

air365 Max

VARIABLE REFRIGERANT FLOW SYSTEM
HEAT PUMP & COOLING MODEL

Cooling & Heating



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

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

May 2024

NEW

2024



Index

03

Message

11

Outdoor units

15 | End-to-end solution

39 | Outdoor unit line up overview

02

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

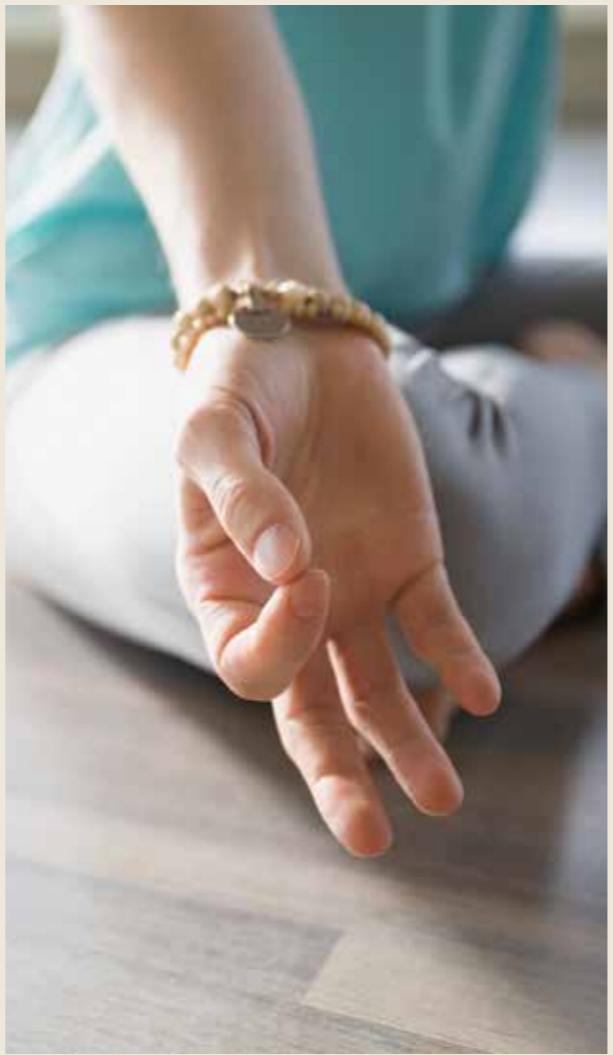
103 | H-link



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



Hotel



School



Hospital



FLEXIBILITY

- 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.

FLEXIBILITY

- 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.

FLEXIBILITY

- 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

FLEXIBILITY

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

SUSTAINABLE GROWTH

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

WELL-BEING

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

Adapted to everyone's needs

Features, advantages and benefits at a glance

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



For Architects

Those who design the building

EASY TO WORK WITH

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

DESIGN

- Large capacity yet smaller-footprint units (1.2m² 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 energy-consumption at 33% part load operation
- Uses 10% less refrigerant in average
- Demand control operation available to achieve forcible entire power saving



For System Designer (Contractor or Consultant)

Those who design the HVAC solution

EASY TO WORK WITH

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

DESIGN

- Design faster with airCloud Select
- Large capacity yet smaller-footprint units (1.2m² 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 smaller-footprint cabinet

OPERATE

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

MAINTAIN

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

INCREDIBLE ENERGY EFFICIENCY

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

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



For Installer

Those who install & service the solution

EASY TO WORK WITH

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

DELIVER

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

INSTALL

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

COMMISSION

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

OPERATE

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

MAINTAIN

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



For End Customer (Investor/Owner)

Those who pay for the system

SEAMLESS COMFORT

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

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

INCREDIBLE ENERGY EFFICIENCY

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

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

EASY TO WORK WITH

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

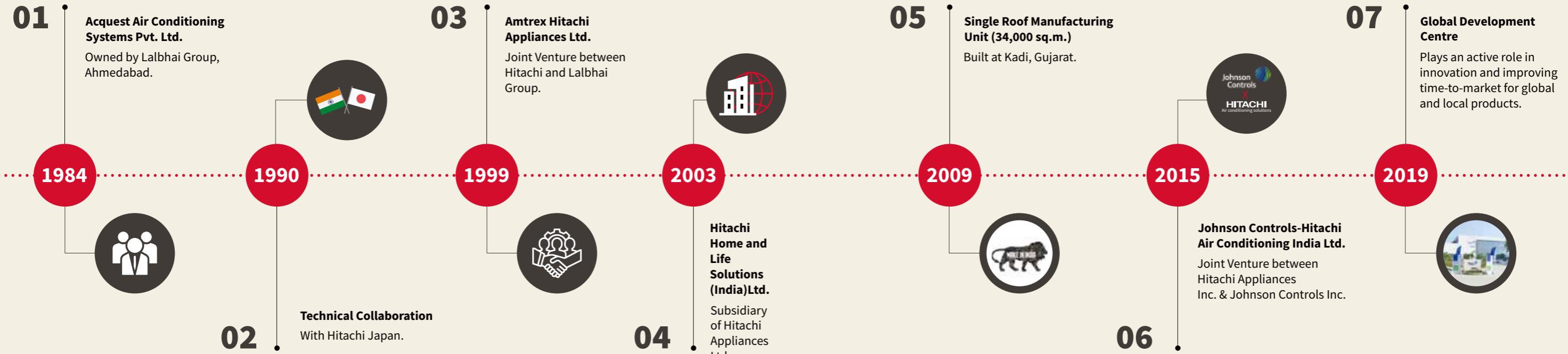
OPERATE

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

MAINTAIN

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

OUR MILESTONES



State-of-the art facility at Kadi, Gujarat

HIGHLIGHTS

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



OUTDOOR UNITS

15 End-to-end solution

16 Best-in-class efficiency

16 Easy to work with

16 Seamless comfort

17 Boost your energy efficiency

33 Enjoy the perfect air anywhere, anytime

39 Outdoor unit line up overview

41 Specifications

55 Option / Accessories

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



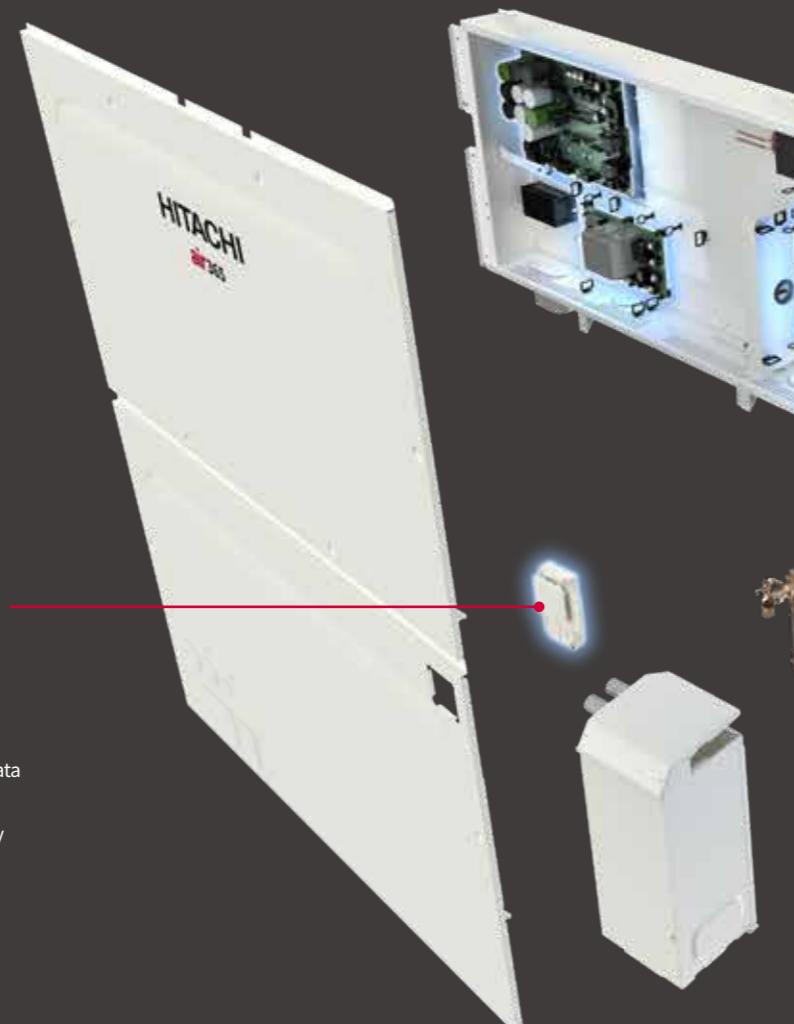
air365 Max
End-to-end solution

Technology



SmoothDrive technology

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



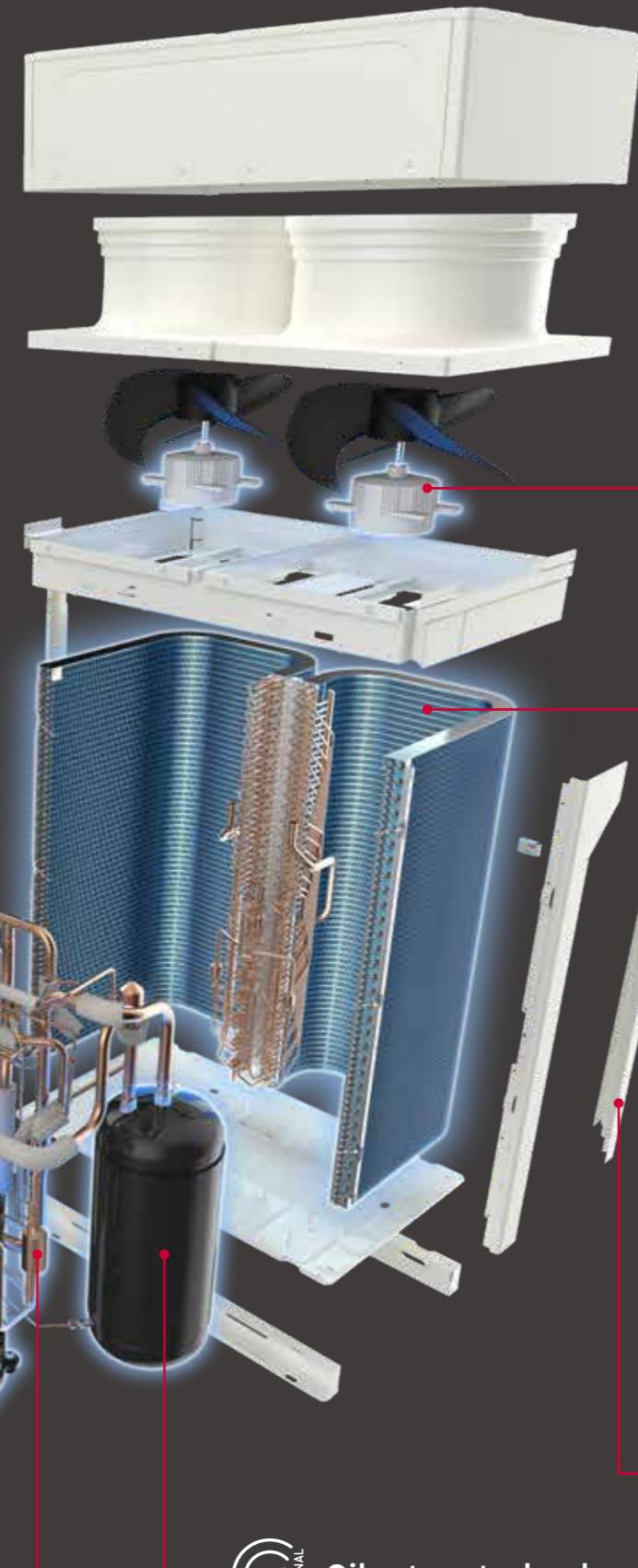
airCloud Tap + NFC technology

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



Gas-injection Scroll Compressor

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



Oil-return technology

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

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



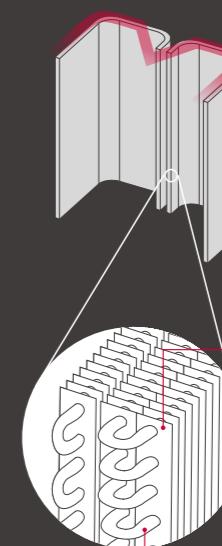
Smart Defrost

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



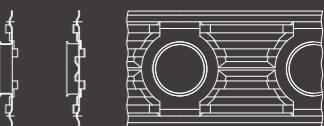
Patented Sigma-shape with patented path structure

Σ shape!



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

Plate Fin



Tube



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

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

End-to-end solution



1

Best-in-class efficiency

Offers significant improvements in energy consumption thanks to the higher EER & SmoothDrive technology which helps to reduce running costs during part-load operation. This can lead to reduced 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 part-load operation with SmoothDrive 2.0
- ✓ Neighborhood-friendly outdoor unit with 3dB(A) lower noise output in average by Night Shift Mode in average

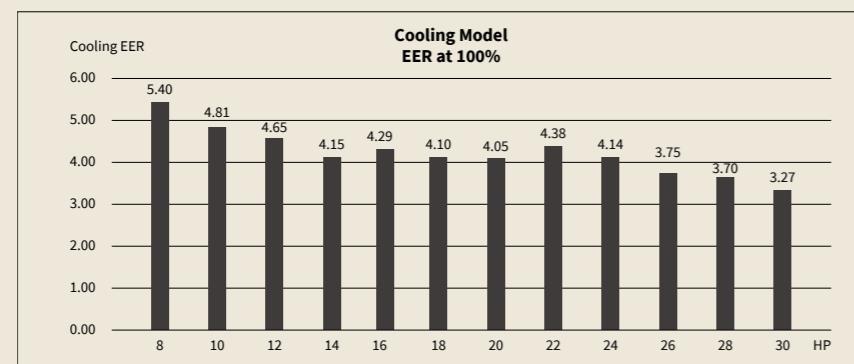
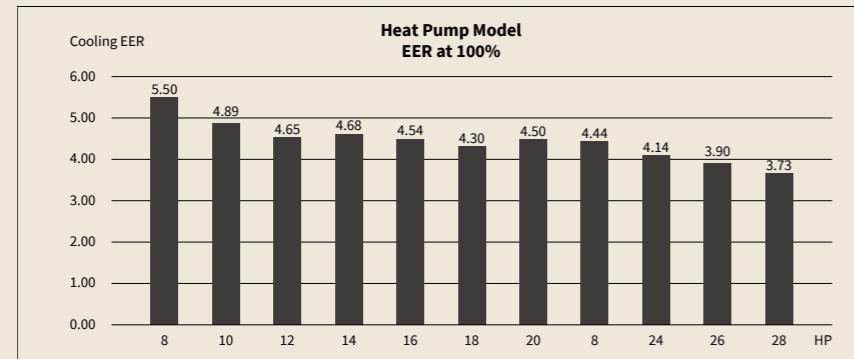
Boost your energy efficiency

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

High efficiency ratio

- Best-in-class efficiency

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



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



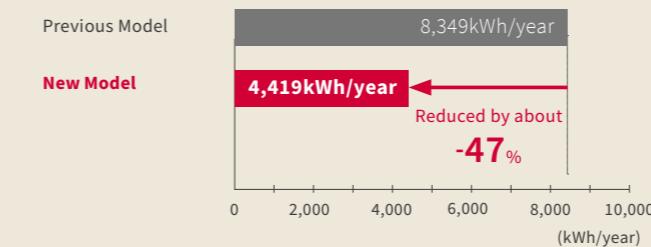
Ideal for Renovation Projects

- Reduce energy consumption and carbon footprint by 47%*

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

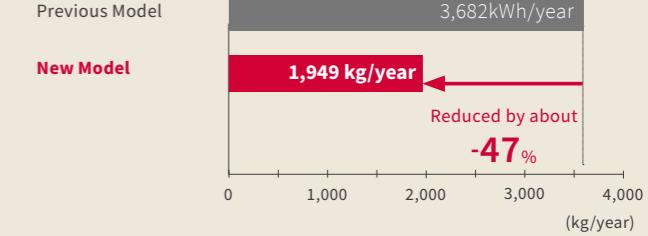
Electricity consumption reduction

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



CO₂ emission reduction

CO₂ emissions
(for a 10HP class (28.0kW) equivalent system)



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

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

- Uses 10% less refrigerant in average*

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

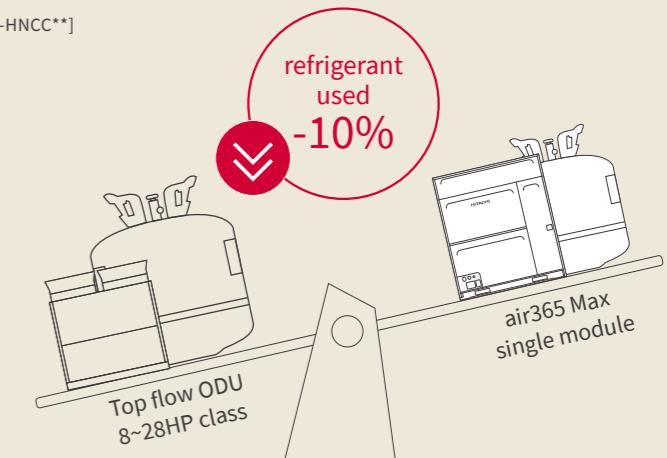
Comparison of (for a system equivalent to 16HP class (45.0kW))
Between [RAS-FSNS previous model VRF of 5years ago] VS [air365 Max RAS-HNCC**]

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

-12% refrigerant* used!

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

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





SmoothDrive™ 2.0 : Superior compressor control

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

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

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

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

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

People coming and going...



Changes in outdoor weather conditions...



Variations in temperature preferences...

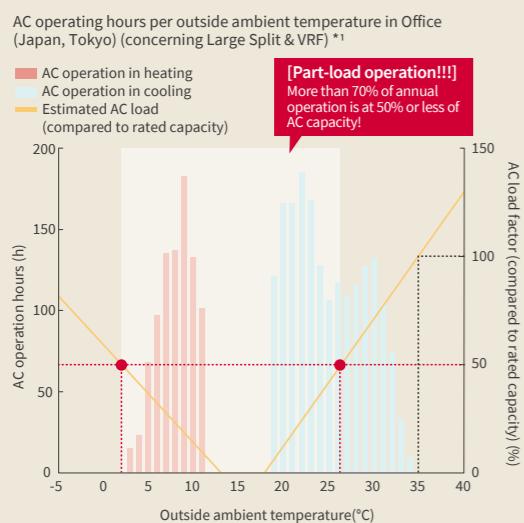


This causes VRF systems to operate at partial load

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

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

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



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

QR

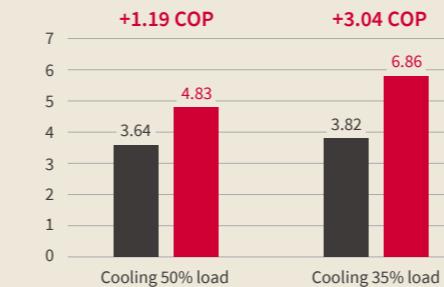
Please refer to the leaflet for details



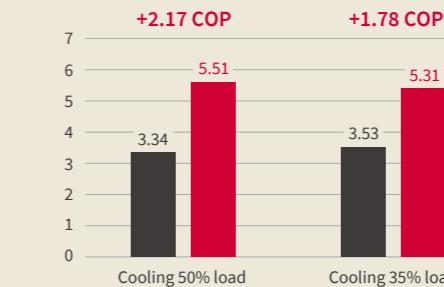
Real-world energy efficiency**

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

COP in Cooling mode



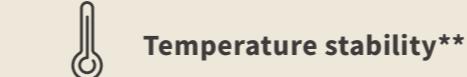
COP in Heating mode



■ without SmoothDrive
■ with SmoothDrive

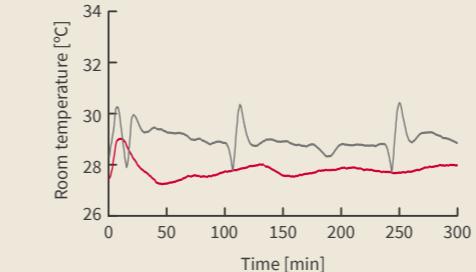
* Averaged power/load are calculated for 5 hours from start

* COP = Averaged load / Averaged power

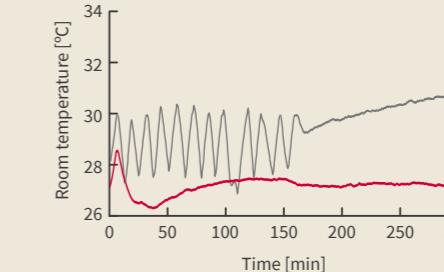


With continuous monitoring and adjustment of the capacity based on compressor speed, indoor temperatures can be maintained more accurately

Cooling 50% Load



Cooling 35% Load



Set temp: 27°C
Initial IDU temp: 27°C / 19°C
— Air Inlet temperature of IDUs (without SmoothDrive)
— Air Inlet temperature of IDUs (with SmoothDrive)



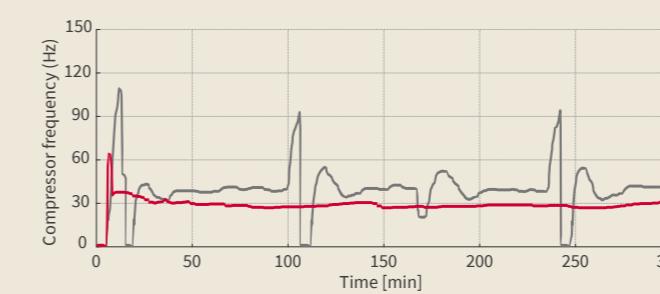
Smoother compressor operation**

Compressor rotation frequency is more precise and stable.

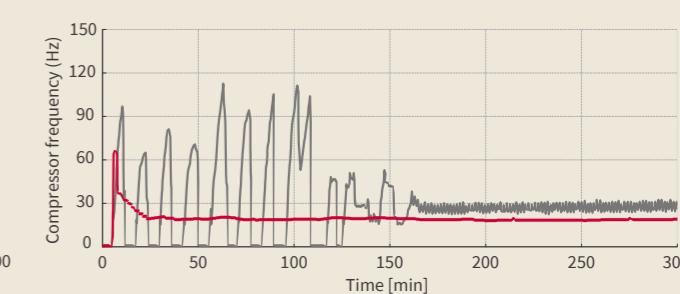
On/Off cycles are reduced, while peaks and drops are diminished, reducing wear on the compressor.

— without SmoothDrive
— with SmoothDrive

Cooling 50% Load



Cooling 35% Load



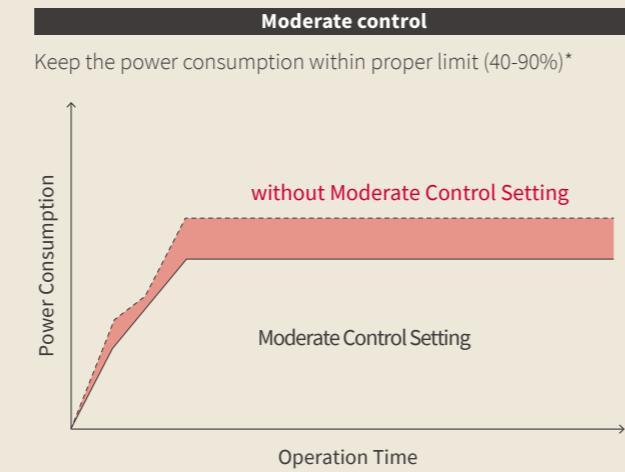
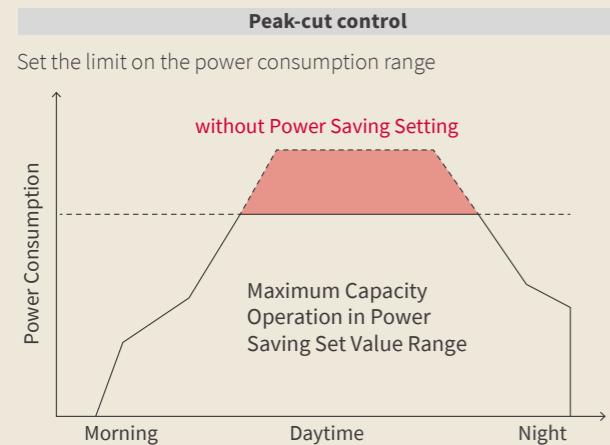
Demand control

- 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.



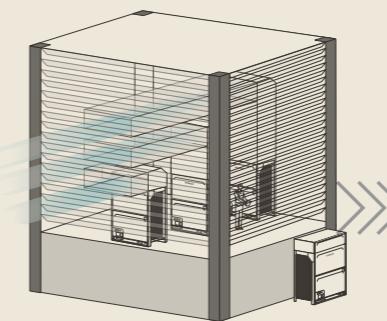
* Power Saving Set Value It can be selected from 100%, 90%, 80%, 70%, 60%, 50%, and 40% of reference power consumption.

Thanks to 200% IDU connection ratio

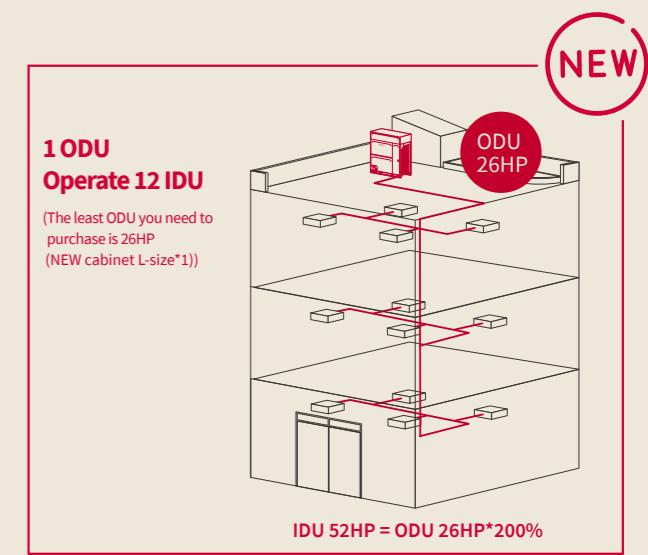
In case that IDU total capacity are 52HP

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%



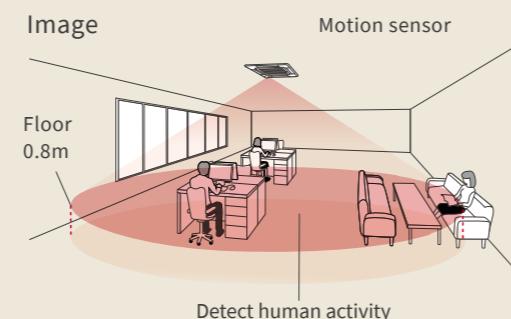
* above 130% contact sales team or Channel partner/Dealer

Better energy saving operation (Motion Sensor Control)

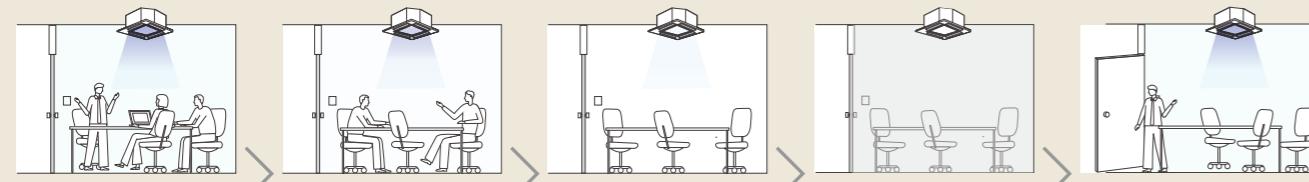
- Compatible internal units (IDUs) can automatically detect occupancy and automate operation accordingly

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

Save more

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

Forgetting to turn off

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

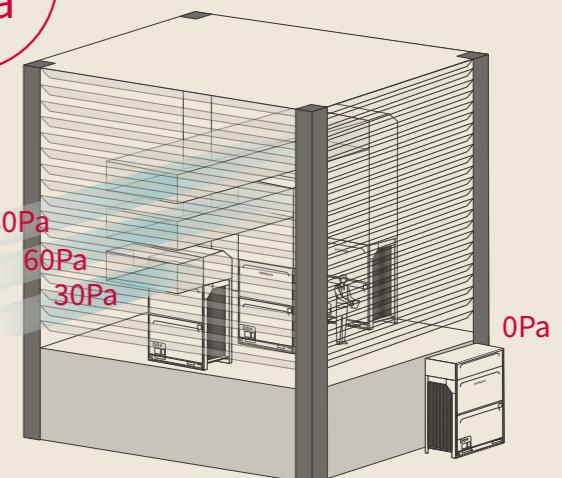
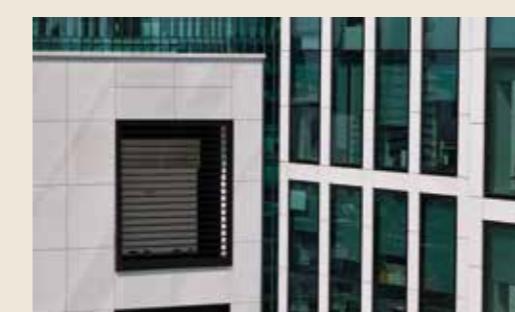
Resume

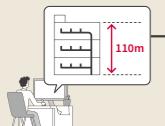
Resume standard operation when people return

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.





System Design

More flexible piping configuration

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

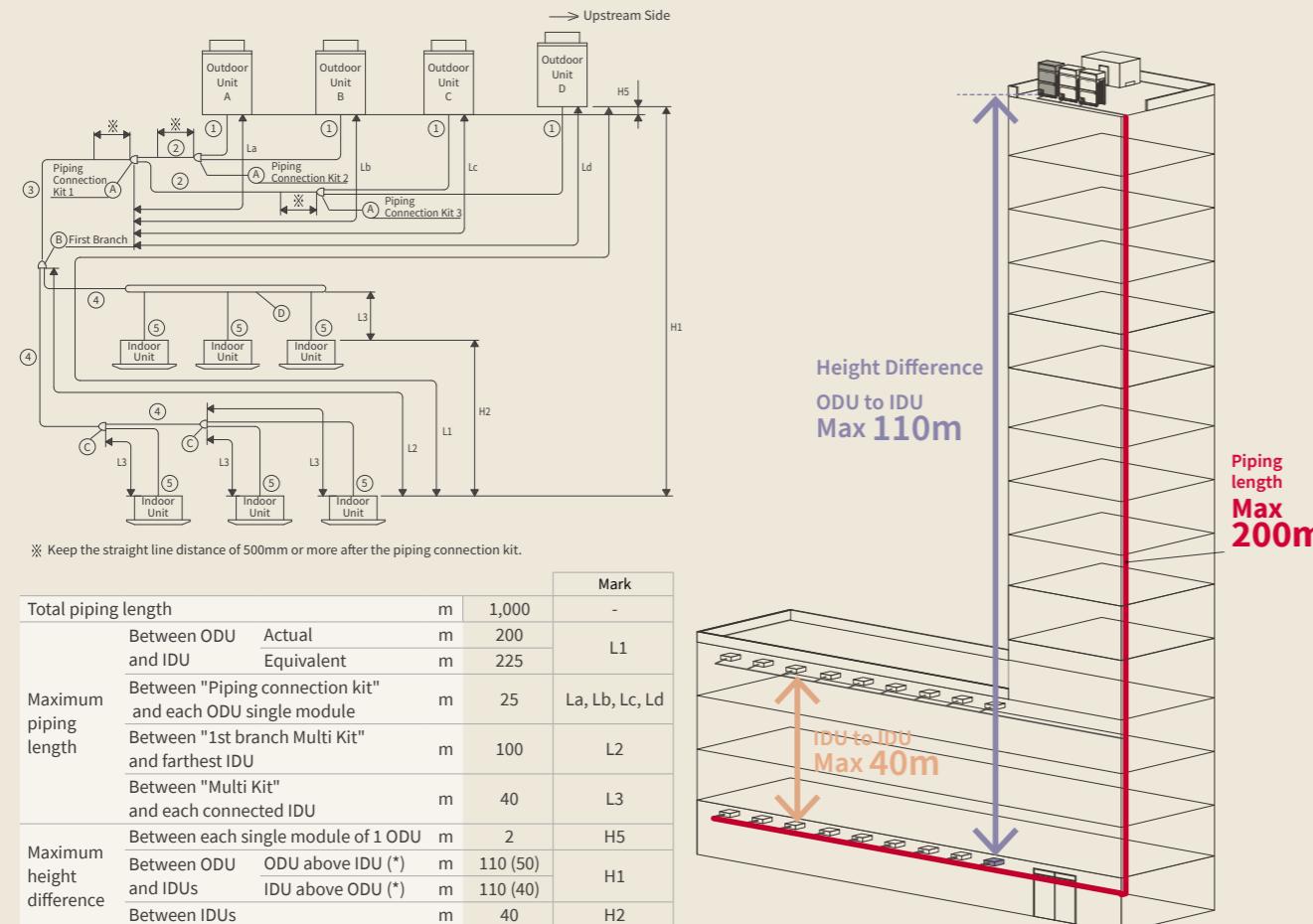
Larger pipe runs and greater height differences enable more flexibility for use in retrofit or renovation projects

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 >



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-Ionic 4-way cassette panel

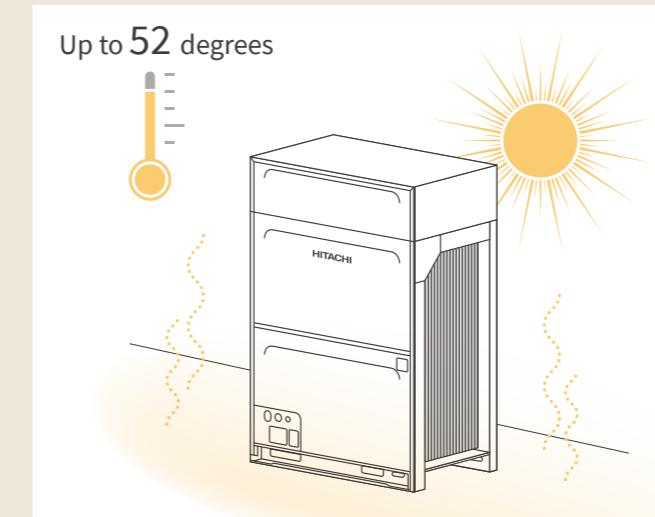


Anytime & Anywhere

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

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

Summer temperature



Cooling operation from up to 52°C ambient temperature

Winter temperature



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

Anti-Corrosion Cabinet + Gecko-proof treatment

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



Corrosion Resistance

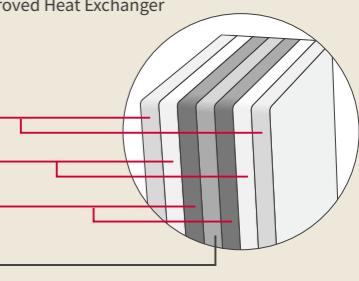
Life-expectancy comparison in salty-air-location

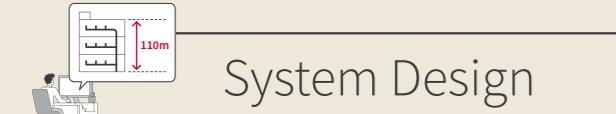
Standard		2 times longer!
Anti-corrosive Treatment Custom Order		2 times longer!
Heavy anti-corrosive Treatment Custom Order		

Corrosion-resistance improved Heat Exchanger

3 Coating Layers

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





airCloud Select

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

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

airCloud Select is available upon request. Availability varies per country.
For more information, please contact your Hitachi Cooling & Heating representative or visit www.hitachiaircon.com



reddot winner 2022
interface design

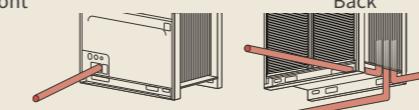


Choice of piping direction

- 4 directions, 9 options

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

Front



Back



[Front]

- Through the piping port on the front panel cover
- Through the Unit base hole

[To the left]

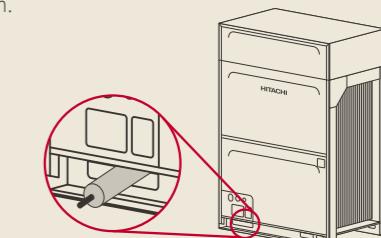
- From bottom of the cabinet
- Through the Unit base hole

[To the right]

- Through the piping port on the front cover
- From bottom of the cabinet

[To the rear]

- Through the Unit base hole

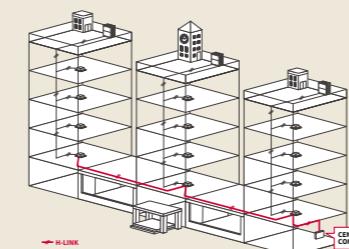


H-LINK: flexible route of communication wiring

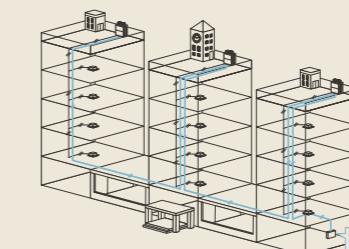
- Faster wiring with H-LINK

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

H-LINK



Company A



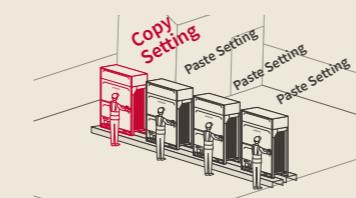
- ODU configuration: 4X faster
- IDU/controller configuration: 2X faster

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

Download
airCloud Tap!

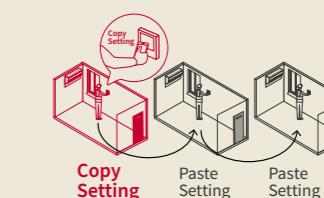


76% time reduction (ODU configuration)



- Conventional way to open and close the cover and manipulate dip/power switch: >>> takes 40min 40sec
- 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)



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





Commission

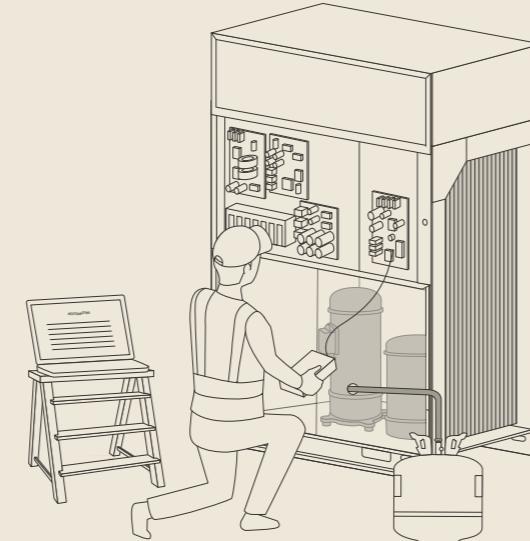
Service Checker

- Quicker & easier commissioning

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

Key features

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



Operation

Monitoring app airCloud Pro

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

For stand-alone and multi-site applications.





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

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



Individual controllers PC-ARFG1 / PC-ARC

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

ADVANCED-COLOR CONTROLLER (PC-ARFG1-*)



Complete controls in a rich interface

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

ECO-COMPACT CONTROLLER (PC-ARC-*)



Contactless settings via
airCloud Tap

Value without compromise

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



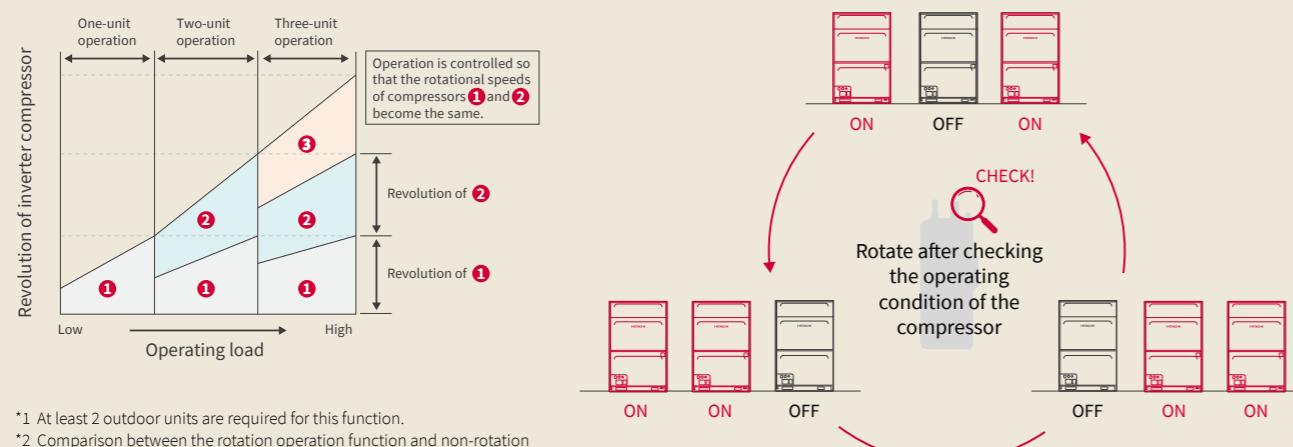
Maintenance

Compressor rotation control

- Extend ODU lifecycle

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

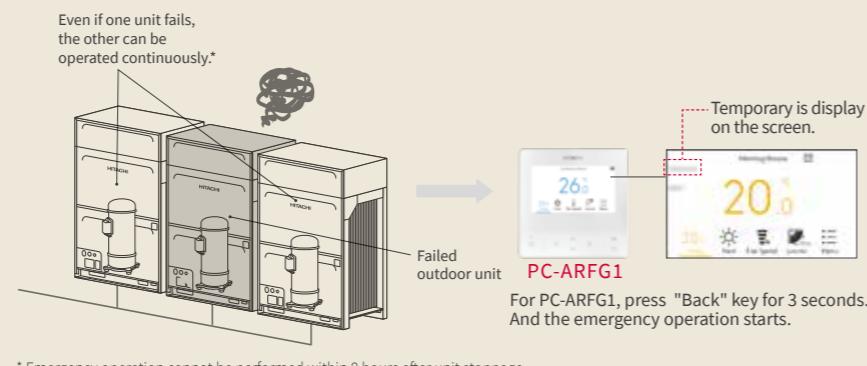
Compressor rotation frequency control (example)



Emergency operation mode

- Continue HVAC operation in the event of a unit failure

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

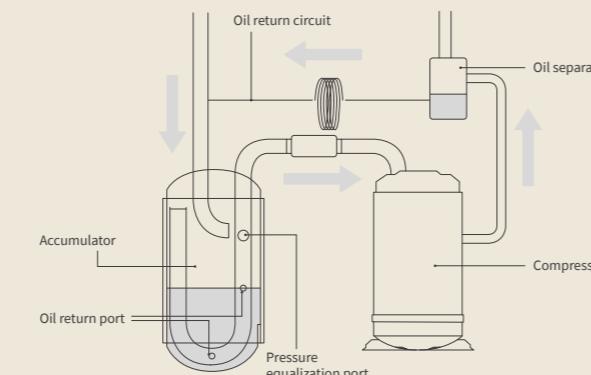


Oil-return control

- Patented oil control for lower noise and higher energy efficiency

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

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



airCloud Tap for faster maintenance

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

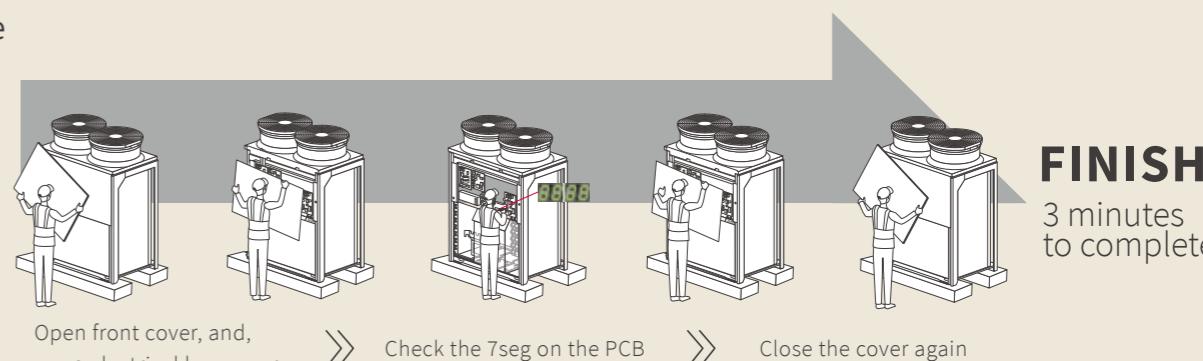
Previously, a maintenance engineer would need to open both the front panel of the cabinet and electricity box panel, then check error codes on the PCB.

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

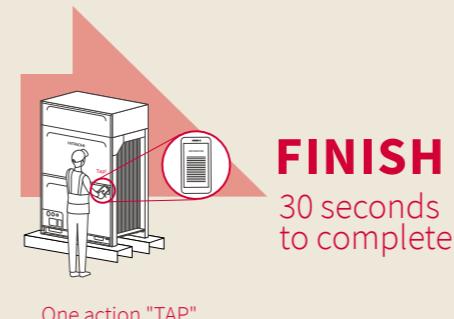
No need to open the panel to check simple data anymore!!!

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

Before



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



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

Powerful support app for your quick configuration & maintenance

Available on the App Store

ANDROID APP ON Google Play



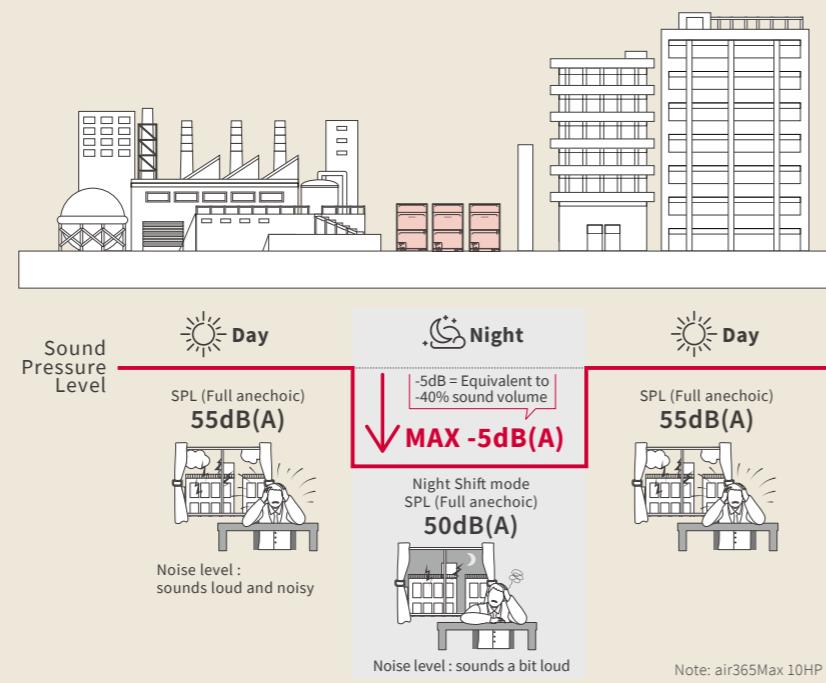
EASY TO WORK WITH

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.

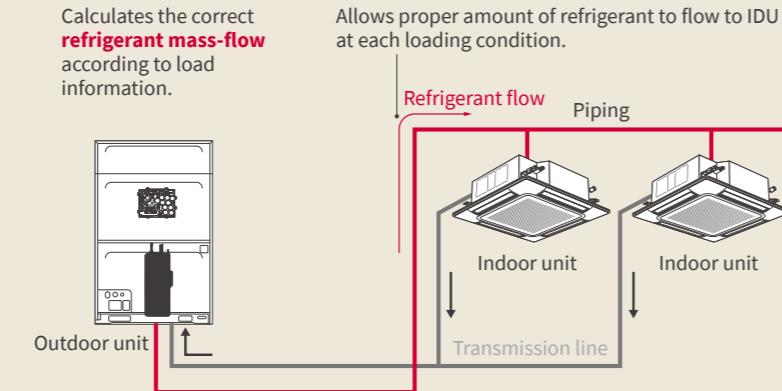
#Normal Sound Pressure Level (SPL) in Full Anechoic VS #Night-shift mode (SPL) in Full Anechoic Average -3.0dB(A)
Reference: Architectural Institute of Japan "Sound insulation performance standards and design guidelines for buildings"



DIRECT capacity control SmoothDrive™ 2.0

- Constant indoor temperature even during part-load operation

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



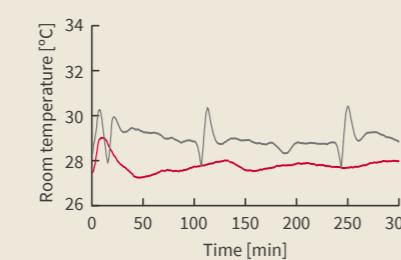
- SmoothDrive helps the scroll compressor to run continuously and smoothly even at part-load condition.
- Our original load-speculation technology helps reduce energy loss caused by scroll compressor switching on/off.
- Consequently, constant room temperature & energy savings can be achieved.



50% Load

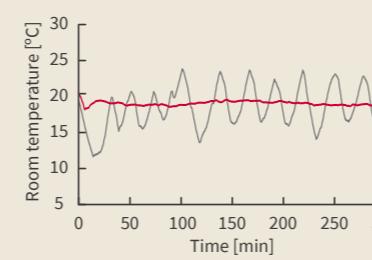
Cooling Mode

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



Heating Mode

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



* Outdoor Unit: 10HP class. Indoor Unit: 5HP Class 4-way cassette unit * 2 pcs. In our own company's fixed-load testing facility/Dimension of the room per one indoor unit : 5.6m×2.5m×3.1m).

Outdoor temp (DB / WB): 29°C / 19°C. Load per room (Sensible / Latent): 4.9kW / 0.0kW. Set temperature: 27°C. Initial Indoor unit temperature (DB / WB) : 27°C / 19°C. Indoor unit fan airflow rate: Hi-mode.



IAQ matter (optional accessory)

ViroSense S filter*

Our standard VRV 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



over 99% Inhibition



over 99% Inhibition



100% growth stop

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

AQtiv-Ion Kit*

AQtiv-Ion Kit for Ducted units

- Easily installed in a VRV 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



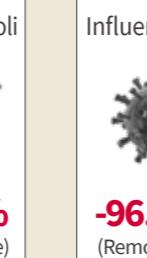
BENEFITS



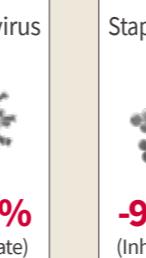
-99.9%
(Inhibition rate)



-96.64%
(Inhibition rate)



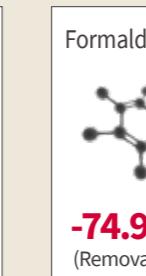
-96.85%
(Removal rate)



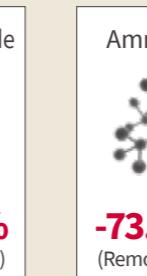
-93.88%
(Inhibition rate)



-94.46%
(Removal rate)



-74.90%
(Removal rate)



-73.20%
(Removal rate)

* Applicable for HAPQ Ducted IDU only

Smart cool/heat changeover

- Optimized comfort for all users during season changes

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

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

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

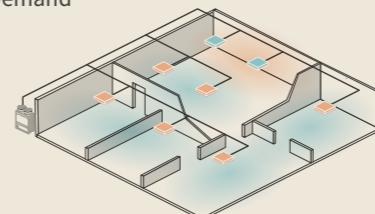
Example of 3 modes

① Majority mode

Under the conditions

Request for cooling mode: 2 units
Request for heating mode: 6 units

Demand



Result

Adopted Heating mode

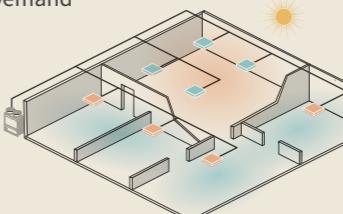


② Larger gap mode

Under the conditions

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

Demand



Result

Adopted Cooling mode

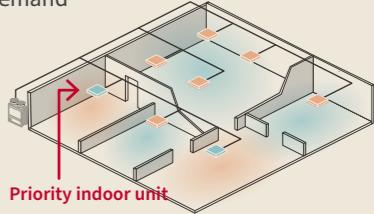


③ Priority unit mode

Under the conditions

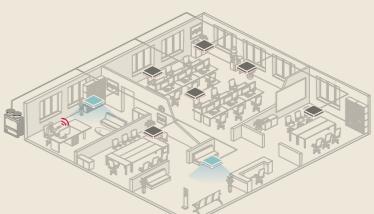
Priority indoor unit requests cooling mode

Demand



Result

Adopted Cooling mode



Outdoor unit lineup overview



LINE UP

HP Class

8 HP - 12 HP Class

14 HP - 18 HP Class

20 HP - 28 HP Class

Single module
up to 28HP class!

Specification Notes

- (Note 1) The cooling and heating performances are the values when combined with our specified indoor units.
(Cooling: 27°C DB/15°C WB indoor side, 35°C DB outdoor side; Heating: 20°C DB indoor side, 7°C DB/6°C WB outdoor side; Piping Length: 7.5 Meters; Piping Lift: 0 Meter)
- (Note 2) The electric characteristics show values of single outdoor unit.
- (Note 3) The operating sound is based on the following conditions: 1 Meter from the unit service cover surface, and 1.5 Meters from floor level. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
- (Note 4) The dimension shows values when a space between outdoor units is 20 mm.
- (Note 5) In case of setting low ambient temperature at cooling operation, the minimum capacity of connectable indoor unit should be 2.5HP.
- (Note 6) When 0.6HP indoor unit is combined, the total capacity of combined indoor units should be not over 15% against the outdoor unit capacity.
- (Note 7) Refrigerant piping has some installation limitation in specific condition. Please refer to technical manual for more details.
- (Note 8) When connection ratio of outdoor unit and indoor unit is over 1:one, additional setting is required. Air volume of indoor unit is restricted under some of condition. Please refer to technical manual for more details.
- (Note 9) Outside temperature (-10°C) is for special application requiring optional accessory (snow protection hood). The number <> shows Interval Operation Range. Please refer to technical manual for more details.
- (Note 10) It is recommended to follow "Recommended IDU number" to avoid the cold draft during the heating operation. Please refer to technical manual for more details.
- (Note 11) Some restrictions would be applied when the height difference between outdoor units and indoor units is more than 30m; in case of ODU above IDU; or >40m; in case of IDU above ODU. Please refer to technical manual for more details.

Specifications Heat Pump



Capacity range	Unit	8HP class	10HP class	12HP class	14HP class	16HP class	18HP class	20HP class	22HP class	24HP class	26HP class	28HP class
Outdoor unit model		RAS-080HNCLI	RAS-100HNCLI	RAS-120HNCLI	RAS-140HNCLI	RAS-160HNCLI	RAS-180HNCLI	RAS-200HNCLI	RAS-220HNCLI	RAS-240HNCLI	RAS-260HNCLI	RAS-280HNCLI
Combination of modules	-	-	-	-	-	-	-	-	-	-	-	-
Power supply	-	3N~380-415V 50Hz	3N~380-415V 50Hz	3N~380-415V 50Hz	3N~380-415V 50Hz	3N~380-415V 50Hz	3N~380-415V 50Hz	3N~380-415V 50Hz	3N~380-415V 50Hz	3N~380-415V 50Hz	3N~380-415V 50Hz	3N~380-415V 50Hz
Cooling capacity	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	67.0	73.0	77.5
Heating capacity	kW	25.0	31.5	37.5	45.0	50.0	56.0	63.0	69.0	77.5	81.5	86.0
Outer dimensions (W x D x H)	mm	975×775×1805	975×775×1805	975×775×1805	1235×775×1805	1235×775×1805	1235×775×1805	1625×775×1805	1625×775×1805	1625×775×1805	1625×775×1805	1625×775×1805
Weight	Net weight	kg	207	212	226	281	281	282	364	364	364	390
	Gross weight	kg	226	231	245	302	303	303	388	388	388	414
Noise	Cooling rating	SPL (Full-anechoic)	dB(A)	52.0	55.0	57.0	59.0	61.0	61.0	63.0	63.0	62.0
	Night shift mode (noise reduction setting)	SPL (Full-anechoic)	dB(A)	49.0	50.0	52.0	57.0	58.0	57.0	56.0	57.0	57.0
Compressor	Compressor type	-	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
Outdoor unit Fan	Number of Fan Motors	-	1	1	1	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
Main pipe size	Heat pump	Gas piping	mm	19.05	22.2	25.4	25.4	28.58	28.58	28.58	28.58	31.75
	Liquid piping	mm	9.52	9.52	12.7	12.7	12.7	15.88	15.88	15.88	15.88	19.05
	Tubing connection method	-	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection
Operating temperature range	Cooling	°C DB	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C
	Heating	°C WB	-15°C~16°C	-15°C~16°C	-15°C~16°C	-15°C~16°C	-15°C~16°C	-15°C~16°C	-15°C~16°C	-15°C~16°C	-15°C~16°C	-15°C~16°C
Maximum External static pressure	Pa	80	80	80	80	80	80	80	80	80	80	80
Maximum Total piping length	m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Refrigerant	Type	-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Initial charge amount	kg	5.6	5.6	8.3	8.9	9.5	10.2	11.2	11.2	11.5	11.5
	Maximum additional charge amount	kg	28.0	28.0	36.0	40.0	40.0	40.0	46.0	46.0	46.0	56.0
	Refrigerant control mode	-	Microcomputer-controlled electronic expansion valve				Microcomputer-controlled electronic expansion valve					
Refrigerant oil	Type	-	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge amount	L	6.0	6.0	6.0	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%
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)
	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

Specifications Heat Pump

	MS	MM	LM						LL				
Capacity range	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-300HNCLI	RAS-320HNCLI	RAS-340HNCLI	RAS-360HNCLI	RAS-380HNCLI	RAS-400HNCLI	RAS-420HNCLI	RAS-440HNCLI	RAS-460HNCLI	RAS-480HNCLI	RAS-500HNCLI	
Combination of modules		RAS-180HNCLI RAS-120HNCLI	RAS-180HNCLI RAS-140HNCLI	RAS-180HNCLI RAS-160HNCLI	RAS-180HNCLI RAS-180HNCLI	RAS-220HNCLI RAS-160HNCLI	RAS-220HNCLI RAS-180HNCLI	RAS-240HNCLI RAS-180HNCLI	RAS-220HNCLI RAS-220HNCLI	RAS-240HNCLI RAS-220HNCLI	RAS-240HNCLI RAS-240HNCLI	RAS-260HNCLI RAS-240HNCLI	
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	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 (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	
	Gross weight	kg	303+245	303+302	303+303	303+303	388+303	388+303	388+303	414+388	414+388	414+388	
Noise	Cooling rating	SPL (Full-anechoic)	dB(A)	62	63	64.0	64.0	65	65	64.0	66	65	
	Night shift mode (noise reduction setting)	SPL (Full-anechoic)	dB(A)	58	60.0	61	60.0	61	60.0	60.0	60.0	62	
Compressor	Compressor type	-	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	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	
	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
Main pipe size	Gas piping	mm	31.75	31.75	31.75	38.1	38.1	38.1	38.1	38.1	38.1	38.1	
	Liquid piping	mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	
	Tubing connection method	-	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	
Operating temperature range	Cooling	°C DB	-5°C ~52°C	-5°C ~52°C	-5°C ~52°C	-5°C ~52°C	-5°C ~52°C	-5°C ~52°C	-5°C ~52°C	-5°C ~52°C	-5°C ~52°C	-5°C ~52°C	
	Heating	°C WB	-15°C~16°C	-15°C~16°C	-15°C~16°C	-15°C~16°C	-15°C~16°C	-15°C~16°C	-15°C~16°C	-15°C~16°C	-15°C~16°C	-15°C~16°C	
Maximum External static pressure	Pa	80	80	80	80	80	80	80	80	80	80	80	
Maximum Total piping length	m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Refrigerant	Type	-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	
	Initial charge amount	kg	18.5	19.1	19.7	20.4	20.7	21.4	21.7	22.4	22.7	23.0	
	Maximum additional charge amount	kg	56.5	56.5	56.5	56.5	56.5	56.5	56.5	63.0	63.0	63.0	
	Refrigerant control mode	-	Microcomputer-controlled electronic expansion valve						Microcomputer-controlled electronic expansion valve				
Refrigerant oil	Type	-	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	
	Charge amount	L	12.9	13.8	13.8	13.8	15.3	15.3	15.3	16.8	16.8	16.8	
	Connected capacity ratio	%	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)	-	64 (32)	64 (32)	64 (32)	64 (32)	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	

Specifications Heat Pump

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

Specifications Heat Pump

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

Specifications Heat Pump



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Capacity range	Unit	96HP class	98HP class	100HP class	102HP class	104HP class	106HP class	108HP class	110HP class	112HP class	
Outdoor unit model		RAS-960HNCLI	RAS-980HNCLI	RAS-H00HNCLI	RAS-H02HNCLI	RAS-H04HNCLI	RAS-H06HNCLI	RAS-H08HNCLI	RAS-H10HNCLI	RAS-H12HNCLI	
Combination of modules		RAS-240HNCLI RAS-240HNCLI RAS-240HNCLI RAS-240HNCLI RAS-240HNCLI	RAS-260HNCLI RAS-260HNCLI RAS-260HNCLI RAS-260HNCLI RAS-260HNCLI	RAS-260HNCLI RAS-260HNCLI RAS-260HNCLI RAS-260HNCLI RAS-260HNCLI	RAS-260HNCLI RAS-260HNCLI RAS-260HNCLI RAS-260HNCLI RAS-260HNCLI	RAS-280HNCLI RAS-280HNCLI RAS-280HNCLI RAS-280HNCLI RAS-280HNCLI	RAS-280HNCLI RAS-280HNCLI RAS-280HNCLI RAS-280HNCLI RAS-280HNCLI	RAS-280HNCLI RAS-280HNCLI RAS-280HNCLI RAS-280HNCLI RAS-280HNCLI	RAS-280HNCLI RAS-280HNCLI RAS-280HNCLI RAS-280HNCLI RAS-280HNCLI	RAS-280HNCLI RAS-280HNCLI RAS-280HNCLI RAS-280HNCLI RAS-280HNCLI	
Power supply	-	3N~ 380-415V 50Hz									
Cooling capacity	kW	268.0	274.0	280.0	286.0	292.0	296.5	301.0	305.5	310.0	
Heating capacity	kW	310.0	314.0	318.0	322.0	326.0	330.5	335.0	339.5	344.0	
Outer dimensions (W x D x H)	mm	6560×775×1805	6560×775×1805	6560×775×1805	6560×775×1805	6560×775×1805	6560×775×1805	6560×775×1805	6560×775×1805	6560×775×1805	
Weight	Net weight	kg	364+364+364+364	390+364+364+364	390+390+364+364	390+390+364+364	390+390+390+390	390+390+390+390	390+390+390+390	390+390+390+390	
	Gross weight	kg	388+388+388+388	414+388+388+388	414+414+388+388	414+414+414+414	414+414+414+414	414+414+414+414	414+414+414+414	414+414+414+414	
Noise	Cooling rating	SPL (Full-anechoic)	dB(A)	67.0	67	68	68.0	68.0	68.0	68.0	
	Night shift mode (noise reduction setting)	SPL (Full-anechoic)	dB(A)	63.0	64.0	65	65	66.0	66.0	66.0	
Compressor	Compressor type		-	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	
	Motor output	kW	(0.47×2)×4	0.58×2+(0.47×2)×3	(0.58×2)×2+(0.47×2)×2	(0.58×2)×3+0.47×2	(0.58×2)×4	0.58×2+(0.58×2)×3	(0.58×2)×2+(0.58×2)×2	(0.58×2)×3+0.58×2	(0.58×2)×4
Main pipe size	Heat pump Gas piping	mm	50.8	54.0	54.0	54.0	54.0	54.0	54.0	54.0	
	Liquid piping	mm	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	
	Tubing connection method		-	Brazing connection							
Operating temperature range	Cooling	°C DB	-5°C ~52°C								
	Heating	°C WB	-15°C~16°C								
Maximum External static pressure	Pa	80	80	80	80	80	80	80	80	80	
Maximum Total piping length	m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Refrigerant	Type	-	R410A								
	Initial charge amount	kg	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	
	Maximum additional charge amount	kg	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	
	Refrigerant control mode	-	Microcomputer-controlled electronic expansion valve				Microcomputer-controlled electronic expansion valve				
Refrigerant oil	Type	-	FVC68D								
	Charge amount	L	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	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)	
	Connectable minimum capacity	-	0.6HP class								

Specifications

Cooling



Capacity range	Unit	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP	28HP	
Outdoor unit model		RAS-080CNCLLI	RAS-100CNCLLI	RAS-120CNCLLI	RAS-140CNCLLI	RAS-160CNCLLI	RAS-180CNCLLI	RAS-200CNCLLI	RAS-220CNCLLI	RAS-240CNCLLI	RAS-260CNCLLI	RAS-280CNCLLI	
Power supply	-	3N~380-415V 50Hz	3N~380-415V 50Hz	3N~380-415V 50Hz	3N~380-415V 50Hz	3N~380-415V 50Hz	3N~380-415V 50Hz	3N~380-415V 50Hz	3N~380-415V 50Hz	3N~380-415V 50Hz	3N~380-415V 50Hz	3N~380-415V 50Hz	
Cooling capacity	kW	22.4	28	33.5	40	45	50.4	56	61.5	67	73	77.5	
Outer dimensions (W x D x H)	mm	960×775×1,805	960×775×1,805	960×775×1,805	960×775×1,805	1,220×775×1,805	1,220×775×1,805	1,220×775×1,805	1,600×765×1,795	1,610×775×1,805	1,610×775×1,805	1,610×775×1,805	
Weight	Net weight	kg	202	207	223	227	271	277	2277	360	360	379	
	Gross weight	kg	218	223	239	243	291	297	297	383	383	402	
Noise	Cooling rating	SPL (Full-anechoic) dB(A)	52	55	57	59	61	61	61	61	62	62	
	Night shift mode (noise reduction setting)	SPL (Full-anechoic) dB(A)	49	50	52	54	56	56	56	57	57	60	
Compressor	Compressor type	-	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	
	Rated air volume	m ³ /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	
	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	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	
Operating temperature range	°C DB	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	
Maximum External static pressure	Pa	80	80	80	80	80	80	80	80	80	80	80	
Maximum Total piping length	m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Refrigerant	Type -	-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	
	Initial charge amount kg	kg	5.6	5.6	8.3	8.3	9.5	10.2	10.2	11.2	11.6	11.6	11.6
	Maximum additional charge amount kg	kg	28	28	36	36	40	40	40	46	46	56	56
	Refrigerant control mode -	-	Microcomputer-controlled electronic expansion valve				Microcomputer-controlled electronic expansion valve						
Refrigerant Oil	Type -	-	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	
	Charge amount L	L	6	6	6	6	6.9	6.9	6.9	8.4	8.4	8.4	8.4
With Indoor unit	Connected capacity ratio %	%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%
	Maximum Number of connectable units (recommended number of units)	-	20 (8)	25 (10)	30 (10)	36 (16)	40 (16)	45 (16)	50 (18)	55 (20)	60 (26)	64 (26)	64 (32)
	Connectable minimum capacity -	-	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class

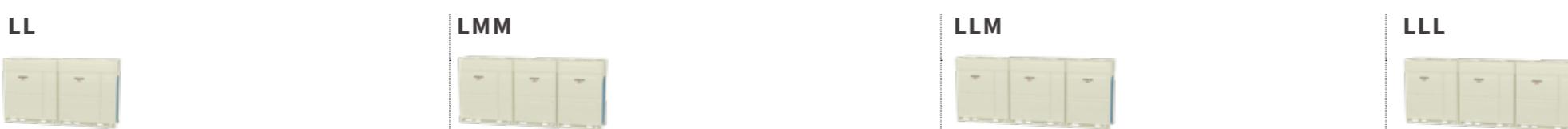
Specifications

Cooling

	MS	MM	LM	LL							
Capacity range	Unit	30HP	32HP 34HP 36HP	38HP 40HP 42HP	44HP 46HP 48HP 50HP						
Outdoor unit model		RAS-300CNCLI	RAS-320CNCLI RAS-340CNCLI RAS-360CNCLI	RAS-380CNCLI RAS-400CNCLI RAS-420CNCLI	RAS-440CNCLI RAS-460CNCLI RAS-480CNCLI RAS-500CNCLI						
Combination of modules	-		RAS-180CNCLI RAS-140CNCLI	RAS-220CNCLI RAS-160CNCLI RAS-180CNCLI	RAS-220CNCLI RAS-240CNCLI RAS-240CNCLI RAS-240CNCLI						
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 (Full-anechoic)	dB(A) 65	63 64 64	64 64 64	64 64 64 65						
Noise Night shift mode	SPL (noise reduction setting)	dB(A) (Full-anechoic) 60	58 59 59	60 60 60	60 60 60 62						
Compressor	-	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 Outdoor unit Fan Number of Fan Motors Motor output	m3/min - kW	405 2+1 0.71×2	207+263 2+2 0.38×2+0.51 256+263 2+2 0.38×2+0.35×2 263+263 (0.38×2)×2	256+329 2+2 0.4×2+0.35×2	263+329 2+2 0.4×2+0.38×2	263+348 2+2 0.47×2+0.38×2	329+329 2+2 (0.4×2)×2	329+348 2+2 0.47×2+0.4×2	348+348 2+2 (0.47×2)×2	348+375 2+2 0.58×2+0.47×2
Main pipe size	Gas piping Main pipe size Liquid piping	mm mm	31.75 19.05	31.75 19.05 19.05 38.1	38.1 19.05 19.05 38.1	38.1 19.05 19.05 38.1	38.1 19.05 19.05 38.1	38.1 19.05 19.05 38.1	38.1 19.05 19.05 38.1	38.1 19.05 19.05 38.1	
Operating temperature range	°C DB	-5°C~52°C	-5°C~52°C -5°C~52°C -5°C~52°C	-5°C~52°C -5°C~52°C -5°C~52°C	-5°C~52°C -5°C~52°C -5°C~52°C	-5°C~52°C -5°C~52°C -5°C~52°C	-5°C~52°C -5°C~52°C -5°C~52°C	-5°C~52°C -5°C~52°C -5°C~52°C	-5°C~52°C -5°C~52°C -5°C~52°C	-5°C~52°C -5°C~52°C -5°C~52°C	
Maximum External static pressure	Pa	80	80 80 80	80 80 80	80 80 80	80 80 80	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	
Refrigerant	Type - Initial charge amount kg Refrigerant Maximum additional charge amount kg Refrigerant control mode -		R410A 11.6 56	R410A 18.5 76	R410A 19.7 80	R410A 20.4 80	R410A 21.4 86	R410A 21.8 86	R410A 22.4 92	R410A 22.8 92	R410A 23.2 102
Refrigerent Oil	Type - Charge amount L	- L	FVC68D 8.4	FVC68D 12.9	FVC68D 13.8	FVC68D 13.8	FVC68D 15.3	FVC68D 15.3	FVC68D 16.8	FVC68D 16.8	FVC68D 16.8

Specifications

Cooling



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

Specifications

Cooling

LLL



LLLM



LLLL



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

Specifications

Cooling



LLLL



Capacity range	Unit	96HP	98HP	100HP	102HP	104HP	106HP	108HP	110HP	112HP	114HP	116HP	118HP	120HP	
Outdoor unit model		RAS-960CNCLI	RAS-980CNCLI	RAS-H00CNCLI	RAS-H02CNCLI	RAS-H04CNCLI	RAS-H06CNCLI	RAS-H08CNCLI	RAS-H10CNCLI	RAS-H12CNCLI	RAS-H14CNCLI	RAS-H16CNCLI	RAS-H18CNCLI	RAS-H20CNCLI	
Combination of modules	RAS-240CNCLI	RAS-260CNCLI	RAS-260CNCLI	RAS-260CNCLI	RAS-260CNCLI	RAS-280CNCLI		RAS-280CNCLI	RAS-280CNCLI	RAS-280CNCLI	RAS-300CNCLI	RAS-300CNCLI	RAS-300CNCLI	RAS-300CNCLI	
	RAS-240CNCLI	RAS-240CNCLI	RAS-260CNCLI	RAS-260CNCLI	RAS-260CNCLI	RAS-260CNCLI		RAS-280CNCLI	RAS-280CNCLI	RAS-280CNCLI	RAS-300CNCLI	RAS-300CNCLI	RAS-300CNCLI	RAS-300CNCLI	
	RAS-240CNCLI	RAS-240CNCLI	RAS-240CNCLI	RAS-260CNCLI	RAS-260CNCLI	RAS-260CNCLI		RAS-260CNCLI	RAS-280CNCLI	RAS-280CNCLI	RAS-280CNCLI	RAS-300CNCLI	RAS-300CNCLI	RAS-300CNCLI	
	RAS-240CNCLI	RAS-240CNCLI	RAS-240CNCLI	RAS-240CNCLI	RAS-240CNCLI	RAS-260CNCLI		RAS-260CNCLI	RAS-260CNCLI	RAS-280CNCLI	RAS-280CNCLI	RAS-280CNCLI	RAS-280CNCLI	RAS-300CNCLI	
Power supply	-	3N~ 380-415V	3N~ 380-415V	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	
Cooling capacity	kW	268	274	280	286	292	296.5		301	305.5	310	316.5	323	329.5	329.5
Outer dimensions (W x D x H)	mm	6,500×775×1,805	6,500×775×1,805	6,500×775×1,805	6,500×775×1,805	6,500×775×1,805	6,500×775×1,805	6,500×775×1,805	6,500×775×1,805	6,500×775×1,805	6,500×775×1,805	6,500×775×1,805	6,500×775×1,805	6,500×775×1,805	6,500×775×1,805
Weight	Net weight	kg	360+360+360+360	360+360+360+379	360+360+379+379	360+379+379+379	379+379+379+379	379+379+379+379	379+379+379+379	379+379+379+379	379+379+379+379	379+379+379+379	379+379+379+379	379+379+379+379	379+379+379+379
	Gross weight	kg	383+383+383+383	383+383+402+402	383+383+402+402	383+402+402+402	402+402+402+402	402+402+402+402	402+402+402+402	402+402+402+402	402+402+402+402	402+402+402+402	402+402+402+402	402+402+402+402	402+402+402+402
Noise	Cooling rating	SPL	dB(A)	67	67	68	68	68	68	68	68	69	70	70	70
	(Full- Night shift mode (noise reduction setting))	SPL	dB(A)	63	64	65	65	66	66	66	66	66	66	66	66
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	m ³ /	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+405	375+375+405+405	375+405+405+405	405+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
Main pipe size	Gas piping	mm	50.8	54	54	54	54	54	54	54	54	54	54	54	54
	Liquid piping	mm	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	28.58	28.58	28.58	28.58
Refrigerant	Tubing connection method	-	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection	Brazing connection
	Operating temperature range	°C DB	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C	-5°C~52°C
Refrigerant oil	Initial charge amount kg	kg	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
	Refrigerant Maximum additional charge amount k	kg	184	194	204	214	224	224	224	224	224	224	224	224	224
With Indoor Unit	Refrigerant control mode -	-	Microcomputer-controlled electronic expansion valve		Microcomputer-controlled electronic expansion valve										
	Type	-	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge amount	L	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
	Connected capacity ratio	%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%
	Maximum Number of connectable units (recommended number of units)	-	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)
	Connectable minimum capacity	-	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class



Option

1) Piping Connection Kit

*For Heat Pump (2 Pipes)

Model name	Combined X modules	Applicable Outdoor Unit		Remarks
		air365 Max		
MC-NP21SA1	2	30 to 48 HP		for Gas : 1 for Liquid : 1
MC-NP22TA		50 to 56 HP		
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)

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

(After First Branch)

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



Indoor units



Comfort first

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

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

57 PRODUCT DETAIL

57 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

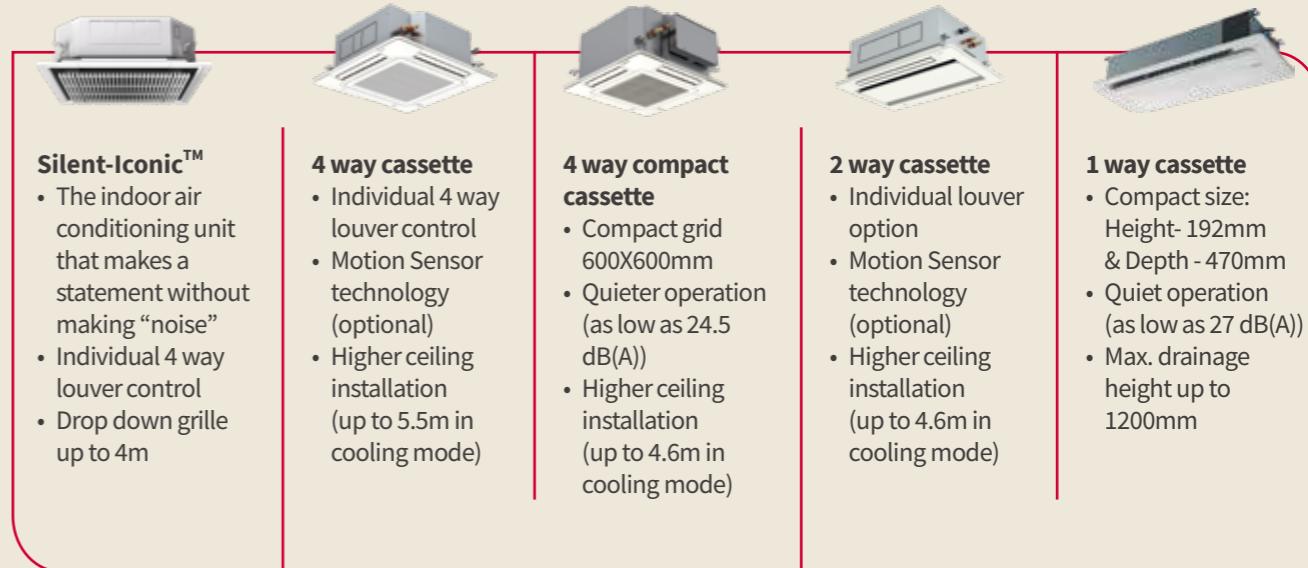
73 SPECIFICATIONS

Choice for perfect indoor experience

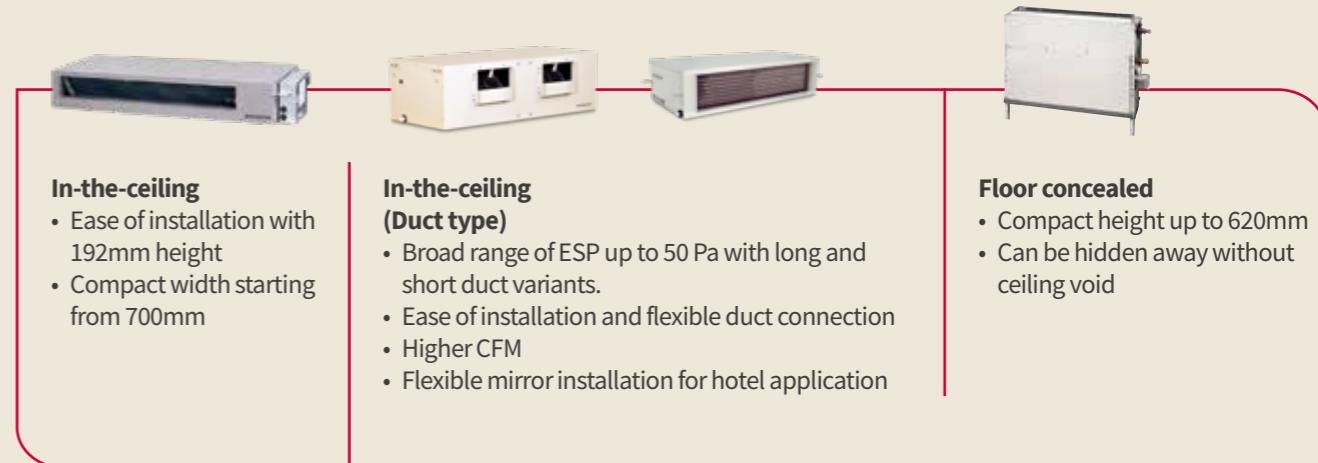
Indoor Unit Category	HP									
	0.8	1.0	1.5	2.0	2.5	3.0	4.0	5.0	6.0	
4 way cassette		✓	✓	✓	✓	✓	✓	✓	✓	
Silent-Iconic™		✓	✓	✓	✓	✓	✓	✓	✓	
4 way compact cassette		✓	✓	✓	✓					
2 way cassette		✓	✓	✓	✓	✓	✓	✓	✓	
1 way cassette*		✓		✓	✓					
In-the-ceiling		✓	✓	✓	✓					
In-the-ceiling (Duct type)*		✓	✓	✓	✓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

Key information

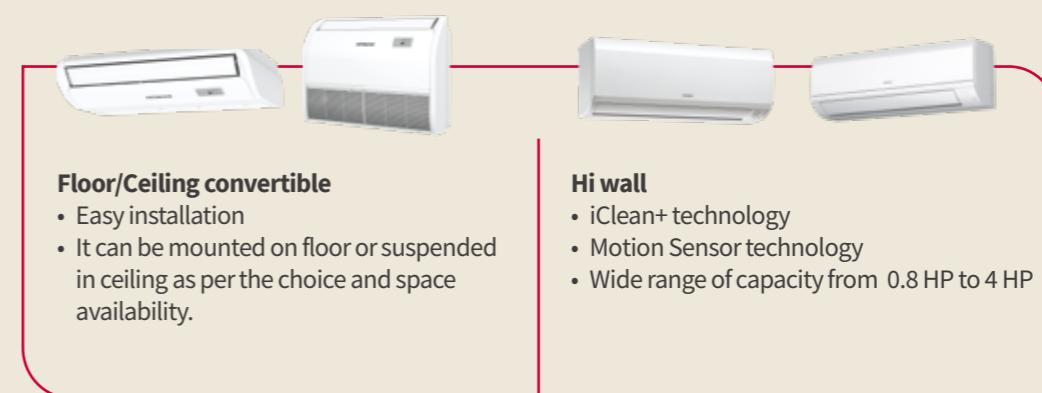
Ceiling Cassette



In-The-Ceiling & Concealed



Exposed



*1 Way Cassette also available in 1.3 HP and 1.6 HP.

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

*In-The-Ceiling (Duct type) high static models are available in 8,10,12,16 & 20 HP.

**Hi Wall unit is available in 1.3 HP.



Silent-Iconic™

4-Way Cassette Design Panel

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



**reddot winner 2021
best of the best**

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



iF Design Award 2020
Award Winning
(Discipline: Product)

Good Design Award
(Category: Equipment and facilities for professional use)

Tomohiko Sato

Hitachi, Ltd. Product Design Department, Senior Designer

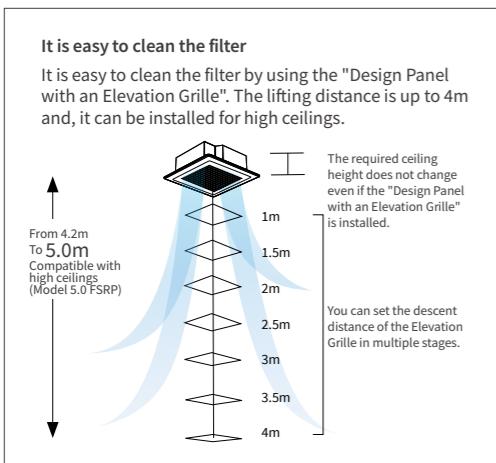
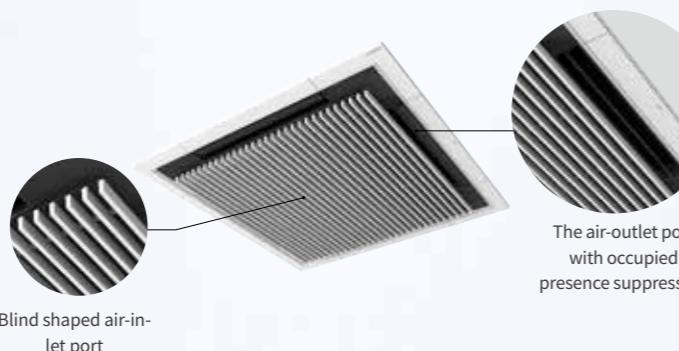


The designer graduated from University in the United Kingdom and soon after, he joined a London based design studio, working across a wide variety of disciplines including furniture, interior and the public realm. Currently, he dedicates himself to air conditioning design, working as a Senior Designer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



The design is well-matched to the space

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



1. Scan the QR code⁷
and open the web page

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



2. Tap the icon

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



3. AR mode is activated

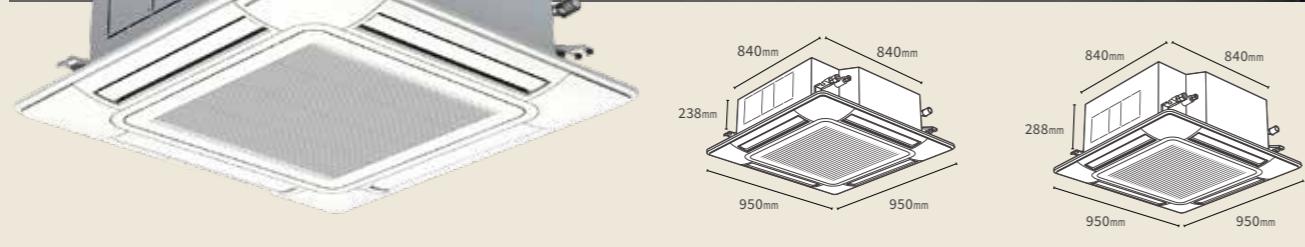
Hold out the camera toward the ceiling and get it to detect the environment by moving it in a circular motion. You may not be able to scan a single-colored ceiling so scan a place where objects such as downlights or ceiling ventilation fans are installed.



4. Adjustment of placement location

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

4 way cassette

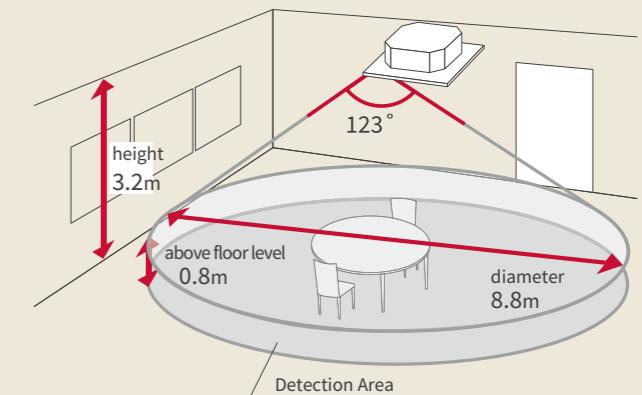


Motion Sensor technology

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

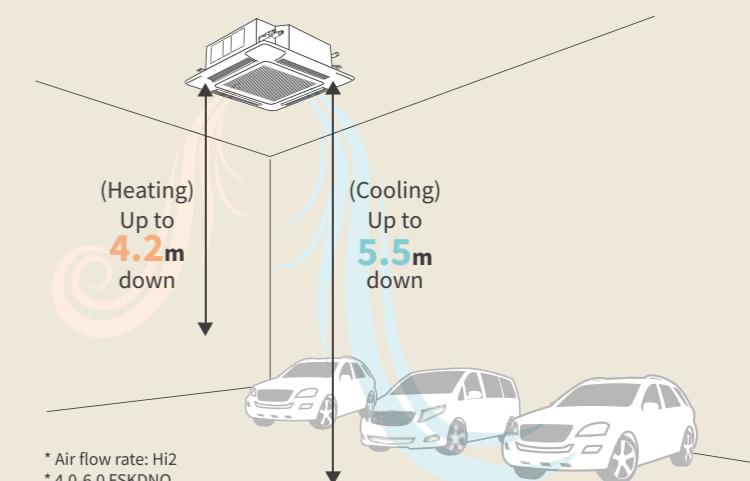
Have control of the airflow with 4 way individual louver. It's louver can be adjusted as per the requirement in each zone and the wastage of air to a dead zone can also be avoided.



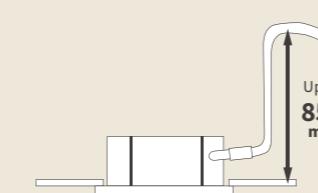
* This feature is compatible with wired remote controller (PC-ARF/ PC-ARF1/ HCWA10NEGQ)

Engineered for high ceiling space

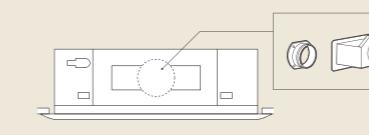
Hitachi's Cassette AC are engineered to place at higher ceiling space such as car showroom space, banquets, and more.



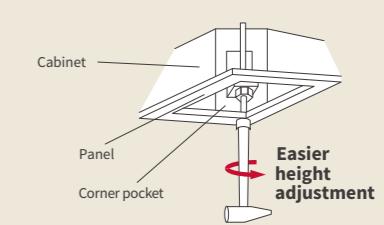
Standard drain pump with 850 mm lift



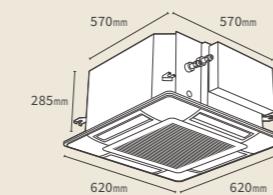
Direct attachment of round-ducts available



Easy fine-tune for installment height

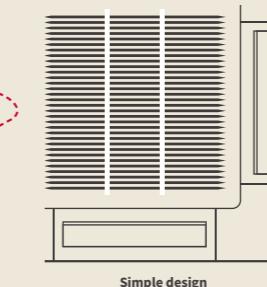
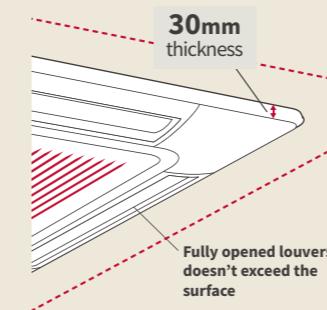


4 way compact cassette



1.0~2.5 HP

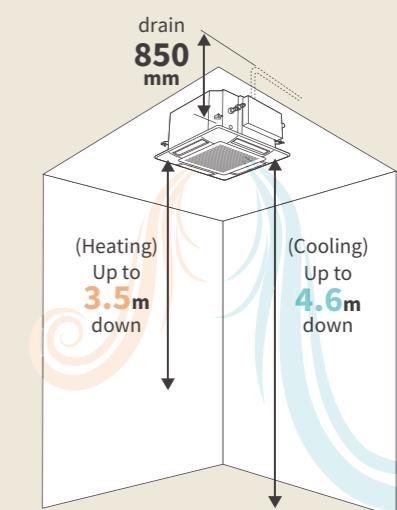
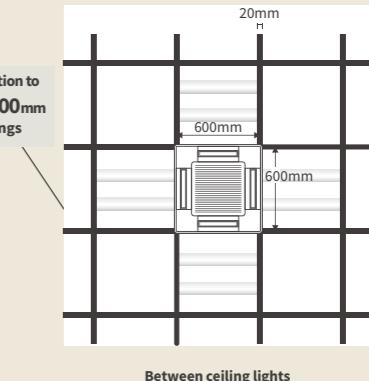
Stylishly modern



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.

Compact design



* Air flow rate: Hi2
* 2.0-2.5 FSRE

Antibacterial drain pan

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



Silent operation

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

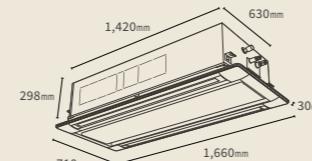
*Air flow rate: Low

20dB(A) CLOCK
30dB(A) MIDNIGHT
40dB(A) LIBRARY

2 way cassette



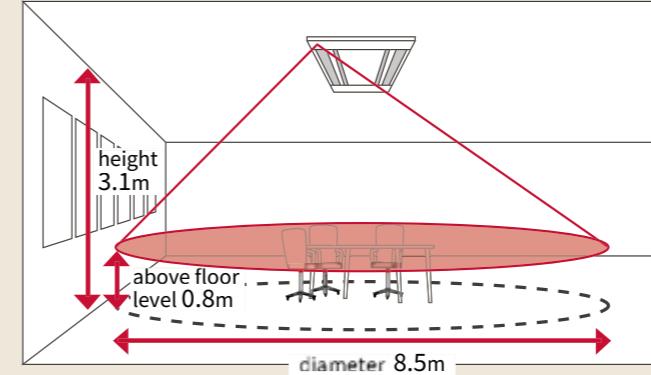
0.8~3.0 HP



4.0~6.0 HP

Motion Sensor technology

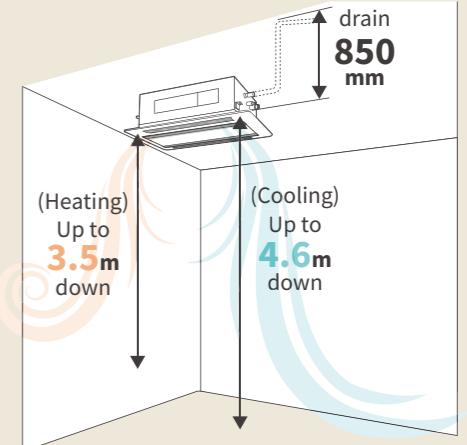
Motion Sensor technology comes with the ability to ensure you get equal attention for equal cooling comfort and enjoy higher energy savings. It identifies the number of people and directs airflow as per the requirement. In case of human absence, the sensor automatically switches the AC off, reducing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



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

Engineered for high ceiling space

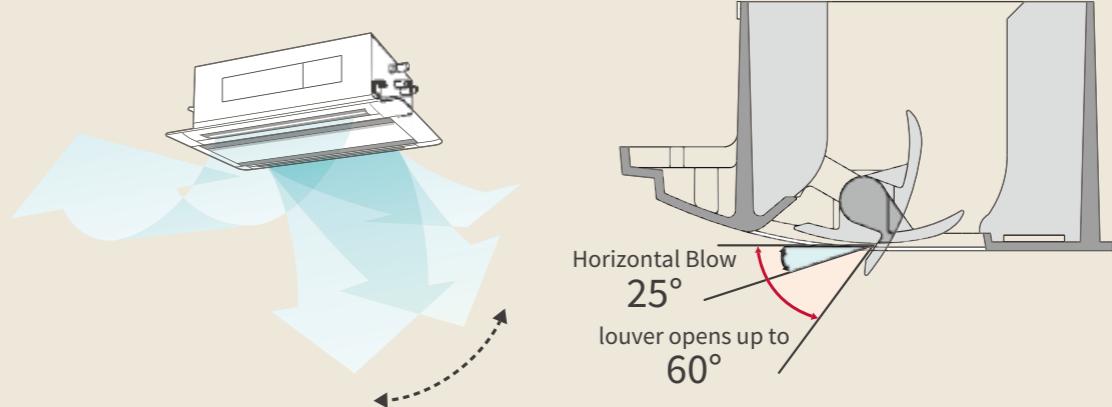
Hitachi's 2 Way Cassette AC is engineered to place at higher ceiling space such as car showroom space, banquets, and more. It comes with standard drain pump with 850mm lift.



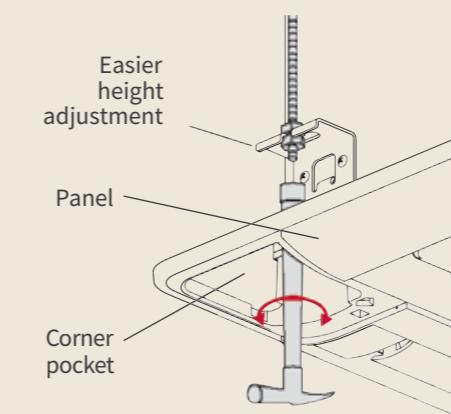
* Air flow rate: Hi2
* 2.0-6.0 FSN3

Individual louver control

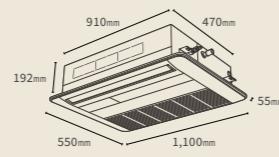
Have control of the airflow with Individual louver. Its louver can be adjusted as per the requirement in each zone and the wastage of air to a dead zone can also be avoided.



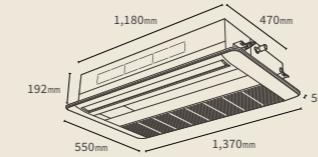
Easy fine-tune for installment height



1 way cassette



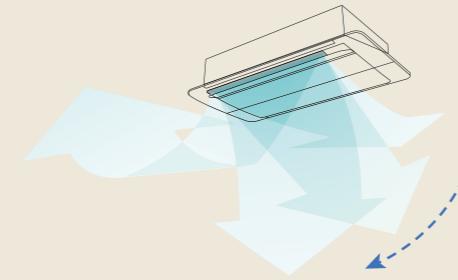
1.0~1.6 HP



2.0~2.5 HP

3D air flow

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

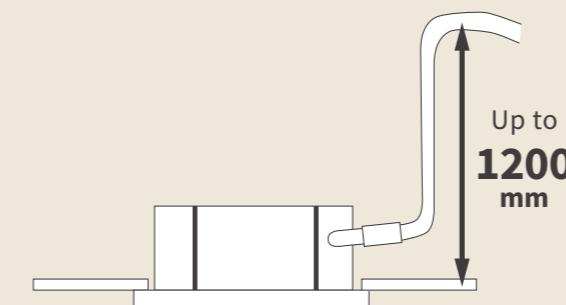


Sleek and compact design



Standard drain pump

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



Silent operation

IDU capacity HP(Class)	1	1.3	1.6	2	2.5
Sound pressure level (dB(A))	27	28	30	31	32
*Air flow rate: Low					
20dB(A) CLOCK		30dB(A) MIDNIGHT		40dB(A) LIBRARY	

Adjustable air speed

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

Fresh air provision (Optional)

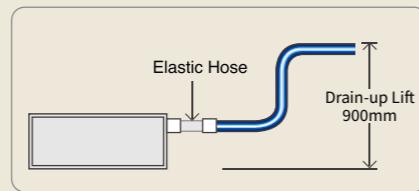
The unit can introduce fresh air from the external environment. With the filter facility, the air quality is guaranteed.

In-the-ceiling



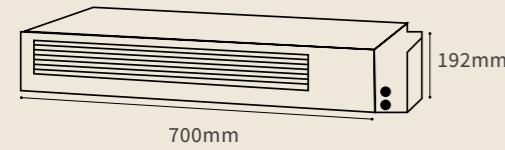
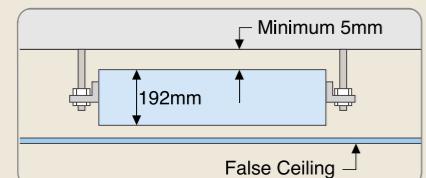
Drain-up mechanism as standard part

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



Space saving installation

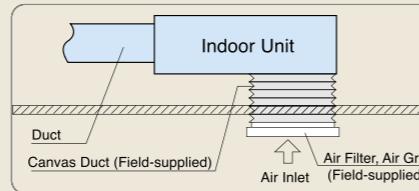
192mm in height, low height residential ceilings pose no problem in installation. Low width starting of 700mm makes this model suitable for installation in limited spaces in hotels.



*For 1 HP model

Designed for customised installations

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



(Installation Diagram of Air Bottom Inlet)

In-the-ceiling (Duct type)



Broad range of external static pressure

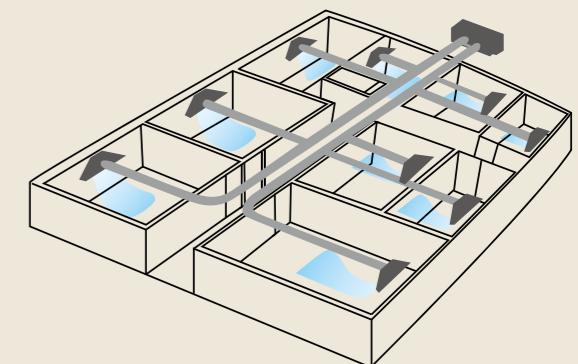
At 20-50 Pa, installation options comes in both long duct and short duct variants.

Flexibility in installation

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

Connect multiple rooms

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

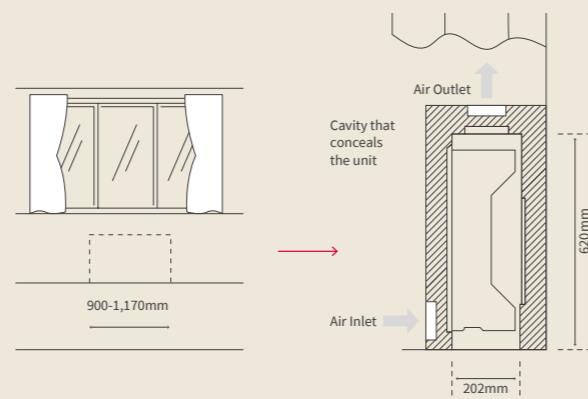


Floor concealed



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

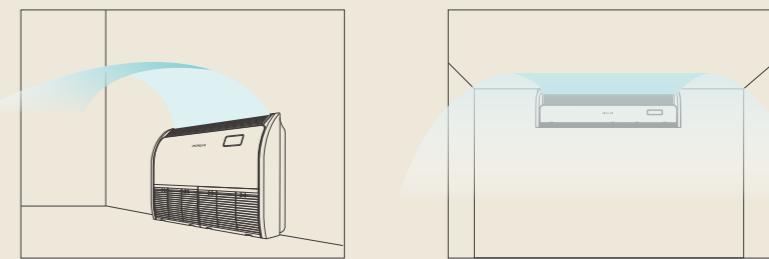


Floor/Ceiling convertible



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

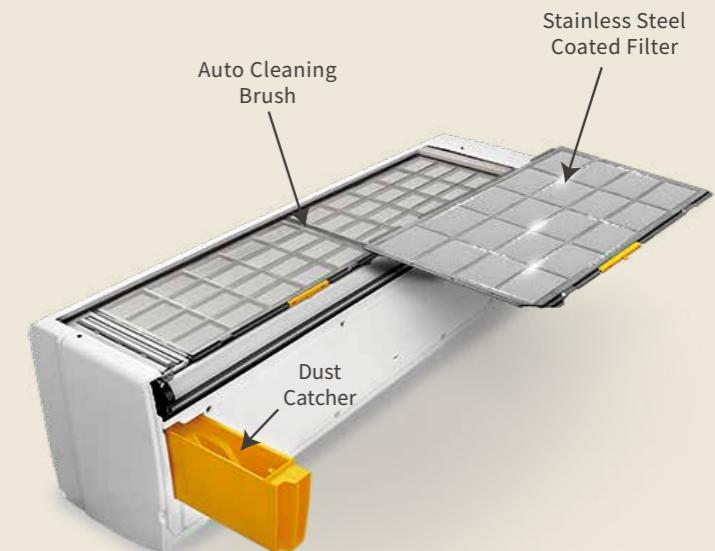


Hi wall



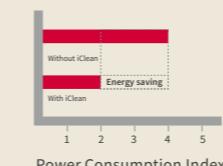
iClean⁺ technology

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.



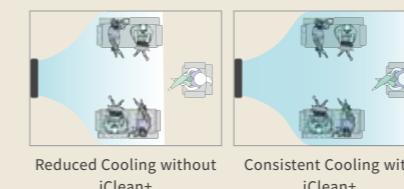
Benefits

Ever efficient



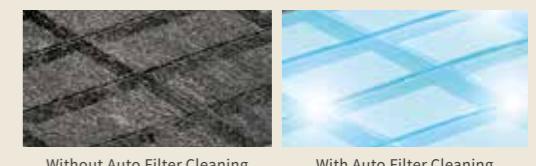
*Available in Hi-Wall iClean⁺ unit only

Ever powerful



Ever clean

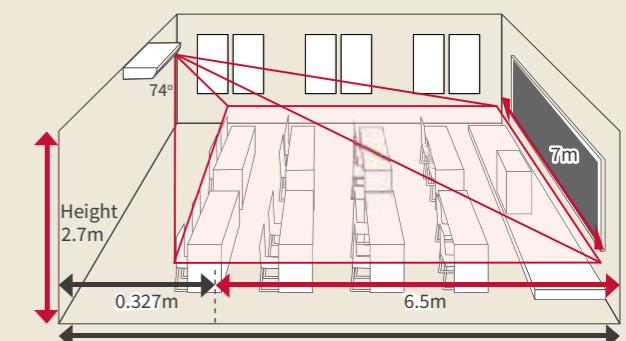
Dust on filter after a few days



Motion Sensor technology

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

Motion Sensor Technology
to achieve better energy saving



Specifications

4 way cassette

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

1 way cassette

Model	RCIS-1.0FSKDNQ	RCIS-1.3FSKDNQ	RCIS-1.6FSKDNQ	RCIS-2.0FSKDNQ	RCIS-2.5FSKDNQ				
Indoor Unit Power Supply									
Nominal Cooling Capacity*1	KW	2.8	3.6	4.5	5.6	7.1			
Nominal Heating Capacity*2	KW	3.2	4.0	5.0	6.3	8.0			
Sound Pressure Level*3 (Hi2/Hi/Me/Lo/Slo/Silent)	dB (A)	32/31/30/29/28/27	37/35/34/32/30/28	41/37/34/33/31/30	40/38/35/33/32/31	46/42/40/37/34/32			
Outer Dimensions	Height	mm	192	192	192	192			
Width	mm	910	910	910	1180	1180			
Depth	mm	470	470	470	470	470			
Net Weight	Kg	19	20	20	24	24			
Refrigerant					R410A				
Indoor Fan	Air Flow Rate (Hi2/Hi/Me/Lo/Slo/Silent)	m³/min.	6.6/6.2/5.6/5.1/4.8/4.6	8.3/7.3/6.8/6.2/5.6/5.1	10/8.3/6.8/6.3/5.7/5.2	12.1/9.9/8.8/8.2/7.8/6.6	15.6/12.6/11.2/9.9/8.4/7.1		
		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-Nut Connection (with Flare Nuts)				
Refrigerant Piping	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53		
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88		
	Condensate Drain				VP25				
Decoration Panel					Included	Included			
Color					Neutral White	Neutral White			
Outer Dimensions (H X W X D)	mm				55 X 1100 X 550	55 X 1370 X 550			
Net Weight	Kg				5.0	6.0			

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

4 way compact cassette

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

2 way cassette

Model	RCD-0.8FSR	RCD-1.0FSR	RCD-1.5FSR	RCD-2.0FSR	RCD-2.5FSR	RCD-3.0FSR	RCD-4.0FSR	RCD-5.0FSR	RCD-6.0FSR	
Indoor Unit Power Supply										
Nominal Cooling Capacity*1	KW	2.2	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
Nominal Heating Capacity*2	KW	2.5	3.2	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressure Level*3 (Hi2/Hi/Me/Lo)	dB(A)	30/29/28/27	31/29/28/27	37/34/31/30	39/36/33/30	42/39/36/33	45/42/38/33	43/40/37/34	47/44/41/35	48/45/42/39
Outer Dimensions	Height	mm	298	298	298	298	298	298	298	298
Width	mm	860	860	860	860	860	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					
Indoor Fan	Air Flow Rate (Hi2/Hi/Me/Lo)	m³/min.	10/9/7.5/6.5	11/9.5/8.5/7	15/13/11.5/10	16.5/14.5/ 12.5/10.5	18.5/16.5/ 14.5/12.5	21/18.5/ 16/12.5	30/26.5/23/20	35/31/27/21 37/32.5/ 28.5/24
		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/ 812/7	

Floor/Ceiling convertible

Model	RPFC-2.0FSNQ	RPFC-2.5FSNQ	RPFC-3.0FSNQ	RPFC-4.0FSNQ	RPFC-5.0FSNQ
Indoor Unit Power Supply					
Nominal Cooling Capacity*1	KW	5.6	7.1	8.4	11.2
Nominal Heating Capacity*2	KW	6.5	8.5	9.6	13.0
Sound Pressure Level*4 (Hi/Me/Lo)	dB(A)	Ceiling 39/35/30	Floor 43/38/35	45/41/37 43/39/34	51/46/40 50/46/42
Height	mm	230	230	230	230
Outer Dimensions	Width	mm	990	990	1,285
Depth	mm	680	680	680	680
Net Weight	kg	31	32	39	41
Refrigerant				R410A	
Indoor Fan	Air Flow Rate (Hi/Me/Lo)	m³/min cfm	13/11/9 459/388/318	16.1/14/11.3 568/494/399	18.2/15.2/12.2 643/537/431
Motor Output	W	40	70	70	130
Connections				Flare-Nut Connection (with Flare Nuts)	
Refrigerant Piping	Liquid Line	mm	Φ6.35	Φ9.53	Φ9.53
	Gas Line	mm	Φ15.88	Φ15.88	Φ15.88
	Condensate Drain			VP25	

Hi wall

Model	RPK-0.8FSNK2	RPK-1.0FSNK2	RPK-1.3FSNK2	RPK-1.5FSNK2	RPK-2.0FSNK2	RPK-2.5FSNK2	RPK-1.5FSNK1	RPK-2.0FSNK1	RPK-2.5FSNK1	RPK-3.0FSRM	RPK-4.0FSRM	
Indoor Unit Power Supply												
Nominal Cooling Capacity*1	KW	2.2	2.8	3.6	4.0	5.6	7.1	4.0	5.6	7.1	8.0	
Nominal Heating Capacity*2	KW	2.6	3.2	4.2	4.8	6.3	8.5	4.8	6.3	8.5	9.0	
Sound Pressure Level*3 (Hi2/Hi/Me/Lo/Slo)	dB (A)	40/38/ 36/34/32	43/40/ 37/35/33	45/40/ 37/35/33	45/40/ 42/39/35	48/45/ 43/40/36	49/46/ 39/37/35	45/42/ 42/39/35	48/45/ 43/40/36	49/46/ 40/35	47/44/ 44/39	51/48/
Height	mm	295	295	295	295	295	295	295	295	300	300	
Outer Dimensions	Width	mm	798	798	798	997	997	997	997	1100	1100	
Depth	mm	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	15.0	15.0	
Refrigerant					R410A							
Indoor Fan	Air Flow Rate (Hi2/Hi/Me/Lo/Slo)	m³/min cfm	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/ 10	16.6/15/ 13.5/11.5/ 11.4	19/17.2/ 15.4/13.1/ 10	15/13.5/ 11.5/10.7/ 10	16.6/15/ 13.5/11.5/ 11.4	19/17.2/ 15.4/13.1/ 12.5	20/17.5/ 17.5/ 14.5
Motor Output	W	18	18	18	18	30	30	30	30	38	38	
Connections				Flare-Nut Connection (with Flare Nuts)								
Refrigerant Piping	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ6.35	Φ9.52	Φ9.52	Φ9.52	
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ12.7	Φ15.88	Φ15.88	
iClean Function		No	No	No	No	No	Yes	Yes	Yes	No	No	

Notes for RPFC-FSNQ, RPIZ-HNATNQ, RPK-FSNK2/FSNK1/FSRM & RPIL-FSNK/FSNK3:

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				
Nominal Cooling Capacity*1	KW	2.8	4.0	5.6
Nominal Heating Capacity*2	KW	3.2	4.5	6.3
Sound Pressure Level*3 *5 (Hi/Me/Lo)		30/23/20	32.5/26/23	34/26/25
Height	mm	192	192	192
Outer Dimensions	Width	mm	700	910
Depth	mm	447	447	447
Net Weight	Kg	17.0	20.0	25.0
Refrigerant			R410A	
Indoor Fan	Air Flow Rate (Hi/Me/Lo)	m³/min cfm	9.5/6.5/5.5 335/230/194	10/7/6 353/247/212
External Static Pressure*6	Pa	10(30)	10(30)	10(30)
Motor Output	W	28	28	45
Connections			Flare-Nut Connection (with Flare Nuts)	
Refrigerant Piping	Liquid Line	mm	Φ6.35	Φ6.35
	Gas Line	mm	Φ12.7	Φ15.88

In-the-ceiling

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

Notes for RPFC-FSNQ, RPIZ-HNATNQ, RPK-FSNK2/FSNK1/FSRM & 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	RPI18.0FSNK1	RPI10FSNK1	RPIH12FSNK	RPI16FSNK	RPI20FSNK	RPI16FSNK1	RPI20FSNK1	
Indoor Unit Power Supply								
AC 1Φ, 230V / 50 Hz								
Nominal Cooling Capacity	KW	22.4	28.0	33.5	45.0	56.0	45.0	56.0
Nominal Heating Capacity	KW	25.0	31.5	37.5	50.0	63.0	50.0	63.0
Sound Pressure Level (Hi/ Me/Lo)	dB (A)	62/59/57	64/61/59	65/62/60	66/63/60	68/65/62	68.0	72.0
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)
	Depth	mm	675	675	675	1085	1085	800(V)/1615(H)
Net Weight	Kg	81.0	81.0	83.0	191.0	194.0	250.0	253.0
Refrigerant								
R410A								
Indoor Fan	Air Flow Rate (Hi/Me/Lo)	m³/min	85/77.6/70	96/87.5/80	105/96/88	150/142/135	170/162/154	166
		cfm	3000/2740/2480	3400/3100/2810	3700/3390/3100	5300/5010/4760	6000/5720/5440	5860
External Static Pressure								
Motor Output	Pa	78	78	78	100	100	150	150
Connections								
BRAZING CONNECTION								
Refrigerant Piping	Liquid Line	mm	Φ 9.52	Φ 9.52	Φ 12.7	Φ 12.7	Φ 15.88	Φ 15.88
	Gas Line	mm	Φ 19.05	Φ 22.22	Φ 25.4	Φ 28.58	Φ 28.58	Φ 28.58

Floor concealed

Model	RPF1-1.0FSNQ	RPF1-1.5FSNQ	RPF1-2.0FSNQ	RPF1-2.5FSNQ				
Indoor Unit Power Supply								
AC 1Φ, 230 V / 50 Hz								
Nominal Cooling Capacity*1	KW	2.8	4.3	5.6	7.1			
Nominal Heating Capacity*2	KW	3.3	4.9	6.5	8.5			
Sound Pressure Level*3 (Hi/ Me/ Lo)	dB (A)	37/34/31	40/38/35	42/38/36	45/43/40			
Height	mm	620	620	620	620			
Outer Dimensions	Width	mm	900	900	1170			
	Depth	mm	202	202	202			
Net Weight	Kg	25	26	34	34			
Refrigerant								
R410A								
Indoor Fan	Air Flow Rate Hi/Me/Lo	m³/min	8.0/7.0/6.0	10/8.0/7.0	14.5/12.5/10.5	16/14/12		
		cfm	282/247/212	353/282/247	512/441/371	565/494/424		
Motor Output	W	20	35	40	50			
Connection								
Flare-Nut Connection (with Flare Nuts)								
Refrigerant Piping	Liquid Line	mm	Φ 6.35	Φ 6.35	Φ 6.35	Φ 9.53		
	Gas Line	mm	Φ 12.7	Φ 12.7	Φ 15.88	Φ 15.88		
Condensate Drain								
VP 25								

Notes for RPF1-FSNQ:

*1 & *2. The cooling and heating capacities shown in the table are based on following conditions:

Cooling Operation Conditions: Indoor Air Inlet Temperature: 27°C DB, 19°C WB. Outdoor Air Inlet Temperature: 35°C DB.

Heating Operation Conditions: Indoor Air Inlet Temperature: 20°C DB. Outdoor Air Inlet Temperature: 7°C DB, 6°C WB.

Piping Length: 7.5 meters. Piping Lift: 0 meter.

*3. The sound pressure level is based on following conditions:

1.5 meters from the unit and 1.5 meters from floor level. The data's mentioned in the table was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Silent-Iconic™

Model	RCI-1.0FSRP	RCI-1.5FSRP	RCI-2.0FSRP	RCI-2.5FSRP	RCI-3.0FSRP	RCI-4.0FSRP	RCI-5.0FSRP	RCI-6.0FSRP
Indoor Unit Power Supply								
AC 1Φ, 220-240V / 50 Hz								
Nominal Cooling Capacity	KW	2.8	4.0	5.6	7.1	8.0	11.2	14.0
Nominal Heating Capacity	KW	3.2	4.8	6.3	8.5	9.0	12.5	16.0
Sound Pressure Level (Hi2/Hi/Me/Lo)	dB (A)	33/30/28/27	35/31/30/27	37/32/30/28	43/37/33/29	41/36/32/30	49/44/39/33	49/46/41/35
Height	mm	248	248	248	248	298	298	298
Outer Dimensions	Width	mm	840	840	840	840	840	840
	Depth	mm	840	840	840	840	840	840
Net Weight	Kg	20	21	21	22	26	26	26
Refrigerant								
R410A								
Indoor Fan	Air Flow Rate (Hi2/Hi/Me/Lo)	m³/min	15/13/11/9	20/16/14/11	22/17/14/12	27/21/18/14	27/23/18/15	36/31/24/20
		cfm	530/459/388/318	706/565/494/388	777/600/494/424	953/741/635/529	953/812/847/706	1271/1095/918/741
Refrigerant Piping	Liquid Line	mm	Φ 6.35	Φ 6.35	Φ 6.35	Φ 9.52	Φ 9.52	Φ 9.52
	Gas Line	mm	Φ 12.7	Φ 12.7	Φ 12.7	Φ 15.88	Φ 15.88	Φ 15.88
Condensate Drain								
VP 25								
Cassette Air Panel (Silent Iconic Type)								
P-GP160NAPU (Optional Item)								
Panel Dimensions (H X W X D)								
52 x 950 x 950								
Panel Net Weight								
10								
Compatible Wired Remote Controller								
PC-ARGF 1-A (Optional Item)								

Notes for RCI-FSRP:

The above cooling and heating capacities show the maximum capacities when the outdoor and indoor temperatures are below condition.

Cooling Operation Conditions:

Indoor Air Inlet Temperature: 27°C DB 19°C WB, Outdoor Air Inlet temperature 35°C DB

Heating Operation Conditions:

Indoor Air Inlet Temperature: 20°C DB, Outdoor Air Inlet temperature: 7°C DB 6°C WB

Pipe length: 7.5 meters; Pipe lift: 0 meter

The sound pressure level is based on following conditions

1.5 Meters Beneath the Unit. The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field

* Wireless remote is not compatible..

Ventilation



Improve indoor air quality

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

81 OUR VENTILATION LINE-UP

83 VENTILATION SOLUTIONS

83 All fresh air unit

84 Total heat exchanger

85 DX-KIT



Our ventilation line-up

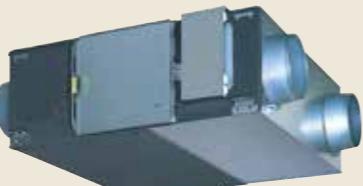
Our line-up fulfils the ventilation requirements of the desired space by drawing in clean air from the outside and replenishing indoor spaces. It features solutions that suit every type of building; you can use the ventilation technology as it is or it can be incorporated into a Hitachi indoor unit via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

ALL FRESH AIR UNIT



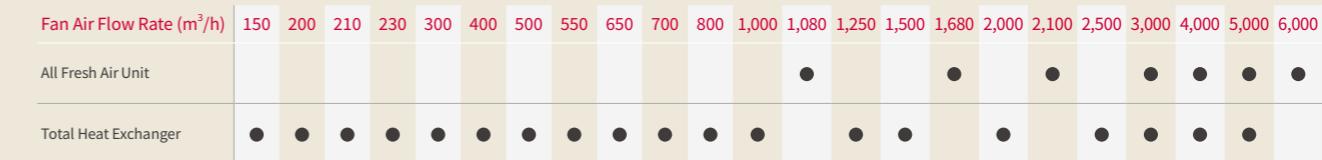
- Creates a comfortable and healthy indoor environment, thanks to the fresh air and heat/cool functions.
- Various controllers can be selected and interfaced with the H-LINK system.
- Longer ducts can be connected on-site, thanks to the higher ESP.

TOTAL HEAT EXCHANGER



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

From 150 to 6,000m³/h



Extra air-renewal solution offerings

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



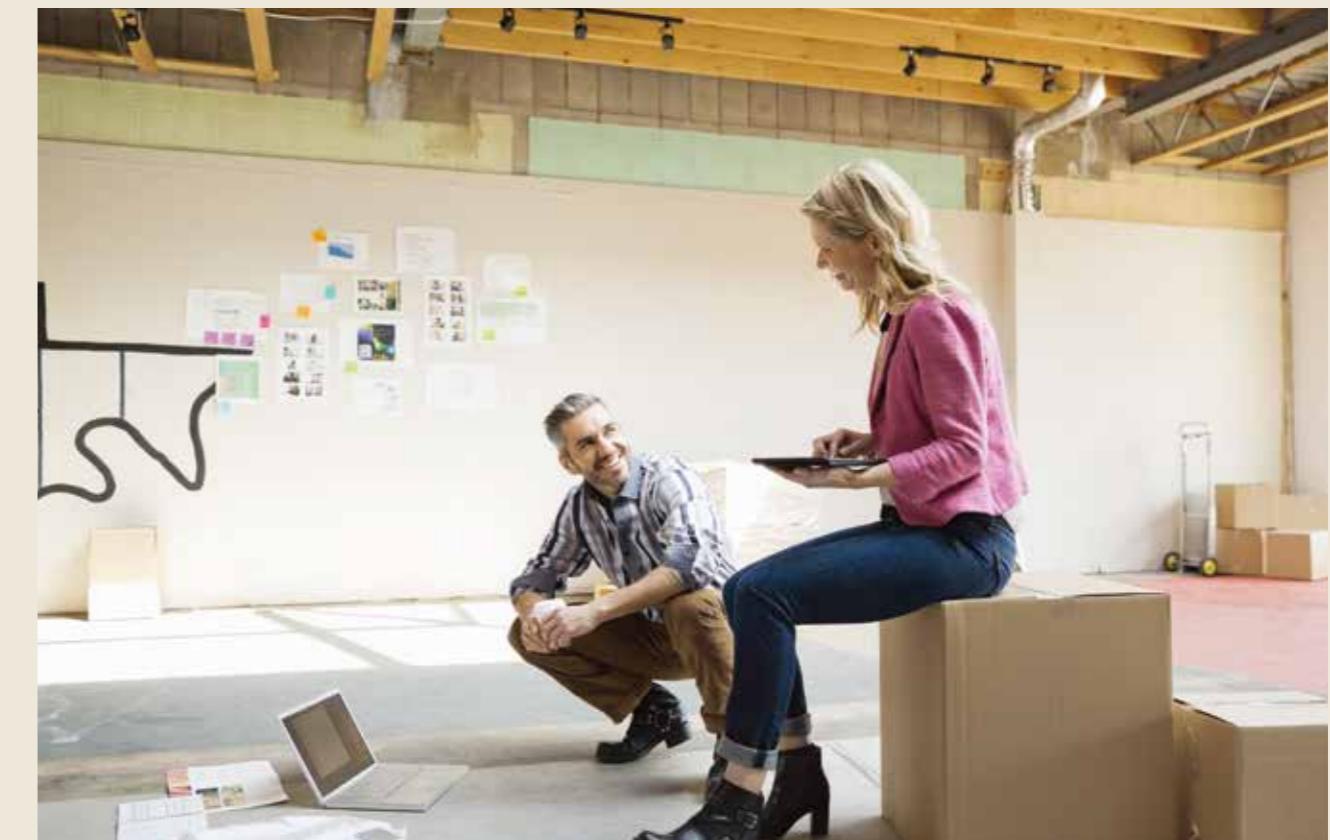
DX-KIT

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

FRESH-AIR INTAKE PORT



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



Ventilation solutions



All fresh air unit

Model	RPI-5.0KFNQ	RPI-8.0KFNQ	RPI-10.0KFNQ	RPI-12.0KFNQ				
Power Supply	AC 1Φ 220-240V/ 50Hz	AC 1Φ 220V/ 60Hz	AC 1Φ 220-240V/ 50Hz	AC 1Φ 220V/ 60Hz	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/ 60Hz		
Connectable Outdoor Unit	Slim Modular VRF SideSmart™ (Heat Pump Type)					RAS-120HNCEL(R)W		
Cooling Capacity	kW 14.0	kW 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
Heating 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	A 1.4	1.61	2.2	2.53	2.3	2.65	1.43	1.64
Sound Pressure Level (overall a scale)	dB(A) 42	42	44	44	47	47	56	56
Dimensions H×W×D	mm 370×1320×800		486×1270×1069		486×1270×1069		486×1270×1069	
Net Weight	kg 63	63	110	110	110	110	110	110
Refrigerant	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Air Flow Rate	m³/min 18	18	28	28	35	35	50	50
External Pressure	Pa 200	200	220	220	220	220	220	220
Piping	Liquid mm Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ12.7	Φ12.7
	Gas mm Φ15.88	Φ15.88	Φ19.05	Φ19.05	Φ22.2	Φ22.2	Φ25.4	Φ25.4
Condensate Drain	VP25, Outer Diameter: Φ32mm							
Temperature range of fresh air drawn	Cooling: 20.0°C~43.0°C, Heating: -7.0°C~15.0°C							
Model	RPI-16.0KFNQL	RPI-16.0KFNQH	RPI-20.0KFNQL	RPI-20.0KFNQH	RPI-20.0KFNQLF	RPI-20.0KFNQHF		
Power Supply	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/ 60Hz	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/ 60Hz	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/ 60Hz	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/ 60Hz
Connectable Outdoor Unit	RAS-160HNCEL(R)W					RAS-200HNCEL(R)WS, RAS-200HNCEL(R)WP, RAS-200HNCEL(R)WS		
Cooling Capacity	kW 45.0	45.0	45.0	45.0	56.0	56.0	56.0	56.0
Cooling Power	kW 0.72	0.83	1.06	1.22	1.06	1.22	1.39	1.6
Nominal Current	A 1.8	2.07	2.2	2.53	2.22	2.55	3.14	3.61
Heating Capacity	kW 36.0	36.0	36.0	36.0	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
Nominal Current	A 1.8	2.07	2.2	2.53	2.22	2.55	3.14	3.61
Sound Pressure Level (overall a scale)	dB(A) 58	58	62	62	61	61	65	65
Dimensions H×W×D	mm 635×1950×805		635×1950×805		735×1950×805		735×1950×805	
Net Weight	kg 196	196	196	196	222	222	222	222
Refrigerant	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Air Flow Rate	m³/min 67	67	67	67	83	83	100	100
External Pressure	Pa 200	200	300	300	200	200	200	200
Piping	Liquid mm Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88
	Gas mm Φ25.4	Φ25.4	Φ25.4	Φ25.4	Φ28.6	Φ28.6	Φ28.6	Φ28.6
Condensate Drain	RC1 (Internal Screw)							
Temperature range of fresh air drawn	Cooling: 20.0°C~43.0°C, Heating: -7.0°C~15.0°C							

Notes:

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).

2. 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 restraints shown on Table below for indoor unit capacity connectable to outdoor unit.

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

Mixed system is only available with RPI-5.0/8.0/10.0KFNQ.

RPI-12.0KFNQ or above is only available as one to one All Fresh Air Unit system.

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

Total heat exchanger

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

Note:

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

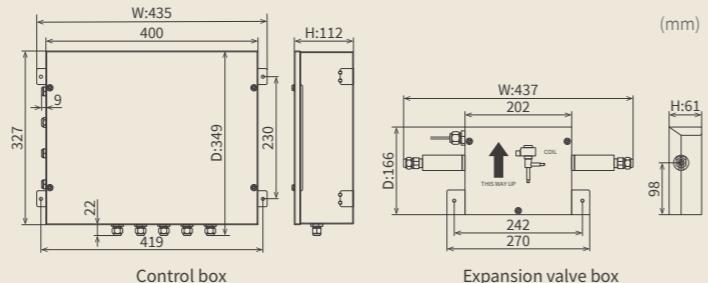


DX-Kit

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



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
Control Box (C Box)	Power Supply			AC1Φ, [220-240V /50Hz] [220V 60Hz]			
	Height	mm	112	112	112	112	
	Width	mm	435	435	435	435	
	Depth	mm	349	349	349	349	
	Weight	kg	5.2	5.2	5.2	5.2	
	Material		Steel Plate + White Grey Coating				
Expansion Valve Box (EXV Box)	Height	mm	61	61	61	61	
	Width	mm	437	437	437	437	
	Depth	mm	166	166	166	166	
	Weight	kg	1.7	1.7	1.7	1.7	
	Quantity		1	1	1	2	
	Material		Steel Plate + White Grey Coating				
AHU Suction Temperature Range	Liquid Pipe Diameter	φ6.35	φ9.52	φ9.52	φ9.52	φ12.7	
Cooling		21.0°C to 32.0°C (DB) / 15.0°C to 23.0°C (WB)					
Heating		15.0°C to 27.0°C (DB)					
Connection Ratio in different configurations → Total AHU or AHU & IDU Connection Ratio against ODU capacity = X (In case of "Inlet Air Temperature Control")		<ul style="list-style-type: none"> • 1 ODU to 1 AHU : 50% < X ≤ 100% • 1 ODU to 1 AHU (Separate Heat Exchanger Type) : 50% < X ≤ 100% • 1 ODU to AHU & IDUs : 					
Maximum Piping Length	Total	m	<ul style="list-style-type: none"> (1) 50% < X ≤ 100% → Total AHU capacity: No limitation / Each AHU capacity: No limitation (2) 100% < X ≤ 110% → Total AHU capacity: less than 30% of total capacity / Each AHU capacity: between 2-6HP class 				
	Between AHU Heat Exchanger and EXV Box	m	5	5	5	5	
Maximum Level Difference	Between ODU and [AHU/IDU]	m	<ul style="list-style-type: none"> • 50 (When ODU is above [AHU & IDU & DX-Kit]) • 40 (When ODU is below [AHU & IDU & DX-Kit]) 				
	Between AHU Heat Exchanger and EXV Box	m	2	2	2	2	
Maximum Length	Control wiring between AHU Heat Exchanger and EXV Box	m	10	10	10	10	
	Thermistor to AHU Heat Exchanger from C Box	m	10	10	10	10	
Temperature Control Modes (*1)		<ul style="list-style-type: none"> • Inlet Air Temperature Control • Outlet Air Temperature Control • Duty Control 					

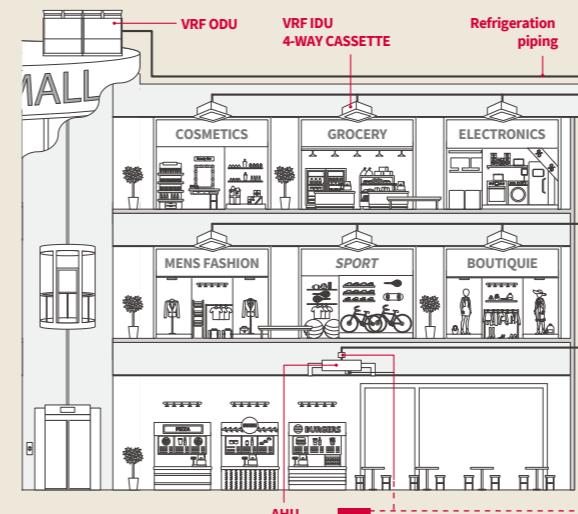
(*1) [Outlet Air Temperature Control] & [Duty Control] are available only in case of connections "1 ODU to 1 AHU" & "1 ODU to 1 AHU(Separate Heat Exchanger Type)".

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

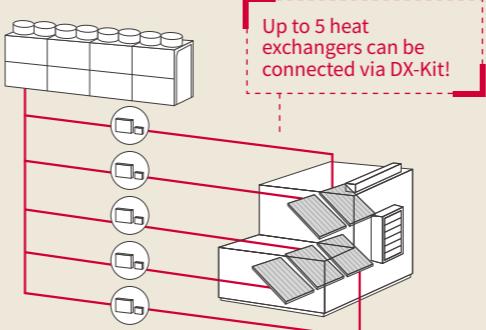
Our DX-Kit can cover from small to large capacity AHU.
It can meet any requirement in any application!



③ 4 examples of configuration:

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

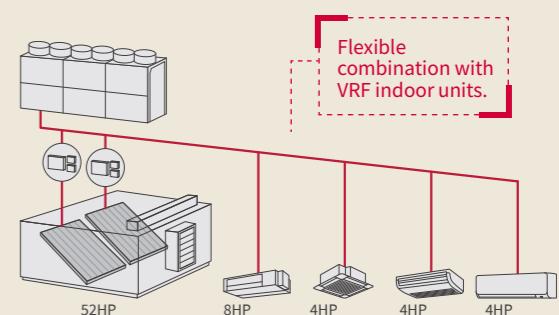
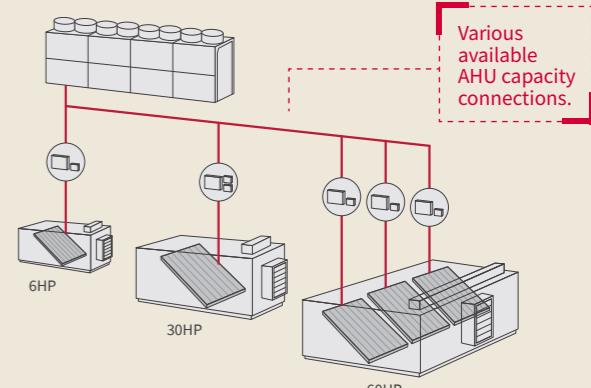
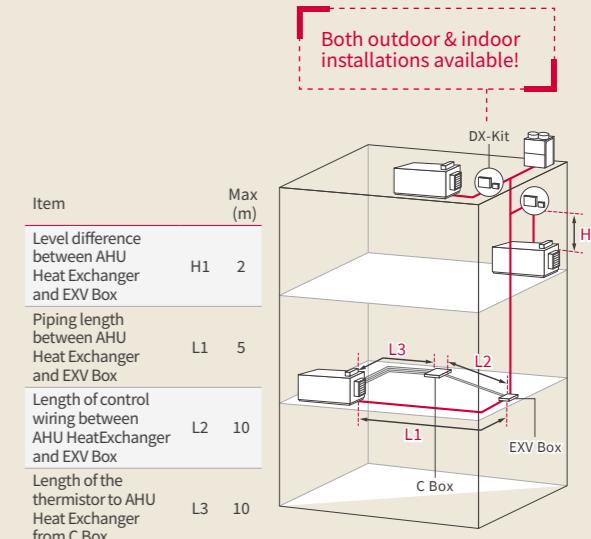
[Example]



② Flexible installation:

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

DX-Kit facilitates system design!



Controllers



New generation: simple and smart!

Everyone deserves comfort, but comfort does not mean the same to everyone. That's why control is key.

Our controllers offer best-in-class simplicity. Using our praised central stations, building managers can instantly optimize air conditioning in targeted zones. For occupants, our new advanced color controller provides intuitive navigation with a premium design.

With airCloud Pro, our exclusive new-generation solution, users can manage from one indoor unit to several systems remotely via IoT (web/smartphone).

89 CENTRALIZED CONTROLLERS

90 Line up overview

91 airCloud Pro

93 Central Station EX

94 Central Station EZ

94 Central Station mini

95 INDIVIDUAL 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-LINK: ENJOY MORE FREEDOM



Centralized controllers

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

airCloud pro* (HC-IoTGW)

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

Central station EX (PSC-A128EX3)

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

Central station EZ (PSC-A64GT)

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

Central station mini (PSC-A32MN)

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

*airCloud Pro available with SideSmart™ from May 2021.

Small to large systems & fixed or cloud-based



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

* airCloud Pro available with SideSmart™ from May 2021.

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

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

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

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

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

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

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

(*8) Visualization of outdoor unit energy consumption.

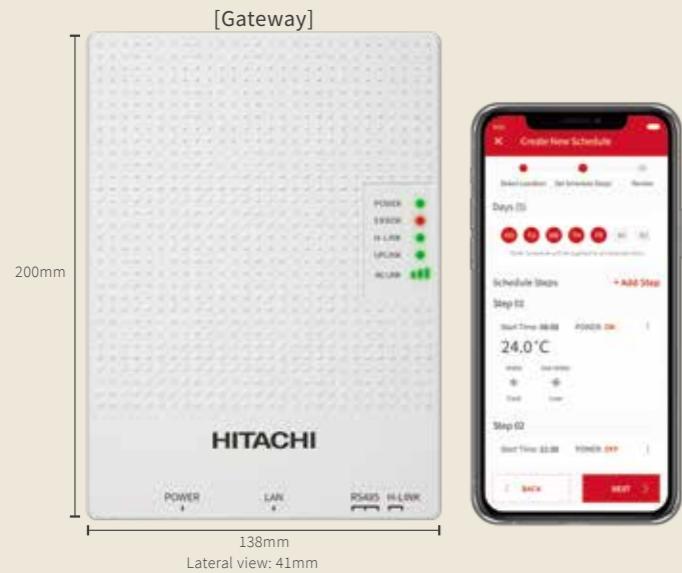
(*9) 4G available through optional 4G module; 4G module package comes with global SIM and pre-paid global data plan.

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

(*11) Mini , EZ : Accumulated operation time (min) , Accumulated thermo - ON 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*



Functions

IoT connection (cloud-based)	<ul style="list-style-type: none">Access via smartphone app or webUnlimited number of gatewaysUnlimited number of locationsUnlimited number of users
Operation unit	<ul style="list-style-type: none">Per entire locationPer systemPer zone (unlimited zone creation)Per indoor unit remote control group
Control function	<ul style="list-style-type: none">On/Off • Mode • Set temperatureFan speed • Louver • RC lockFilter sign reset

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

System configuration.



Is airCloud Pro for me?

All VRF users can enjoy these benefits!

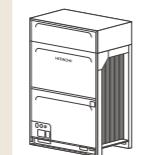
- Save energy
- Save time and unnecessary transportation
- Delegate VRF systems administration
- Create a comfortable climate for guests

Recommended facilities (examples.)



Future-proof

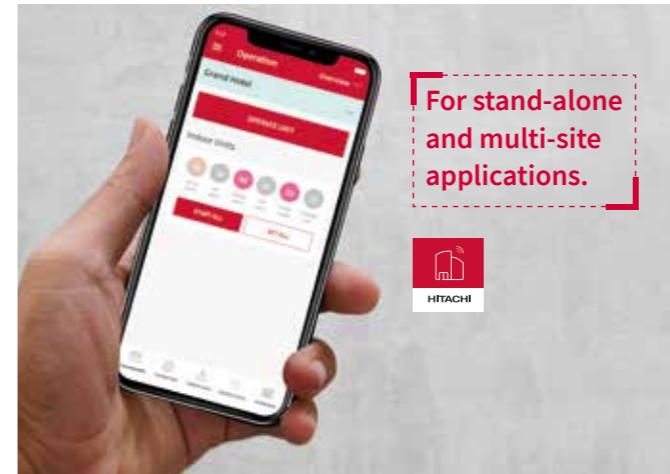
With updates and new features added regularly, airCloud Pro ensures you are always up to date.



- Compatible with new and former Hitachi Variable Refrigerant Flow systems¹

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.

thumb-up 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 alerts² In the event of a critical malfunction.
- Flexible user management² Add users and custom access restrictions.

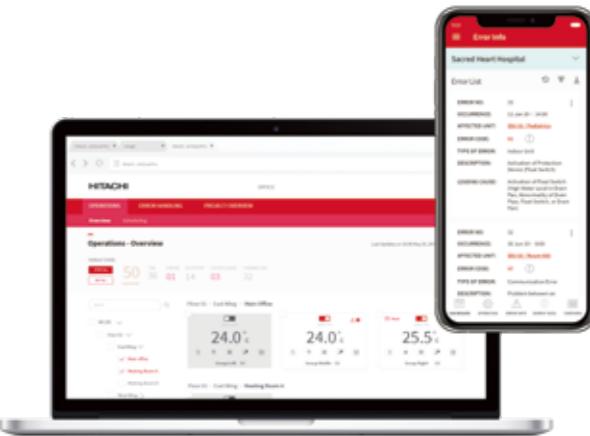
heart Create better comfort

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

An integrated weather forecast² display helps you determine the most suitable conditions for your indoor spaces all year round.

key Easy plug-and-play

Our airCloud gateway makes installation a breeze.



+ data security

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

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

*airCloud Pro available with SideSmart™ from May 2021.

¹ Confirm compatibility of your VRF installation with your Hitachi Cooling & Heating representative.

² Functions not available as of September 2019, coming soon.

³ 4G module available as a side accessory.

Centralized controllers

Central station EX for large-scale buildings

(PSC-A128EX3)



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

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

Capacity

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

Extension adapter



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

Energy calculation software*



PSC-AS01EXC

Specifications

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

Central station EZ for medium-scale buildings

(PSC-A64GT)



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

Capacity

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

Specifications

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

Functions

Monitor Function	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Run/Stop* Fan Speed Operation Mode Louver Temperature Setting RC Operation Prohibited Filter Sign Reset

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

Functions

Operation unit	All together
	Each area
	Each block
	Each group
	Each indoor unit
Control function	On/Off
	Mode
	Set temperature
	Fan speed
	Louver
	RC prohibition
	Filter sign reset
Monitor function	Function selection for indoor units (*1)
	Function selection for outdoor units (*2)
	Capacity control for outdoor units (*2)
	Lower noise control for outdoor units (*2)
Management report visualization	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
History	Filter sign/Auto cleaning fault
	Alarm status/Alarm codes
	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 indoor unit
	• Average air intake temperature of outdoor unit
	• Average setting temperature
	• Average RC sensor temperature
	(*1) Some indoor units may not fully support all functions. (*2) Available for applicable outdoor units only. (*3) Whether this is shown on the screen depends on the remote controller settings.

Central station mini for small-scale buildings

(PSC-A32MN)



With easy control via an 8.5-inch color touch panel, its detailed control functionalities such as weekly scheduling, operation hours tracking, help you save energy. Up to 32 remote-controlled groups and up to 160 indoor units can be connected to the Central Station mini.

Capacity

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

Specifications

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

Remote access.

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

Example: school



Functions

Monitor Function	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Run/Stop* Fan Speed Operation Mode Louver Temperature Setting RC Operation Prohibited Filter Reset Signal

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

Individual controllers



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

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

Wired remote controller (HCWA10NEGQ)

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

Advanced wireless remote controller (PC-AWR)

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

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

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

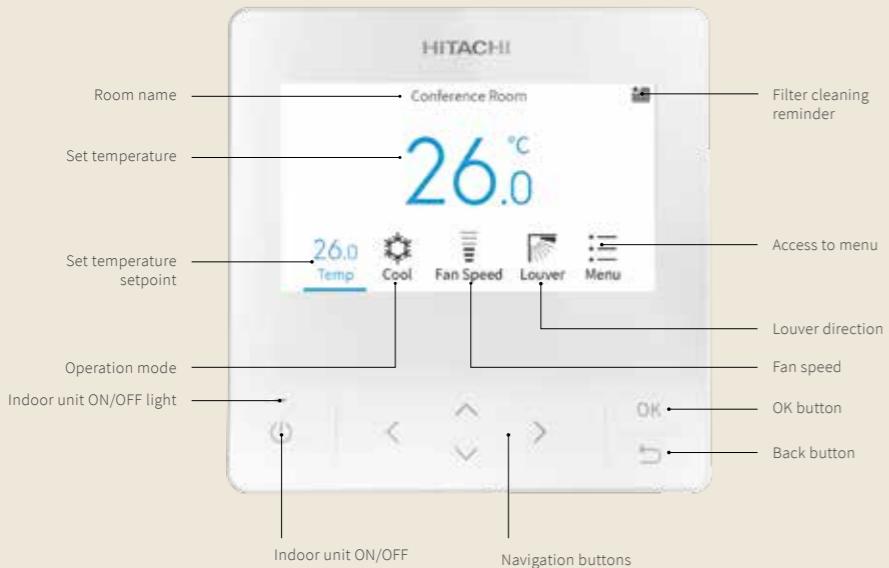
Wireless remote controller (PC-LH7QE2)

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

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

Individual controllers

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



Outer dimensions (HxWxD)

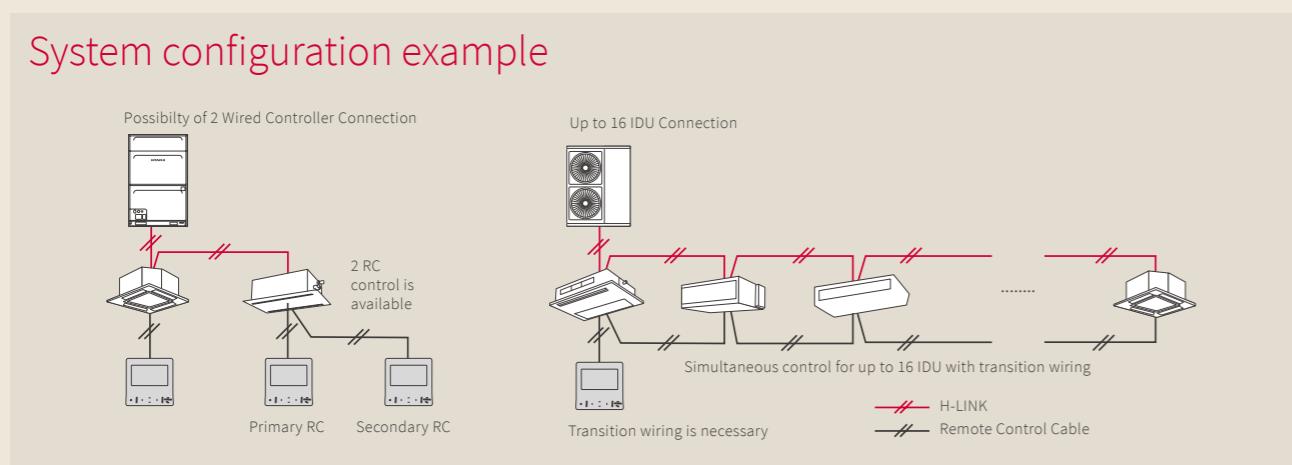
120*120*16.5mm (thinnest)
120*120*21.5mm (thickest)

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



reddot winner 2021

System configuration example



Functions

Simple Timer
Operation Schedule
Power-Saving Setting
Night Quiet Operation
Power-Saving/Night Quiet Schedule
Autoboot
Comfort Setting
Motion Sensor Setting
Setback Setting
Elevating Grille
Reset Filter Reminder Time
Filter cleaning
FrostWash™ Setting NEW
Individual Louver Setting
Louver Open/Close
Ventilation
Total Heat Exchanger SET
Adjust Date/Time
Run Indicator Brightness
Display Adjustment
Temperature
Language Setting
Chinese (Simplified/Traditional), Japanese English(C/F), French, Portuguese, Spanish

Lock Function
Password Setting NEW
Hotel Mode NEW
Power Saving Detail Setting
Night Quiet Operation
Autoboot
Comfort Setting
Motion Sensor Setting
Setback Setting
Elevating Grille
Reset Filter Reminder Time
Filter cleaning
FrostWash™ Setting NEW
Individual Louver Setting
Louver Open/Close
Ventilation
Total Heat Exchanger SET
Adjust Date/Time
Run Indicator Brightness
Display Adjustment
Temperature
Language Setting
Chinese (Simplified/Traditional), Japanese English(C/F), French, Portuguese, Spanish

Service and installation menu / Service
Setting Initialization
Main Remote Setting
Priority Setting
Cancel Preheating Control
Elevating Grille Setting
Power Up Setting
Setback Trigger Unit
Check 1
Check 2
Alarm History Display
Display Model Number
Check PCB of the Units
Self Check

Service and installation menu / Installation
Function Selection
Input/Output
Thermistor Selection
Thermistor Calibration NEW
Fan Speed at Thermo-Off NEW
Indoor Unit Address Change
Address Check Operation
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.

Operation



Function selection

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

Scheduling

View weekly schedules clearly and make quick adjustments easily.

Maintenance & service



Troubleshooting

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

Error alarm & history

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



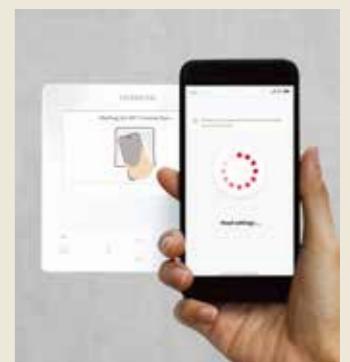
airCloud Tap time-saving tip

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



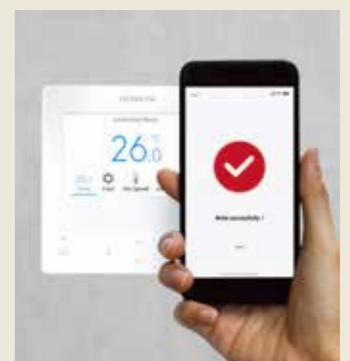
- 1 Activate the NFC function on the controller.



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



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



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



*In selected countries from Dec-2021



*In selected countries from Jan-2022

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

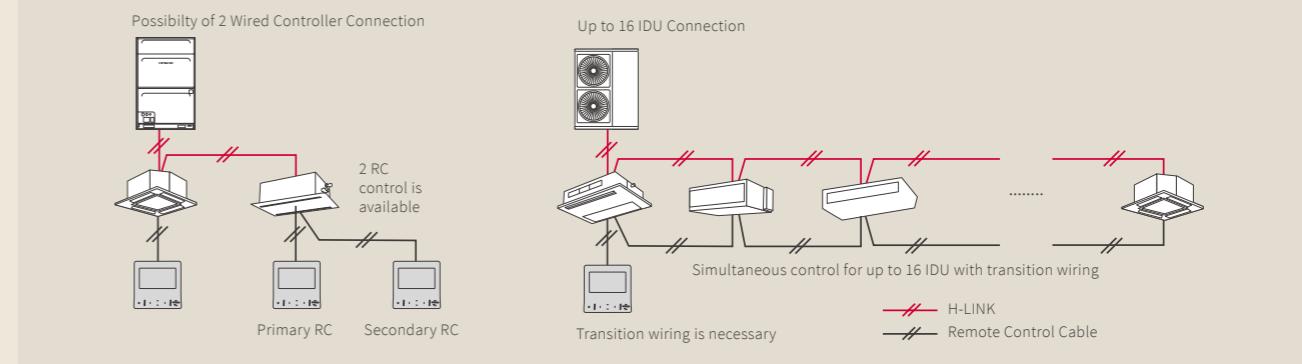


NEW
Eco-Compact Controller (PC-ARC-A)



Outer dimensions (HxWxD)
90x90x15.5mm (thinnest part)
90x90x18.5mm (thickest part)

System configuration example



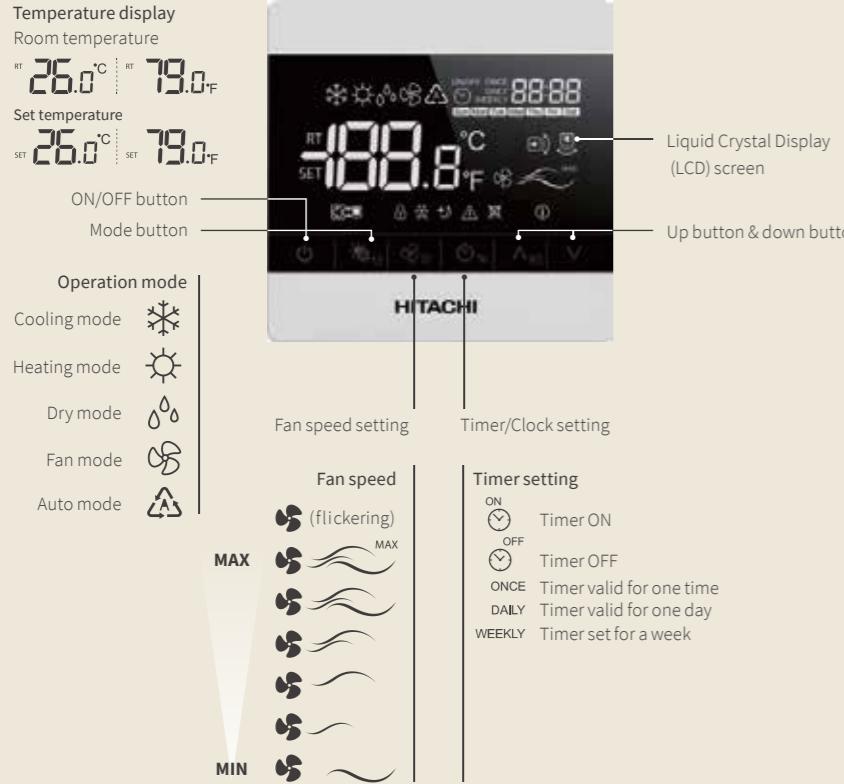
Functions

Controller setting	Current time display Clock synchronization with central controller NEW Room Temperature display °C/°F unit selection Backlight Embedded IR receiver NEW Embedded thermistor NFC airCloud Tap communication NEW Language: English (+ Arabic in PC-ARC-U)	Advanced user controls	Operation schedule schedule ON/OFF Simple timer Sleep Mode timer NEW Comfort setting (GentleCool) AutoBoost Individual louver control (for ceiling cassettes) Power saving setting (Peak-cut) Filter sign (time) reset Function selection Test run Input & output settings Operation lock Temperature upper and lower limits
Essential AC controls	Start/Stop Set temperature Louver position (air flow direction) Fan Speed Operation Mode	Installation & service	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 following functions: cassette elevating grille, FrostWash, and motion sensor-related features. Please note this is not an exhaustive list.

Individual controllers

Wired remote controller (HCWA10NEGQ)



Outer dimensions (H×W×D)

(mm) 88.0×88.0×15.5

Functions

Setting	Run/Stop Operation Mode Auto Mode Setting Temperature 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 Sensor Data Check Alarm History Display Test Run Function Selection (Optional Function Setting) Thermistor Selection Thermistor Calibration Input / Output Setting Indoor Unit Address Change Operation Lock/Set Management Lower Limit for Cooling Operation Upper Limit for Heating Operation Simple Timer (On/Off) Schedule Date/time setting
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Notes:

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

Advanced wireless remote controller (PC-AWR)



Outer dimensions (H×W×D)

(mm) 140.0×55.0×16.8

Functions

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

Wireless remote controller (PC-LH7QE2)



Functions

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

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

Receiver kit for wireless remote controller

Receiver Kit Model	HR4A10NEWQ	PC-ALHC1	PC-ALHD1	PC-RLHN12QE	Inbuilt	PC-RLH11	PC-RLH11	Inbuilt
Description	4-way cassette	4-way cassette compact	2-way cassette	1-way cassette	Floor/Ceiling convertible	In-the-ceiling	Floor concealed	Hi wall
IDU type								
Model	RCI-FSKDNQ	RCIM-FSN4	RCD-FSR	RCIS-FSKDNQ	RPFC-FSNQ*	RPIZ-HNATNQ RPIL-FSNK RPM-FSNK	RPF-FSNQ	RPK-FSNK1/2 RPK-FSN4M
PC-AWR	-	●	●	-	-	●	●	●
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).

Notes:-

When you use standard receiver kit (PC-RLH11 or HR4A10NEWQ) equipped with wireless remote controller (PC-LH3C):

- 1) Setting Hi2 air flow rate is not available even if the connected Indoor Unit has Hi2 air flow rate setting.
- 2) It is not available to set up "remote control switch operation prohibited by each function setting" from central station (mini).
- 3) It is not available to set up "remote control switch temperature setting range limitation function" from central station (mini).

H-LINK: enjoy more freedom

What is H-LINK?

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

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

**3X
more
benefits!**

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

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

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

Examples



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



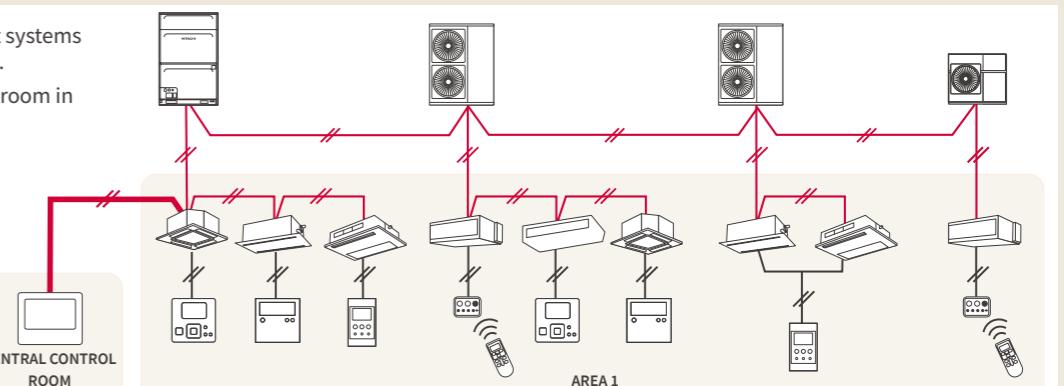
Hotels where it is preferable to complete installation work during late evenings.



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

Centralized controls: Flexible wiring route!

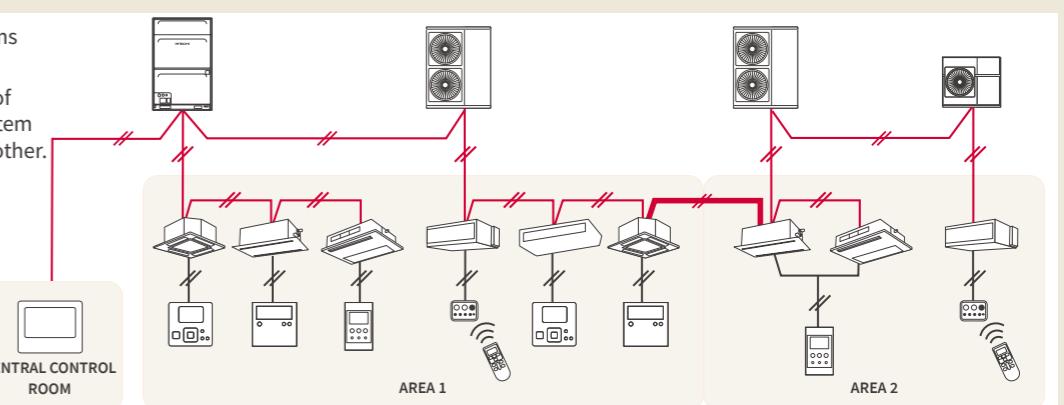
- (1) • Multiple refrigerant systems located in one area.
• Central monitoring room in separate area.



H-LINK SOLUTION

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

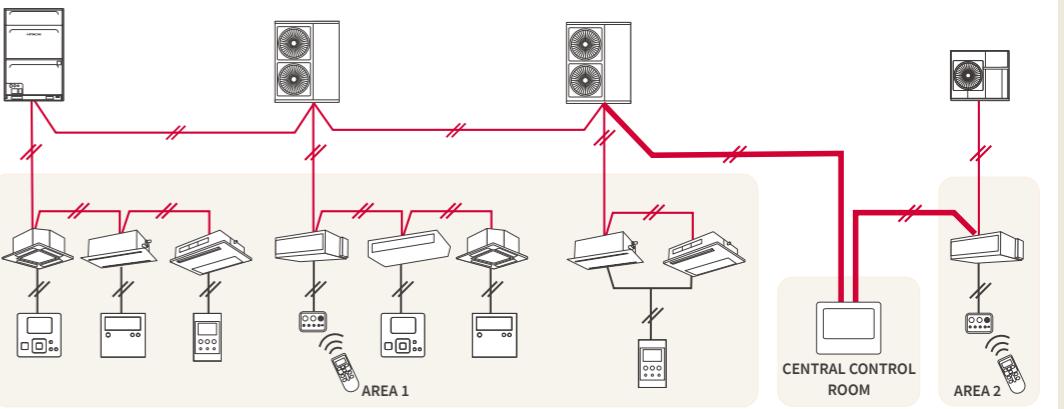
- (2) • Refrigeration systems in different places.
• Some indoor units of each respective system are close to one another.



H-LINK SOLUTION

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

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

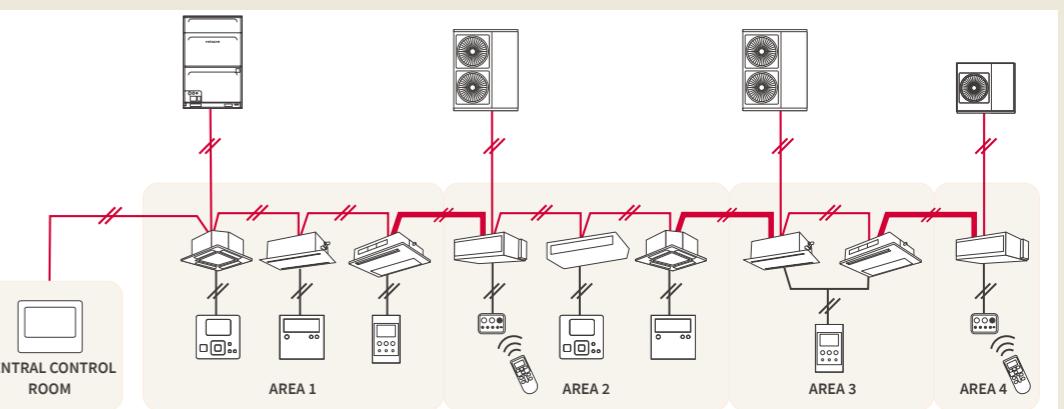


H-LINK SOLUTION

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

- (4) • Each refrigerant system in separate areas.

- Indoor units are closer from one group to another.

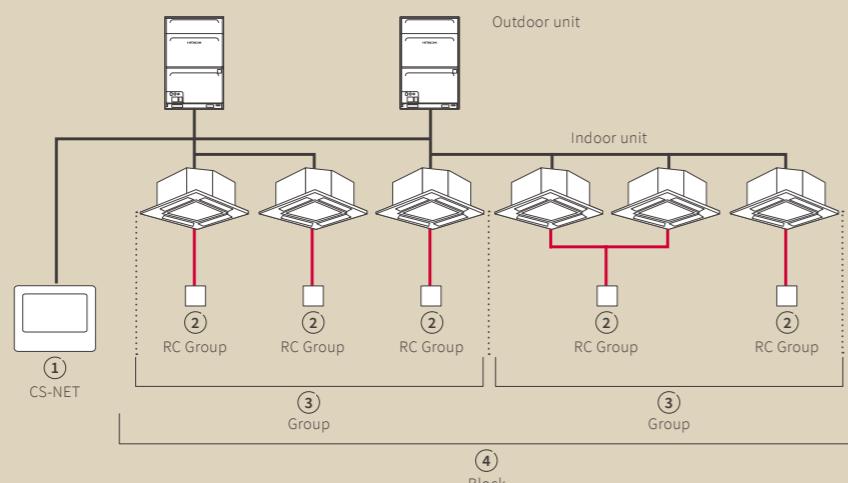


— H-LINK solution

— H-LINK

— Remote control cable

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.

NOTES

NOTES