	94	Central Station mini
95	INDI	/IDUAL CONTROLLERS
	96	Line up overview
	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-LIN	NK: 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
- 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
		RC group	64 (*6)	32	64	2,560 (*1)
		Group	64 (*6)	32	64	2,048 (*1)
	Total Connection conscitu	Block	Unlimited (*7)	2/4/8/16	4	512 (*2)
Capacity com-	Total Connection capacity	Area	Unlimited (*7)	-	-	512 (*2)
parison		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
	Operation		Web + Mobile Phone	Touch screen	Touch screen	Touch screen + Web (New!)
	Operation panel size option	S	Adaptive	3	2	7
Display	Layout		-	-	-	•
	List options		-	-	-	3
	All together		•	•	•	•
	By layout		-	-	-	•
	By area		•	-	-	•
Operation unit	By block		•	•	•	•
	By group		•	-	-	•
	By RC group		-	•	•	-
	By indoor unit		•	-	-	•
	Main 5 functions (*5)		•	•	•	•
	Individual controller lock		•	•	△ (*3)	•
Control Function	Filter sign reset		•	•	•	•
	Outdoor unit capacity contro	ol	-	△ (*4)	-	•
	Outdoor unit noise control		-	-	-	•
	Main 5 functions (*5)		•	•	•	•
	Individual controller lock		•	•	•	•
Monitor Function	Alarm status & code		•	•	•	•
Monitor runction	Filter sign		•	•	•	•
	Air inlet temperature of indo	orunit	-	•	-	•
	Air inlet temperature of out	loor unit	-	•	-	•
	Weekly		•	•	•	•
	Setting times per day		16	10	10	16
Schedule Func- tion	Special day setting		5	-	-	5
	Holiday setting		-	-	-	•
	Annual/Summer/Winter sch	edule	Future Version	-	-	•
	Alarm history (records numb	per)	Unlimited	100	100	10,000
Otherfunction	External in/output history		-	-	-	1,000
Other function	Management report visualiz	ation(*11)		•	•	•
	Data output by external med	dia	Download from Web	-	-	SD card, USB flash device

Future Extendability

Ethernet + 4G (*9) Firmware OTA (*10)

^(*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.

 $^{(^{\}star}9)\ 4G\ available\ through\ optional\ 4G\ module; 4G\ module\ package\ comes\ with\ global\ SIM\ and\ pre-paid\ global\ data\ plan.$

^(*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





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 ^{*3}
External interface (log storage)	1 micro SD card slot

Functions

IoT connection (cloud-based)	 Access via smartphone app or web Unlimited number of gateways Unlimited number of locations Unlimited number of users
Operation unit	 Per entire location Per system Per zone (unlimited zone creation) Per indoor unit remote control group
Control function	• On/Off • Mode • Set temperature • Fan speed • Louver • RC lock • Filter sign reset

Monitor Function	On/Off • Mode • Set temperature Air intake temperature • RC sensor temperature (*3) Air intake temperature of outdoor unit Fan Speed • Louver • RC prohibition Thermo-ON information • Filter sign/Auto cleaning fault Alarm status/Alarm codes
Schedule function	Weekly schedule

* "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.)











COLLEGE

All VRF users can enjoy these benefits!

s **air**Cloud Pro for me?

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



RETAIL

Future-proof

RESTAURANT

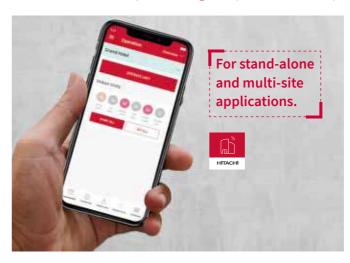
With updates and new features added regularly, air-Cloud Pro ensures you are always up to date.



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

*airCloud Pro available with SideSmart™ from May 2021.

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



√ 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^{*2} In the event of a critical malfunction.
- Flexible user management*2 Add users and custom access restrictions.

Create better comfort

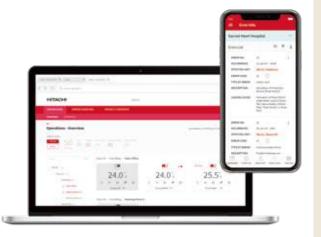
Adjust temperature, fan speed, and modes with ease, creating total comfort and the ideal climate throughout your building.

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

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.



Easy plug-and-play

Our airCloud gateway makes installation a breeze.

Connect to the airCloud via 3G/4G^{*3} 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 guicker.

+ 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.

92

^{*1} Confirm compatibility of your VRF installation with your Hitachi Cooling & Heating representative.

^{*2} Functions not available as of September 2019, coming soon.

^{*3 4}G module available as a side accessory.

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)
Indoorunit	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*



Specifications

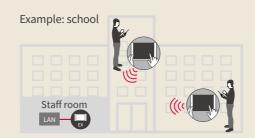
Rated power supply	100~240VAC ±10% (50/60Hz)
Electrical power consumption	50W (Max.)
Communication unit	Units of Adopting for H-LINK
Communication line	Two-wire non-polar
Communication speed	9,600bps
Wiring length	1,000m (Total Length)
Display	12.1-inch TFT color liquid crystal display
Display control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

Functions

Operation unit	All together Each area Each block Each group Each indoor unit		each of the following settings is available in 3 different [annual] [summer][winter] categories: → Weekly schedule → Up to 16 actions can be set per day → Exception day setting: 5 different types → Holiday setting		Energy saving: • Run/Stop • RC prohibition • Temperature shift (For Cool/Drymode: +1.0°C -+9.0°C (+1.0°F +18.)
Control function	On/Off Mode Set temperature Fan speed Louver RC prohibition Filter sign reset Function selection for indoor units (*1) Function selection for outdoor units (*2) Capacity control for outdoor units (*2)	Schedule function	Setting items in schedule is as below: • On/Off • Operation mode • Setting temperature • Louver • Fan speed • RC operation prohibition • Capacity control for outdoor units • Lower noise control for outdoor units	External input / output	(For Heat mode: -1.0°C9.0°C (-1.0°F18.0°F • Mode shift (Mode shifted to Fan when in Cool/Dry m and shifted to Stop in Heat mode) • Capacity control on outdoor units • Lower noise control for outdoor units Control/Monitor → Controlled items: • Run/Stop • Mode (Cool/Heat)
	Lower noise control for outdoor units (*2) On/Off Mode	History	Alarm history: 10,000 records External In/Output history: 1,000 records Pulse input history: 6 months		→ Monitored items:• Run/Stop• Mode (Cool/Heat)
Set temperature Air intake temperature RC sensor temperature (*3) Monitor Air intake temperature of outdoor unit function Fan Speed	Management report	Up to 2 years worth of data history can be displayed for the following: • Accumulated operation time (min.) • Accumulated thermo-ON time (min.) • Average air intake temp temperature of		Alarm state Others: Power consumption signal input Emergency stop	
	Louver RC prohibition Thermo-ON information Filter sign/Auto cleaning fault Alarm status/Alarm codes	visualization	indoor unit • Average air intake temperature of outdoor unit • Average setting temperature • Average RC sensor temperature	(*2) Available fo (*3) Whether thi	or units may not fully support all functions r applicable outdoor units only. s is shown on the screen depends ote 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.

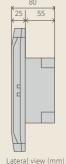


Central station EZ for medium-scale buildings

(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.



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

160

Small-Medium

Functions

Capacity

RC group Group Block Indoor Unit

Outdoor Unit **Building Scale**

Specifications

runctions	
Monitor Function	• Run/Stop/Abnormality • Setting Temperature • RC Operation Prohibited Setting • Accumulated Operating Time • Operation Mode • Setting Fan Speed • Setting Louver • Filter Sign • Alarm Code
Control Function	• Run/Stop* • Fan Speed • Operation Mode • Louver • Temperature Setting • RC Operation Prohibited • Filter Sign Passet

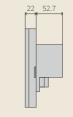
*The "All Groups Run/Stop" command signal exception function for selected groups is available via the "Exception of Run/Stop Operation" function.

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.



Lateral view (mm)



Capacity

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

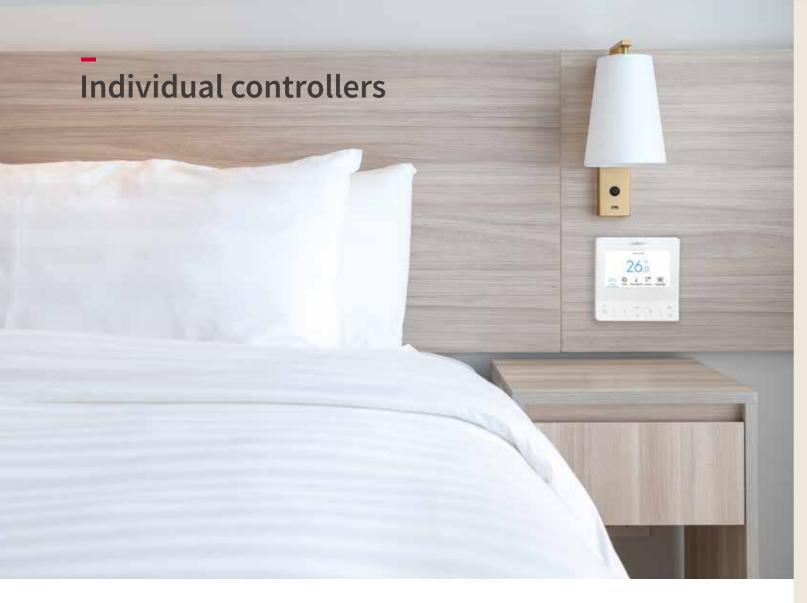
Specifications

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 RC Operation Prohibited Setting Accumulated Operating Time Operation Mode • Setting Fan Speed Setting Louver • Filter Sign • Alarm Code"
Control Function	 Run/Stop* • Fan Speed Operation Mode • Louver Temperature Setting RC Operation Prohibited Filter Reset Signal

^{* &}quot;All Groups Run/Stop" command signal exception function for selected groups is available by "Exception of Run/Stop Operation." function.



Advanced color wired mote 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

- 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

Eco-Compact Model (PC-ARC-A)

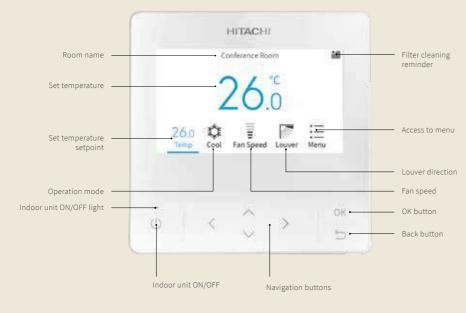
- · Support Near Field Communications(NFC) contactless-enabled system commissioning via airCloud Tap smartphone app
- Embedded IR Receiver(for selected wireless remote)
- · User friendly segment UI design

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

		ADVANCED-COLOR CONTROLLER	ECO-COMPACT CONTROLLER	WIRED REMOTE CONTROLLER	ADVANCED WIRELESS REMOTE CONTROLLER	WIRELESS REMOTE CONTROLLER
		26) 14.73	9 3d	- CO.		1000 1000 1000 1000
		NEW PC-ARFG1-A	NEW DC ADC A	LICWA10NECO	PC-AWR	PC-LH7QE2
	No of RC-Group	NEW PC-ARPGI-A	NEW PC-ARC-A	HCWA10NEGQ 1	- PC-AWK	PC-LH7QE2
Connection Capacity	No of indoor units	16	16	16	-	-
Product Size	Width*Height*Depth (mm)	120×120×16.5	90x90x15.5	88×88×15.5	140×55×16.8	140×52×19.3
		(D: thinnest part)	(D: thinnest part) Segment LCD with	Segment LCD with		
Screen		Color LCD with backlight	backlight	backlight	Segment LCD	Segment LCD
Embedded IR receiver		- () ()	• () () ()	-	-	-
Smartphone App	Use With Aircloud Tap Run / Stop	(support NFC)	(support NFC)	-	-	-
	Operation Mode	•	•	•	•	•
Essential Operations	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		- (Capacity Control Only)	-	-	-
	Power Savings/Night Quiet Schedule	•	-	-	-	-
	Power Consumption Display	•	-	-	-	-
	AutoBoost Comfort Setting	•	(GentleCool only)	-	-	-
Advanced	Sleep Mode	-	• (centicesoronity)	-	-	-
Feature Settings	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	•	-	-	-	-
	Adjusting Date/Time Daylight Saving Time	•	-	-	-	-
	Run Indicator Brightness Adjustment	•	● (Only On/Off setting)	-	-	-
	Display Adjustment	•	<u>.</u>	-	<u>.</u>	-
Display Settings	Temperature Units (°C/°F) Temperature setting at 0.5°C step	•	•	•	•	- (°C only) - (1.0°C only)
	Room Temperature Display		•	•	-	(1.0 C Only)
	Language available	EN, JPN,CN (traditional	EN	EN	EN	EN
	Keypad Touch Sound	&simplified),FR, ES,PT	•	(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)	-	-
Service Functions	Dual Setpoint	•	-	-	-	-
	Main/Sub Display Set Room Name	•	-	-	-	-
	Set Contact Information		-	-	-	-
	NFC Setting	•	•	-	-	-
	Simple Maintenance Check Menu	•	-	-	-	-
	Test Run Function Selection		•	•	-	
	Thermistor Selection	•	(in Function Selection)	(in Function Selection)	-	-
	Input/Output	•	•	•	-	-
	Thermistor Calibration in Controller Fan Speed At Thermo-Off	•	● (in Function Selection) ● (in Function Selection)	(in Function Selection)	-	-
	Indoor Unit Address Change		(ITPUTCUOT Selection)	(III Function Selection)	-	
	Address Check Operation	•	-	-	-	-
Installation Functions	Address Initialization	•	-	-	-	-
	Setting Initialization Main/Sub Controller Setting	•	•	•	-	-
	Priority Setting	•	-	•	-	-
	Cancel Preheating Control	•	-	-	-	-
	Elevating Grille Setting Power Up Setting	•	-	-	-	-
	Setback Trigger Unit	•	-	-	-	-
	Refrigerant Leak Sensor Setting	•	-	-	-	-
	Check 1 Check 2	•	•	•	-	-
Charle Me	Alarm History Display		•	•	-	-
Check Menu	Display Model Number	•	-	-	-	-
	Check PCB of the Units Self Check	•	-	-	-	
		(Only avaible from	(Only avaible from	-	-	-
	Synchronize Date/ time with Central Controller	Central Station EX	Central Station EX	-	-	-
	Stop operation delay	PSC-A128EX3)	PSC-A128EX3)			
Other features	Emergency operation		•	-	-	-
	Two WRC Control	•	•	-	-	-
	Alarm Display	•	•	•	-	-
	Filter cleaning reminder sign display			•	_	_



Outer dimensions (H×W×D)

120*×120×16.5mm (thinnest) 120*×120×21.5mm (thickest)

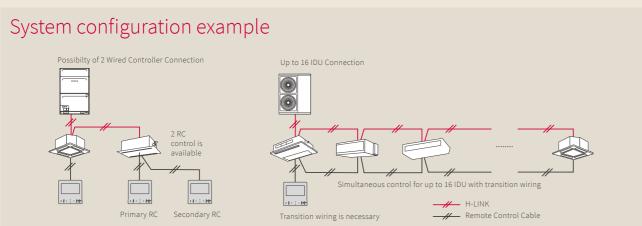
*H is the height of the unit from the front, without the protrusion at the bottom.







reddot winner 2021



Functions

Language Setting Chinese (Simplified/Traditional), Japanese English(C/F), French, Portuguese, Spanish

	Simple Timer		Lock Function		Setting Initialization	
	Operation Schedule		Password Setting NEW		Main Remote Setting	
	Power-Saving Setting		Hotel Mode NEW	Service	Priority Setting	
	Night Quiet Operation		Power Saving Detail Setting	and installa-	Cancel Preheating Control	
	Power-Saving/Night Quiet Schedule	Service	Temperature Range Restriction	tion menu / Installation	Elevating Grille Setting	
	Autoboost	and installa-	Dual Setpoint	Instattation	Power Up Setting	
	Comfort Setting	tion menu / Service	Main/Sub Display		Setback Trigger Unit	
Function	Motion Sensor Setting		Set Room Name		Check 1	
menu	Setback Setting		Set Contact Information		Check 2	
	Elevating Grille		NFC Setting NEW	Service and	Alarm History Display	
	Reset Filter Reminder Time		Simple Maintenance	installation	Display Model Number	
	Filter cleaning		Test Run	menu / Check	Check PCB of the Units	
FrostWash [™] Setting NEW		Function Selection		Self Check		
	Individual Louver Setting		Input/Output		oen oncen	
	Louver Open/Close	- Service	Thermistor Selection			
	Ventilation	and installa-	Thermistor Calibration NEW			
	Total Heat Exchanger SET	tion menu /				
	Adjust Date/Time	Installation	Fan Speed at Thermo-Off NEW			
	Run Indicator Brightness		Indoor Unit Address Change			
Screen Dis-	Display Adjustment		Address Check Operation			
nlay cotting			Address Initialization			

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

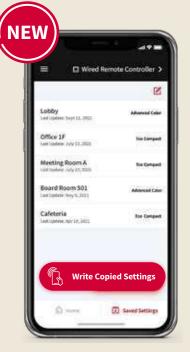
Import time and date settings from your mobile phone directly into the Advanced Color Controller.

Room address

Operation

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



Function selection

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

Scheduling

View weekly schedules clearly and make quick adjustments easily.

Function selection



1 Activate the NFC function on the controller.



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

Maintenance & service



Error & history

Complete service check data is displayed including connected indoor and outdoor units, refrigeration cycle information,

sensor data, and more. Error alarm & history

Troubleshooting

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



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.



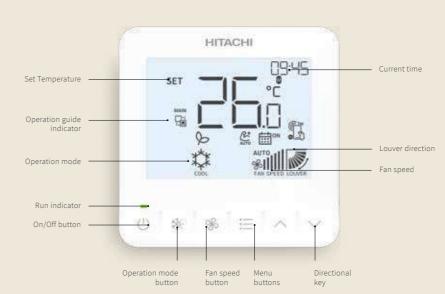




air Cloud Tap is available for free in Google Store and IOS appstore. Quick sign up with minimal personal information.

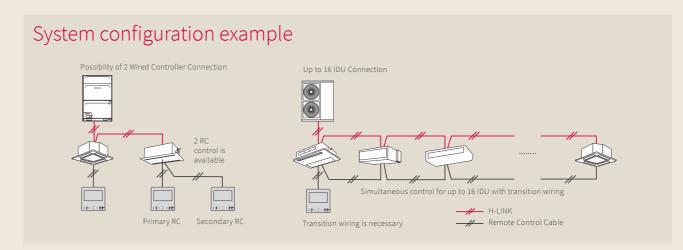


Eco-Compact Controller (PC-ARC-A)



Outer dimensions (H×W×D)

90×90×15.5mm (thinnest part) 90×90×18.5mm (thickest part)



Functions

	Current time display		Operation schedule
	Clock synchronization with central controller NEW		chedule ON/OFF
	Room Temperature display		Simple timer
	°C/°F unit selection		Sleep Mode timer NEW
Controller setting	Backlight	Advanced user controls	Comfort setting (GentleCool)
Setting	Embedded IR receiver NEW	user controls	AutoBoost
	Embedded thermistor		Individual louver control (for ceiling cassettes
	NFC airCloud Tap communication NEW		Power saving setting (Peak-cut)
	Language: English (+ Arabic in PC-ARC-U)		Filter sign (time) reset
	Start/Stop		Function selection
	Set temperature		Test run
Essential AC controls	Louver position (air flow direction)	Installation & service	Input & output settings
AC CONTIONS	Fan Speed	& Service	Operation lock
	Operation Mode		Temperature upper and lower limits

Prohibition after forced stop

Alarm monitor, Alarm reset

Alarm history

Emergency operation
Indoor unit address and refrigerant system No. change

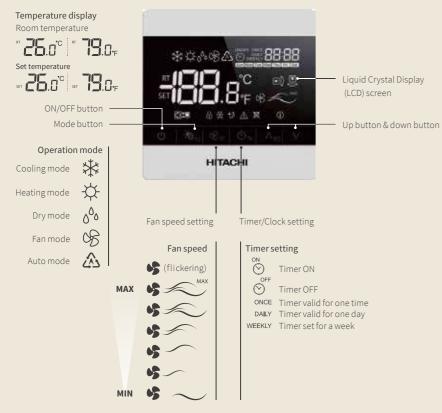
Check 1, Check 2 (troubleshooting)
Controller Self-check

The Eco-compact controller does not support the

o-compact controller does not support the following ons: cassette elevating grille, FrostWash, and motion -related features. Please note this is not an exhaustive

Individual controllers

Wired remote controller (HCWA10NEGQ)



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
	Sensor Condition Check
Service	Sensor Data Check
	Alarm History Display
	Test Run
	Function Selection (Optional Function Setting)
Test Run	Thermistor Selection
rest Kuii	Thermistor Calibration
	Input / Output Setting
	Indoor Unit Address Change
	Operation Lock/Set
Management	Lower Limit for Cooling Operation
	Upper Limit for Heating Operation
Schedule	Simple Timer (On/Off)
Scriedate	Date/time setting

- 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

Advanced wireless remote controller (PC-AWR)



Outer dimensions (H×W×D)

(mm) 140.0×55.0×16.8

Functions

	Run/Stop	
	Operation Mode	
	Auto Mode Setting	
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	
Service	Side-by-side indoor	
Service	unit identification	
	Temperature Unit °C/°F	
Schedule	Built-in Timer (On/Off)	

Wireless remote controller (PC-LH7QE2)



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			
	Service	Side-by-side indoor unit identification			
		Temperature Unit °C			
	Schedule	Built-in Timer (On/Off)			

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

Receiver kit for wireless remote controller

		HR4A10NEWQ	PC-ALHC1	PC-ALHD1	PC-RLHN12QE		PC-RLH11	PC-RLH11	
Receiver Kit	Model	0		0		Inbuilt	Ö	Ö	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	RCI-FSKDNQ	RCIM-FSN4	RCD-FSR	RCIS-FSKDNQ	RPFC-FSNQ*	RPIZ-HNATNQ	RPFI-FSNQ	RPK-FSNK1/2
							RPIL-FSNK RPIM-FSNK		RPK-FSN4M
Compatible wireless remote controller		_	•	•	-	-	•	•	•
	PC-LH3E	_	-	-	-	-	•	•	•
	PC-LH7QE2	•	-	-	•	-	_	_	_

^{*} Wireless remote controller is provided as standard item for RPFC-FSNQ models.

 $Centralized \ controller \ (mini) \ cannot \ be \ operated \ when \ you \ use \ standard \ receiver \ kit \ (PC-RLH11) \ equipped \ with \ wireless \ remote \ controller \ (PC-LH3C).$

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 operation prohibited by each function setting" from central station (mini).

104

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.

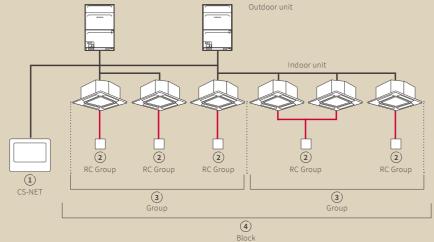






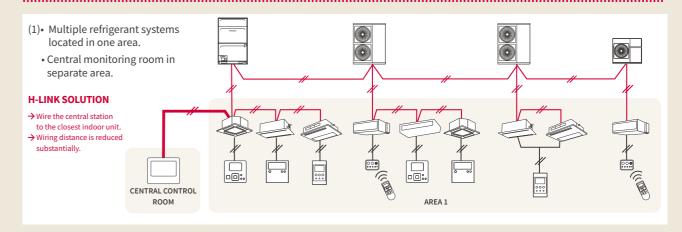
No adapter is needed!
Simple connection to terminal blocks.

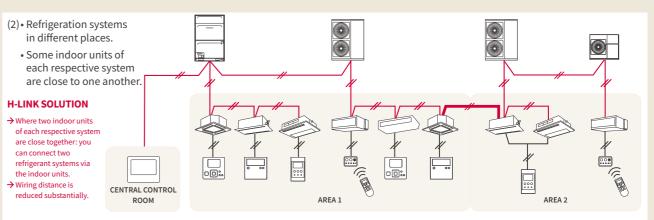
Definition of terms in Hitachi centralized control systems

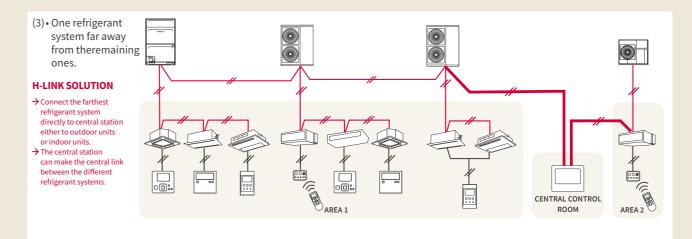


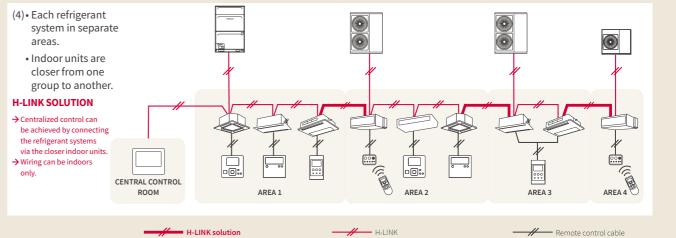
- (1) CS-NET/Central station
 - → Hitachi original centralized controller.
- (2) RC Group (Remote Controller System Group)
 - → Stands for a number of indoor units (up to 16 units) connected using "same remote controller" wiring. In this group, connected indoor units are all controlled in the same way.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









NOTES NOTES