HITACHI

air365 Max Pro air365 Max

VARIABLE REFRIGERANT FLOW SYSTEM





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The beauty of balance

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

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

Air. It's a wonderful thing.

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

This is our vision.

To create the air that makes life better.



Living Harmony

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

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



The future together

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

Your world. We live in it together.



Adapted to your spaces



Office



FLEBILITY

- A COMPLETE solution for whole office spaces; Large ESP Ducted IDU or AHU integrated to VRF for large entrance & conference room, Twin-Sense panel 4-way cassette for meeting rooms, 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
- During cold months, server rooms are cooled using the exhaust energy from heated rooms

SUSTAINABLE GROWTH

- (air365 Max Pro) Cooling AEER up to 4.63 /Heating ACOP up to 4.43 & specially optimized operation for part-load operation thanks to SmoothDrive 2.0 technology
- Achieve green-building certificate by more greenery appearance of buildings thanks to less-ODU occupied space & less-refrigerant necessary unit
- Smart monitoring and control: to cut the wasteful energy consumption by each checking status of units from airCloud Pro anywhere anytime
- Heat Recovery delivers additional energy savings
 >> improves energy efficiency by transferring excess heated or cooled air to zones needing extra cooling or heating

WELL-BEING

- Right temperature: Heat recovery systems offer simultaneous cooling and heating to meet individual needs
- Right Feeling; airflow control with sensor & original technology + less noise operation!
- Right Purity: many IAQ supporting units



Hotel



FLEBILITY

- Compact yet powerful cabinet of modular combination capability is SPACE-SAVING solutions, enabling placement on anywhere and transportation can be easier
- Higher flexibility of piping length can help ODUs installed all in one place so that whole installation cost can be decreased & for maintenance ease & less indoor noise bothering
- During cold months, server rooms are cooled using the exhaust energy from heated rooms

SUSTAINABLE GROWTH

- Less is More!: thanks to max 200% IDU combination capacity, purchase fewer ODUs is okay!
- Efficiency designed-in; (air365 Max Pro) Cooling AEER up to 4.63 /Heating ACOP up to 4.43 + 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
- Heat Recovery delivers additional energy savings
 >> improves energy efficiency by transferring excess heated or cooled air to zones needing extra cooling or heating

WELL-BEING

- Right temperature: Heat recovery systems offer simultaneous cooling and heating to meet individual patient's needs
- Right Feeling; airflow control with sensor & original technology + less noise operation!
- Right Purity: many IAQ supporting units



School



FLEBILITY

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

SUSTAINABLE GROWTH

- Help decrease the running cost thank to 1. (air365 Max Pro) Cooling AEER up to 4.63 /Heating ACOP up to 4.43 & 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: many IAQ supporting units from several ventilations to filters
- Easy removal of air filters in each indoor unit for the quicker and regular cleaning to keep your air conditioner clean



Hospital



FLEBILITY

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

SUSTAINABLE GROWTH

- (air365 Max Pro) Cooling AEER up to 4.63 /Heating ACOP up to 4.43 & 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
- Heat Recovery delivers additional energy savings
 >> improves energy efficiency by transferring excess heated or cooled air to zones needing extra cooling or heating

WELL-BEING

- Right temperature: Heat recovery systems offer simultaneous cooling and heating to meet individual guest needs
- Right Feeling; airflow control with sensor & original technology + less noise operation!
- Right Purity: many IAQ supporting units

Adapted to everyone's needs

Features, advantages and benefits at a glance

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





Those who design the building

EASY TO WORK WITH

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

DESIGN

- Large capacity yet smaller-footprint units (1.2m² for 24HP (air365 Max))
- 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: (air365 Max Pro) Cooling AEER up to 4.63 / Heating ACOP up to 4.43
- 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
- Additional energy savings by transferring excess heated or cooled air to zones needing extra cooling or heating



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 24HP (air365 Max)
- 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
- Single or multi-port CH-Box for any shape of buildings

INSTALL

- Less communication wiring with H-Link
- Less configuration time by airCloud Tap
- Easier & lower delivery cost by large capacity yet smallerfootprint cabinet
- Easier and quicker thanks to no-drain-connection required design

OPERATE

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

MAINTAIN

- 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: (air365 Max Pro) Cooling AEER up to 4.63 / Heating ACOP up to 4.43
- SmoothDrive 2.0 confirmed for 39% less energy-consumption at 33% part load operation
- Uses 10% less refrigerant in average
- Additional energy savings by transferring excess heated or cooled air to zones needing extra cooling or heating





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
- Best-in-class lightweight and smaller CH-Box for easier transporation

INSTALL

- · Less communication wiring with H-Link
- Easier & lower delivery cost by large capacity yet smallerfootprint 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
- Easier and quicker thanks to no-drain-connection required design

COMMISSION

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

OPERATE

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

MAINTAIN

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



Those who pay for the system

SEAMLESS COMFORT

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

- SmoothDrive 2.0 to keep the constant indoor temperature
- Low-Noise operation available for less trouble to the neighborhood
- Comfort features via supporting IDUs including FloorSense, FeeWarm, Crowd-Sense and more
- 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
- Several IAQ products available from ventilations to filters & ionizers to keep the indoor air clean and purified
- Heat recovery systems offer simultaneous cooling and heating to meet individual needs

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: (air365 Max Pro) Cooling AEER up to 4.63 /Heating ACOP up to 4.43
- 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 awardwinning remote controllers with user-friendly UX/UI

MAINTAIN

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

Our past shapes the future

The first manufacturing site of current Johnson Controls-Hitachi Air Conditioning was born in 1943 in Shimizu ward, Shizuoka Prefecture, Japan, then, in 1952, a small team of Japanese engineers set out to realize a unique vision: to help people around the world create their perfect indoor environment.

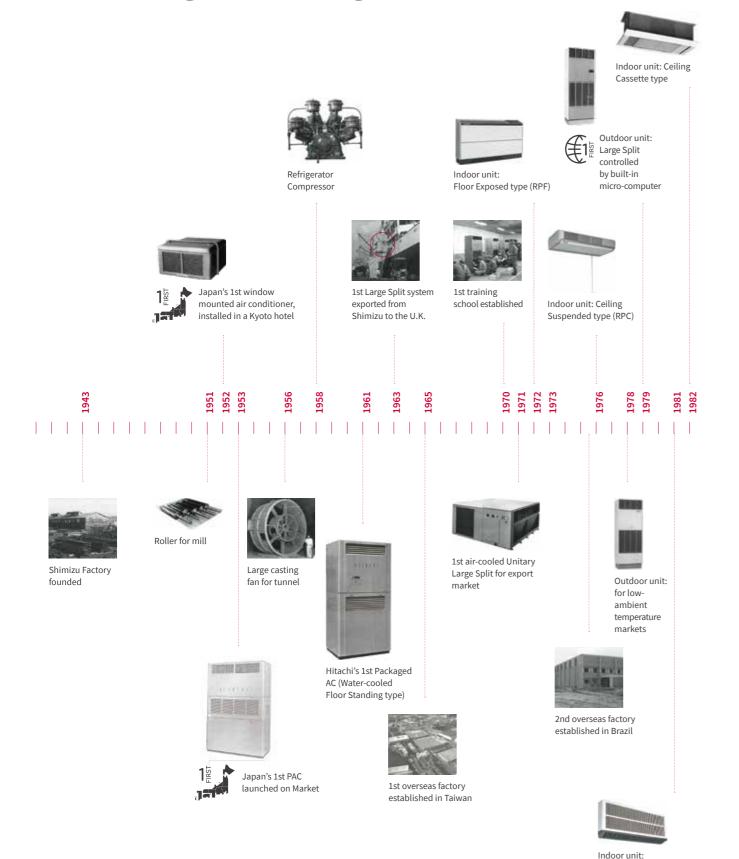
Today, we remain true to our legacy of fine Japanese design and engineering. Every Hitachi Cooling & Heating system is designed to perform reliably with innovative technology that sets the benchmark for the industry.

This is our commitment to you. Cooling and heating technologies to help create your interior Living Harmony.

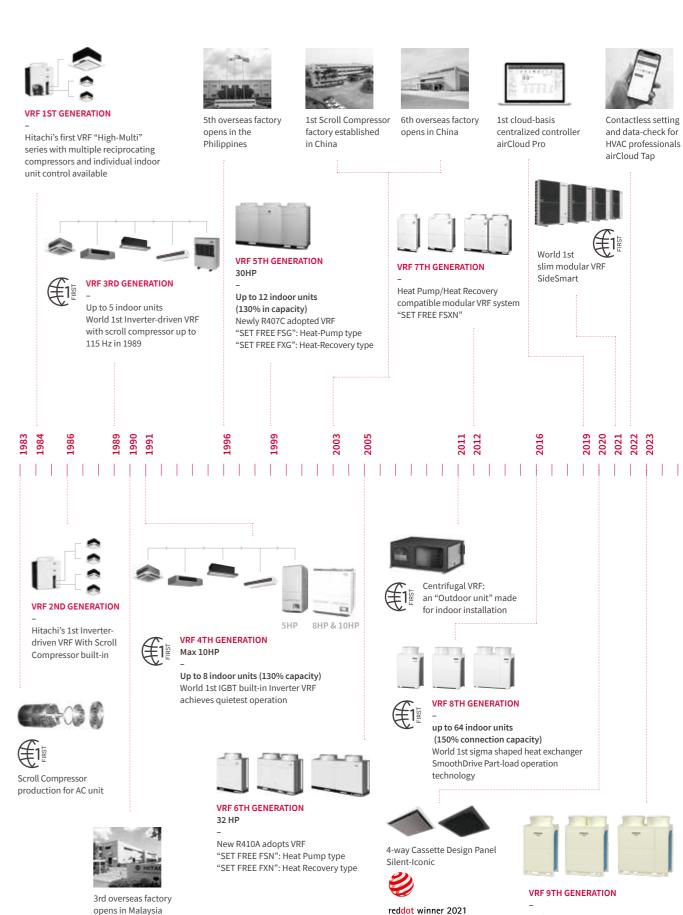




Our heritage in Cooling & Heating



Wall Mounted type (RPK)



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air365 Max

Red Dot Design Award Best-of-the-Best winning

OUTDOOR UNITS

End-to-end solution 13 Maintenance **Best-in-class efficiency** 19 Easy to work with **Seamless comfort** Easy to work with 49 **Air Source Heat Pump Type** (air365 Max Pro) (combined with Heat Recovery application) **Specifications** 55 **Air Source Heat Pump Type** (air365 Max) **Best-in-Class** (combined with Heat Recovery application) efficiency comfort Line up **Specifications** air365 Max Pro 64 **Option / Accessories** Operation air365 Max **End-to-end solution** HITACHI Commission Installation

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

Building Design

System Design

Technology

SmoothDrive technology

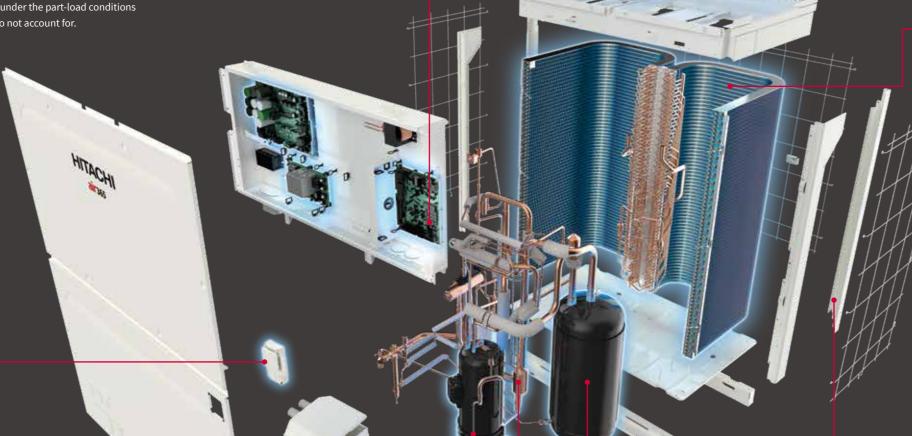
Cloud Tap

+ 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.

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





Smart Defrost

For Heat Recovery and Heat Pump types:

Defrosting frequency shortened by 2X for single ODU configurations Operate in up to -25C ambient

Defrosts the ODU in cold temperatures while minimizing the resulting downtime of the indoor units

Patented intelligent sensing technology detects when defrosting is required and instantly adjusts the exterior case temperature to eliminate ice and frost, so that it can reduce frequent and unnecessary defrosting operation.

Defrosting frequency reduced by more than 50%, requiring a defrosting cycle as little as every 250mins



Patented Sigma-shape with patented path structure

Σ shape!

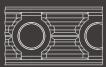


Our proprietary sigma-shaped (Σ) heat exchanger has around 6000 pieces aluminum fins as thin as of 0.1mm and characterized with its complicated surface to expand heat-transfer area. Around 350 copper tubes with special inner structure, and a new 3-way path structure which expands the heat-transfer area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









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.



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



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

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



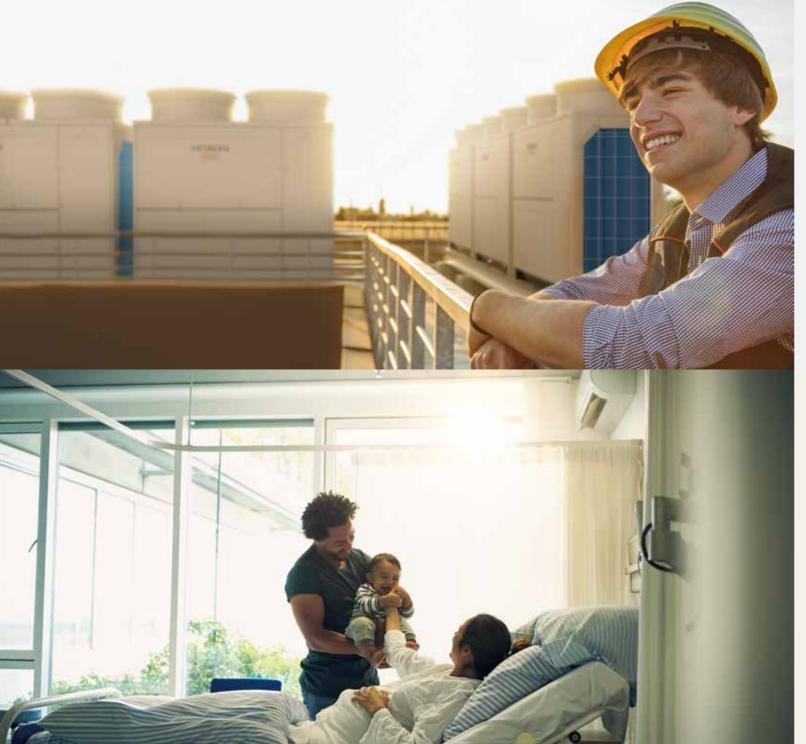


1Best-in-class efficiency

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.

6 key claims

- √ All-new heat exchanger and gas injection scroll compressor enables best-in-class VRF energy efficiency: Cooling AEER up to 4.63 / Heating ACOP up to 4.43 (air365 Max Pro)
- √ (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%
- √ Additional energy savings by transferring excess heated or cooled air to zones needing extra cooling or heating



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 24HP (air365 Max) and 200% IDU connection capacity
- √ [Deliver] Load up to 11% 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
- **√**[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.

5 key claims

- √ (Original) Constant indoor temperature even during partload operation with SmoothDrive 2.0
- √ Original & leading-edge technology including GentleCool and CrowdSense, for enhanced occupant comfort
- √ Neighborhood-friendly outdoor unit with 5dB(A) lower noise output in average by Night Shift Mode in average(air365 Max Pro)
- ✓ Purifying your indoor air with our affordable IAQ solutions including ViroSense filters and the Agtiv-Ion ionizer kit
- √ Heat recovery systems offer simultaneous cooling and heating to meet individual needs

3 SEAMLESS COMFOR

Boost your energy efficiency

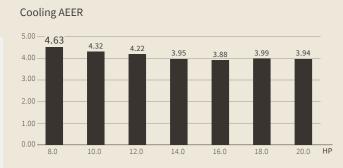
With air365 Max, discover how you can make significant improvements in your energy consumption fee.

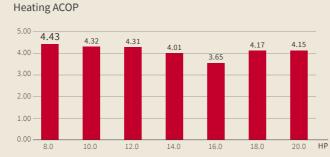
High efficiency ratio

- · Best-in-class efficiency
- · (air365 Max Pro) Cooling AEER up to 4.63 / Heating ACOP up to 4.43 (air365 Max) Cooling AEER up to 4.53 /Heating ACOP up to 4.33

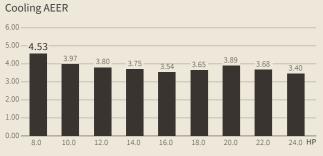
All-new heat exchanger and gas injection scroll compressor enables best-in-class VRF energy efficiency By installing air365 Max, and you can realize significant energy savings.

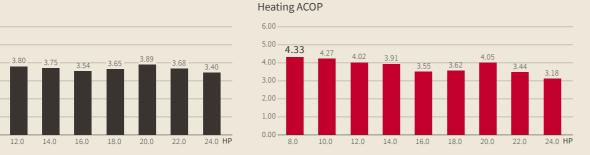
air365 Max Pro





air365 Max





- NOTES:

 1. The graphs above show the EER/COP of single units.

 2. The above values indicate the EER/COP per system (outdoor unit + indoor units) when it is combined with specified number of 4-way cassette indoor unit.

 1. The above values indicate the EER/COP 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%*

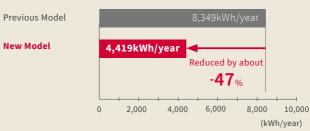
Our technology is improving every year.

Replace outdated HVAC solutions and achieve a 50% reduction in energy consumption and carbon footprint*

Electricity consumption reduction

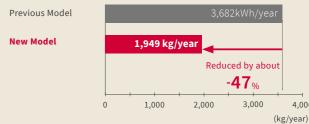


Comparison of (for a system equivalent to 10HP class (28.0kW)) Between [RAS-FSN Hitachi inverter VRF of 15years ago] VS [air365 Max RAS-HNCC**]



CO₂ emission reduction

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



2. The CO₂ emissions coefficient is 0.441 kg-CO₂ /kWh. Based on Electric Power Industry Council for a Low Carbon Society in FY20

- 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)

3. As reference in Japanese domestic model

Less refrigerant required

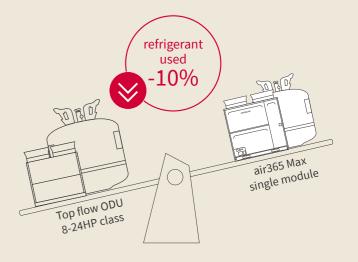
· Uses 10% less refrigerant in average*

Compared with our previous generation VRF product air365 Max uses 10% less refrigerant in average & 13.7% 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]

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% refrig	gerant* used!

- Simulation condition; Comparison between Single 8-24HP class (air365Max VS FSNS/ HNCQ) under 95% connection ratio (Heat Pump utilization)
- * Condition:16HP class ODU (45.0kW) *1 Total piping length; 120m (Heat Pump utilization)



VRF OUTDOOR UNITS! BEST-IN-CLASS EFFICIENCY

SEAMLESS COMFOR



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 air 365 Max utilizes direct capacity control which combines accurate temperature sensing with precise compressor control to balance load and capacity with less fluctuation. And its effect on energy consumption is verified formally at 3rd party testing facility.

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

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

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...

(power supply company)

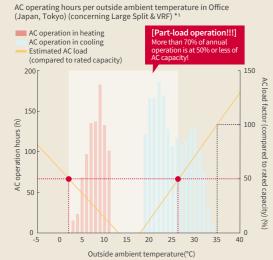


This causes VRF systems to operate at partial load

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

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

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



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

The simplicity of SmoothDrive

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

Why SmoothDrive?

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

real-world energy efficiency

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



temperature stability

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



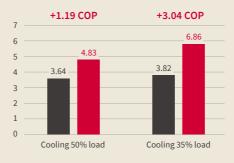
smoother compressor operation

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

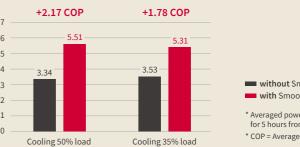
Real-world energy efficiency**

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

COP in Cooling mode



COP in Heating mode



without Smooth Drive with SmoothDrive

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

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EFFICIENCY

with SmoothDrive

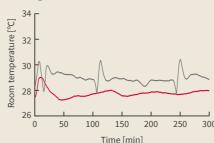
OUTDOOR UNITS! BEST-IN-CLASS

VRF

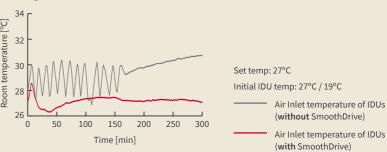
Temperature stability**

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

Cooling 50% Load



Cooling 35% Load

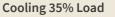


Smoother compressor operation**

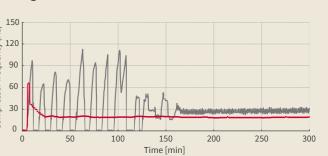
Compressor rotation frequency is more precise and stable.

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





without SmoothDrive



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

Please refer to the leaflet for details

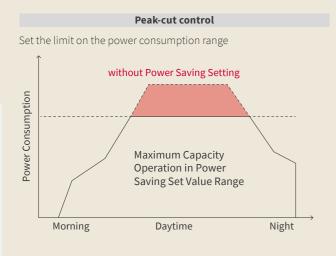
Demand control

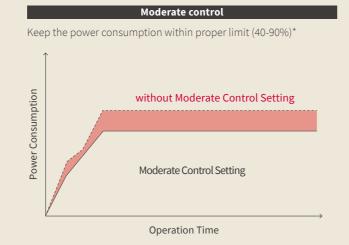
- · Manage your electricity during peak periods
- · Peak-cut Control
- · Moderate Control

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.





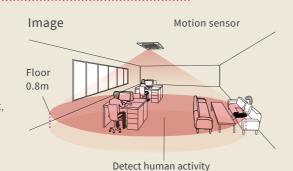
* Power Saving Set Value It can be selected from 100%, 90%, 80%, 70%,60%, 50%, and 40% of reference power consumption.

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

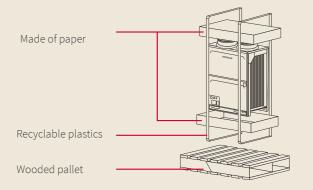
If the absence continues for more than 30 minutes, the operation can be stopped by setting

Resume standard operation when people return

Lowering direct environmental impact

· Eco-friendly packaging

Our unit packages are all designed for easy disposal ODU: Wood/Paper packaging only IDU: Classification marks for easier recycling of plastic



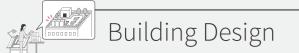


24

/RF OUTDOOR UNITS! BEST-IN-CLASS EFFICIENCY

A complete solution at every stage

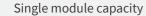
From design to installation, operation and maintenance, air365 Max is here to make your work easier.



Larger capacity, smaller footprint

- · Single module capacity up to 24HP per unit (air365 Max)
- · Up to 50% smaller cabinet footprint (air365 Max Pro)
- · Maximum combination up to 64HP
- · Maximum IDU connection ratio up to 200%
- · Supports vertical stacking of ODUs to save space

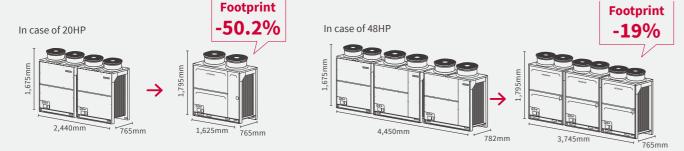
Lower initial cost through faster and easier installation Occupies less space in buildings, rooftops or balconies Enables more real estate for greenery or photovoltaic systems







Smaller cabinet footprint

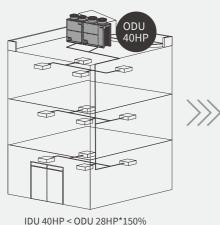


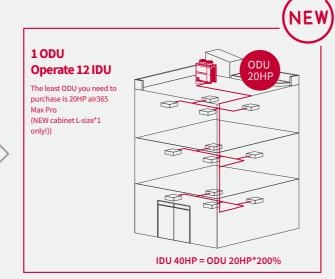
Thanks to 200% IDU connection ratio

In case that IDU total capacity are 40HP

Before

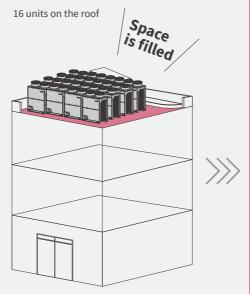
2 ODU Operate 12 IDU (The least ODU you need to Total 2 single modules! (FSXNP M-side*1 & L-size*1))

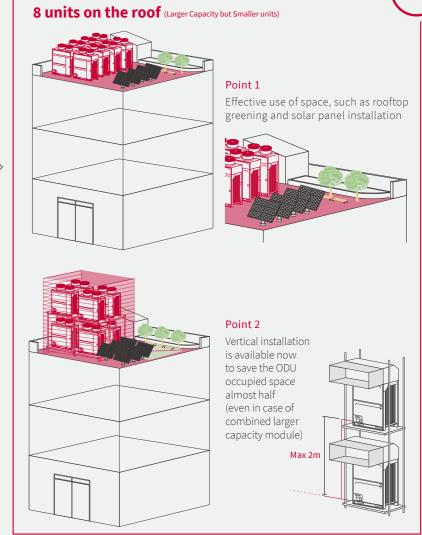




Thanks to large capacity & installation flexibility

In case that ODU total capacity is 160HP





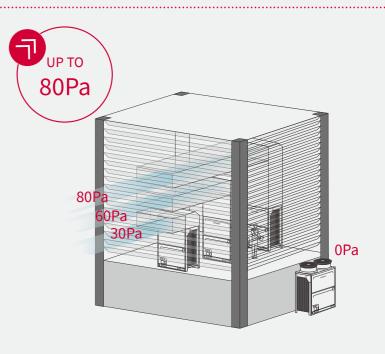
High external static pressure (ESP)

· 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.





VRF OUTDOOR UNITS! EASY TO WORK WITH





System Design

More flexible piping configuration

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

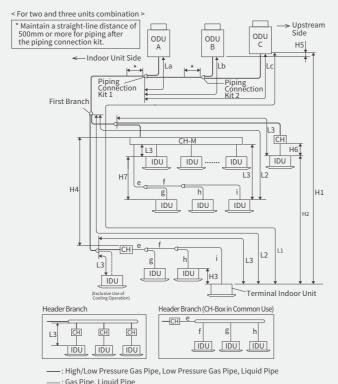
Longer pipe runs and greater height differences enable more flexibility for use in retrofit or renovation projects Supports installation in high-rise buildings

Depending on building design, enables location of all units on the rooftop for faster installation and easier maintenance Enables more discrete placement further away from visual and noise sensitive spaces

Maximum Piping Length

		Mark	Allowable Piping Length
Total Piping Length		Total Liquid Piping Actual Length	≤ 1,000m
Marriaguas Dining Langth	Actual Length	-L1	≤ 200m
Maximum Piping Length	Equivalent Length		≤ 225m
Maximum Piping Length b Multi-kit of 1st Branch and		L2	≤ 100m
Maximum Piping Length b CH-Box (Multiple Branch 7	petween Each Multi-kit / Type) and Each Indoor Unit	L3*3	≤ 40m
Total Piping Length betwee CH-Box and Each Indoor l		e+f+g+h+i	≤ 40m
Piping Length between Piping Connection Kit 1 a	nd Each Outdoor Unit	La, Lb, Lc, Ld	≤ 25m
Height Difference between Outdoor	O.U. is Higher	114	110 (50)*1
Units and Indoor Units	O.U. is Lower	-H1	110 (40)*2
Height Difference betwee	n Indoor Units	H2	≤ 40m*4
Height Difference between Indoor Units using the San		H3	≤ 4m
Height Difference betwee	n CH-Boxes	H4	≤ 40m*4
Height Difference betwee	n Outdoor Units	H5	≤ 2.0m
Height Difference betwee	n CH-Box and Indoor Units	H6	≤ 15m

- *Notes.
 *1. The maximum piping length of 110m is available on request. The following restrictions apply when the height difference between the outdoor units and the indoor units (the outdoor unit is higher) are 50m or more.
- The maximum outdoor temperature during cooling operation is $43^\circ\text{C}.$ The height difference between the outdoor units and the indoor units must be 50m or less when the outdoor units are operated at anoutside temperature of -10°C or less.
- The connectable indoor unit capacity ratio is ≤ 100%.
 To protect the system, the thermo OFF may be activated to turn the system off when the outside temperature is 38°C or more.
- Performance priority mode is disabled.
 The maximum piping length of 110m is available on request. The following restrictions apply when the height difference between the outdoor units and the indoor units (the outdoor unit is lower) are
- The maximum outdoor temperature during cooling operation is 43°C.
- \bullet The minimum outdoor temperature during cooling operation is 10°C.
- The connectable indoor unit capacity ratio is ≤ 130%.
- * 3. The piping length calculation is not included the Multi-Kit between CH-Box and Indoor Unit(s). (Lm in following examples are NOT L3.)
- *4. If the height difference between indoor units or the height difference between CH-Boxes exceed 15m, the liquid lines after the Multi-kitof first branch should be selected according to Height Difference between Indoor Units Restriction.



: Low Pressure Gas Pipe, Liquid Pipe

CH : CH-Box (Single Branch Type) CH-M: CH-Box (Multiple Branch Type)

Widest choice of indoor units

- Total 18 types
- · Design award winning design

With more than 100 different indoor units to choose, air365 Max supports a wide range of building layouts and interior design requirements Includes units that can be hidden to suit indoor aesthetics Exposed units that minimize installation costs

Best balance of cost and aesthetics can be supported by the unique Silent-Iconic 4-way cassette panel

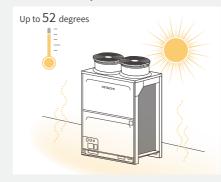


Anytime & Anywhere

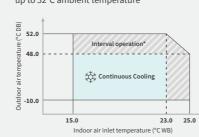
- · Cooling in 52 ~ -10°C
- · Heating in 16 ~ -25°C
- · Normal operation even under up to 60m/s
- JRA anti-corrosion treatment available

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

Summer temperature



Cooling operation from up to 52°C ambient temperature

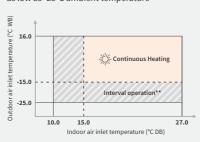


*Only in the case where the outside temperature (outdoo unit air inlet temperature) rises temporarily due to, for example, the installation condition, the system can be used at a temperature up to 52°C

Winter temperature



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



**The range is intended for only a limited amount of time for example, starting up the system early in the morning and is not for continuous stable operation for a long

Wind-proof cabinet





Test machine: RAS-FSNS (confirmed that it has the same structure and has the same durability of air365 Max RAS- HNCC)

Test conditions: Experiment of blowing wind equivalent to 60m/s

EASY TO WORK WITH

OUTDOOR UNITS!

Operation is possible with no scattered

parts or cracks in the refrigerant pipes. Assessment site: by Large fan at Tsukuba Techno Center of Ryuki Engineering Inc.

Anti-Corrosion Cabinet + Gecko-proof treatment

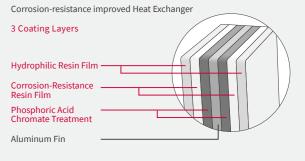
If your project is located in an extreme weather environment, consider applying an anti-corrosion treatment to your air365 Max outdoor units. Treatment can be arranged in factory based on the JRA9002 standard, with multiple layers on every component of the unit. With this treatment, the life expectancy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



Corrosion Resistance

Life-expectancy comparison In salty-air-location





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



System Design

Ch-Box (Change-Over Box)

- Lightweight, smaller and easy to installNo drain connection required
- · Widest lineup (From Single up to 16 multi-ports system configuration)

Connecting the outdoor and indoor units, the CH-Box is a key component in the performance of the air365Max of Heat Recovery operation, because it can affect the initial installation cost, also the indoor comfort of quietness too.

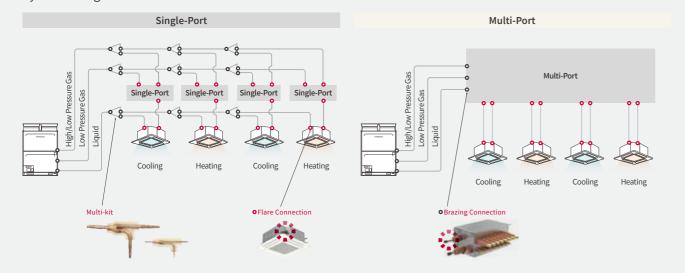
Our CH-Box now offers greater flexibility n both single-port or multi-port models, with a new compact and lightweight body, and requires no

Depending on the building shape, you can select the best port, which will optimize the best performance & cost balance.

Wider line up

Туре			Single-Port		Multi-Port			
			CH-AP160SSX	CH-AP280SSX	CH-AP04MSSX	CH-AP08MSSX	CH-AP12MSSX	CH-AP16MSSX
Model			III-	1	1	The same	To annual to the same of the s	Ti Manager
Dimensions	s (H×W×D)	mm	191×301×214	191×301×214	260×303×352	260×543×352	260×783×352	260×1,023×352
N/W		kg	6	6	14	25	36	47
	Power Supply		1~/N, [220-240V/5	50Hz]	1~/N, [220-240V/50)Hz]		
Electrical Details	Power Input	W	5	5	11.2	22.4	33.6	44.8
	Current	Α	0.1	0.1	0.2	0.4	0.6	0.8
Maximum 1	Total Capacity Index	kW	16	28	44.8	85	85	85
Number of	port (for IDU)		1	1	4	8	12	16
Maximum (Connectable IDUs per Port		7	8	6	6	6	6
Maximum Piping l ength	Total piping length between CH-Box and each indoor unit per branch	m	40	40	40	40	40	40
	between CH-Box	m	40	40	40	40	40	40
Maximum	Between CH-Box and IDU	m	15	15	15	15	15	15
Height difference	Between Indoor Units Connected to Each Branch of Same CH-Box (Multiple-Port Type)	m	15	15	15	15	15	15
	Between Indoor Units using the Same Branch of CH-Box	m	4	4	4	4	4	4

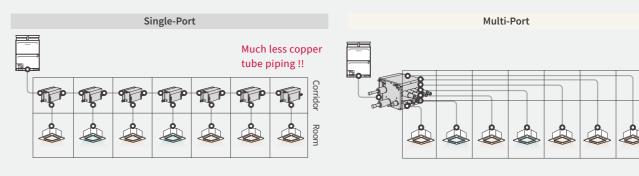
System configuration





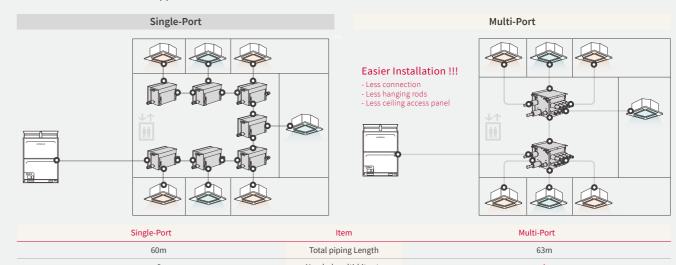
Which is better?

► "Long narrow building" application



Single-Port	Item	Multi-port
58m	Total piping Length	136m
6	Needed multi-kit sets	0
92 points (Brazing: 57/Flare: 32)	Connection Points	34 points (Brazing: 6/Flare: 28)
14	Hanging Rods for CH-Box	4
14 pieces	Total Ceiling Access Panel	8 pieces

► "Central CH-Box location" application



Single-Port	Item	Multi-Port
60m	Total piping Length	63m
6	Needed multi-kit sets	1
92 points (Brazing: 57/Flare: 32)	Connection Points	40 points (Brazing: 12/Flare: 28)
14	Hanging Rods for CH-Box	8
14 locations	Total Ceiling Access Panel	9 locations





System Design



reddot winner 2022 interface design

airCloud Select

- · "airCloud Select" is the new software created by Hitachi to help you quickly finish the unit selection for your VRF design project.
- Enjoy a super intuitive and modern interface
- Select the suitable VRF equipment for each project
- Generate automatic report for your customers

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







Easier delivery

· Load up to 11% more AC capacity in a single vehicle

Our air365 Max units are designed to work in harmony with your outdoor and indoor spaces. Lighter and smaller than ever before, they are easier and cheaper to transport.



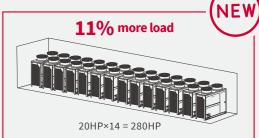
In case of 40ft containers, L-cabinet can be loaded by 14pcs

Previously, L cabinet (RAS-FSXNP) was up to 18HP class

So, just simply if it is the comparison of single module combination, 11% more load.



Now, air365 Max Pro: L cabinet (up to 20HP class)

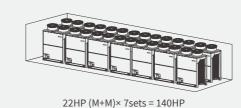


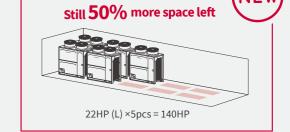


In case of 10ft van, M-cabinet loaded up to 14pcs & L-cabinet up to 10pcs

Previously, a van was full of loading by 20HP (2*M cabinet in FSXNP)* 7 sets = total 140HP Now, air365 Max Pro: One single L cabinet (up to 20HP class) * 5 pcs = Total 140HP So, even same capacity, but still 50& more space left!!!!!

Before





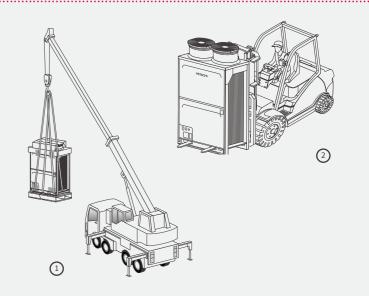
Safer unloading

- · The holes for hanging by Sling belt by crane trucks
- The holes for the hand/fork lifters

New cabinet design features more holes for forklifting

Center holes are for forklift trucks or hand-lifters Outer two holes are used for sling belts to lift the units with a crane

1 Package shows the part to be hanged by lifting cranes too 2 In case of forklift or handlifer, even without pallet, there is a special hole to be transported





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Installation

Easy delivery with holes

· 4 different types of all delivery can be easily arranged

Our air365 Max units are designed to work in harmony with your outdoor and indoor spaces. Lighter and smaller than ever before, they are easier and cheaper to transport.

Package shows the part to be hanged by lifting cranes too



In case of forklift or handlifer, even without pallet, there is a special hole to be transported

Mobile deck can be supported by the frat bottom part

Large yet small footprint cabinet >> fit in the lift





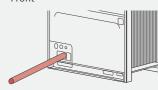


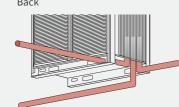
Choice of piping direction

· 4 directions, 9 options

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





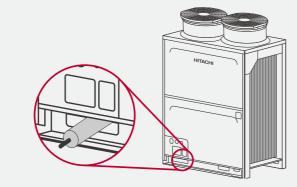


- · Through the piping port on the front
- Through the Unit base hole
- [To the right]
- Through the piping port on the front
- · From bottom of the cabinet
- · Through the Unit base hole

- \cdot Through the piping port on the front
- · From bottom of the cabinet
- · Through the Unit base hole

[To the rear]

· Through the Unit base hole



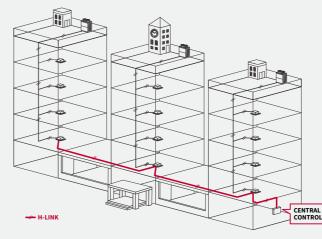


H-LINK: flexible route of communication wiring

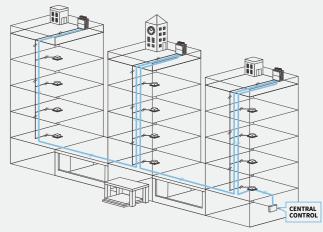
· Faster wiring with H-LINK

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

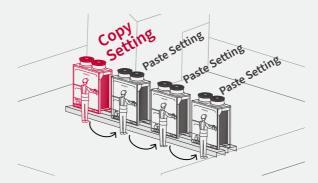
All settings are available with convenient descriptions inside the phone app

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!

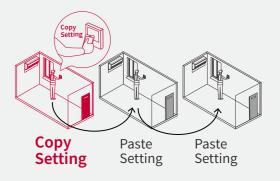


76% time reduction (ODU configuration)



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

53% time reduction (IDU + CTRL configuration)



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



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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

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







Operation

Monitoring app air Cloud Pro

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



√ Intuitive simplicity

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

√ Control from anywhere

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

Individual controllers PC-ARFG1 / PC-ARC



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

ADVANCED-COLOR CONTROLLER (PC-ARFG1-*)



reddot winner 2021

Complete controls in a rich interface

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

ECO-COMPACT CONTROLLER (PC-ARC-*)



Value without compromise

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







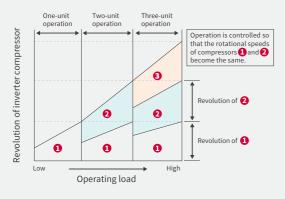
Maintenance

Compressor rotation control

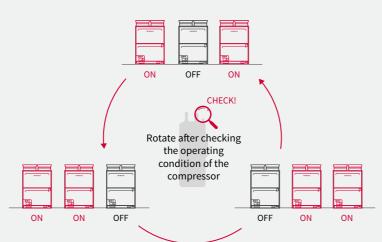
Extend ODU lifecycle

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

Compressor rotation frequency control (example)



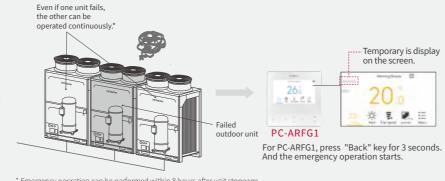
- *1 At least 2 outdoor units are required for this function.
- *2 Comparison between the rotation operation function and non-rotation operation function based on the same system



Emergency operation mode

· Continue HVAC operation in the event of a unit failure

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



* Emergency operation can be performed within 8 hours after unit stoppage.

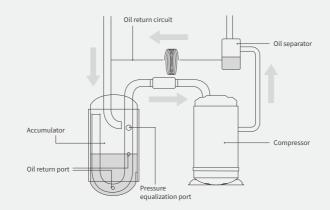
Emergency operation cannot be performed when 8 hours have elapsed since unit stoppage

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 noiseresulting 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





DESIGN

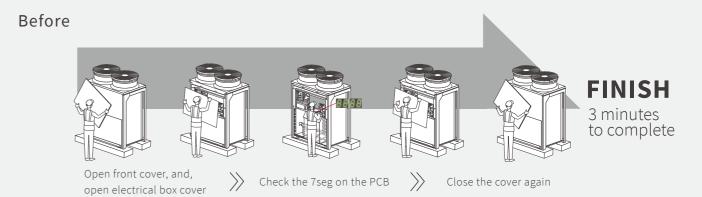
- 6X faster access to unit operational data*
- · 80% time reduction (ODU data check)

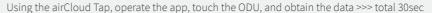
Previously, a maintenance engineer would need to open both the front panel of the cabinet and electricity box panel, then check error codes

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.



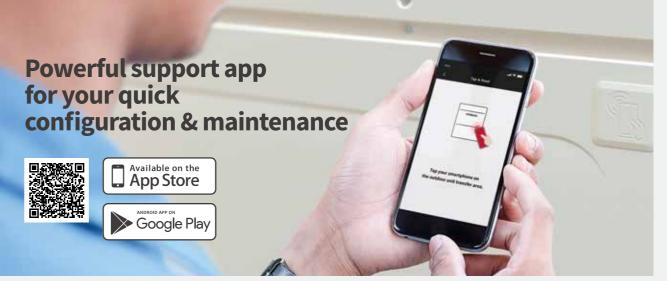




Test simulation scenario: Check the alarm cause [Previously] open up the cabinet panel, open the electricity box cabinet panel, check the 7segment of the PCB, then, close the two cabinet panels.

>>> minimum takes 3mii

[Now] just activate the aircloud Tap application, and, operate the screen, and TAP the outdoor unit and obtain the data >>> takes 30sec!



EASY TO WORK WITH OUTDOOR UNITS!

Enjoy the perfect air anywhere, anytime

Indoor comfort

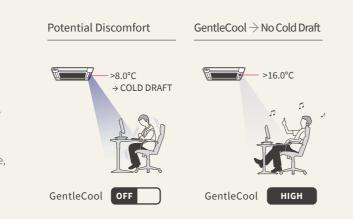


GENTLECOOL

· Prevents cold drafts all the time

When starting up air conditioners can discharge very cold air to guickly reach the required temperature for the room, but this can result in cold drafts making occupants uncomfortable. With GentleCool you can adjust the balance between achieving a lower room temperature quickly and avoiding cold drafts.

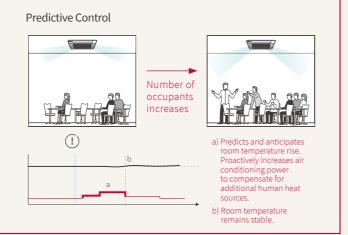
Because you can now set your preferable WIND temperature, as well as ROOM temperature.



CROWDSENSE

· Maintains a stable temperature as the number of occupants change

With CrowdSense technology, our VRF cassette units can determine how many people are in a space and adjust the cooling or heating capacity accordingly, so the room will never get too hot or cold, whether it's crowded or almost



FLOOR-SENSE COOLING

Prevents over-cooling of the floor area in cooling mode

In cooling scenarios, FloorSense Cool can prevent the floor area from overcooling by controlling airflow and cooling capacity so that the air at floor level does not get as cool as air above knee height.



is used for a long time, the room gets cold





Adjusted to reduce overcooling after detection



DIRECT/INDIRECT CONTROL

· Occupants can choose whether they want to directly feel airflow

The presence of occupants is detected through a motion sensor which divides the room into 4 zones – one for each louvre. For each of the 4 zones served by a cassette, air can be served either Direct or Indirect. Therefore one zone could receive direct airflow while another has indirect airflow.

Indirect air flow

Horizontal air flow, for circulation above and around occupants without airflow so that people can feel the air blowing directly on them. direct cold air

(Image) during cooling

Direct Air Distribution Conditioning the air by Auto-Swing

(Image) during cooling

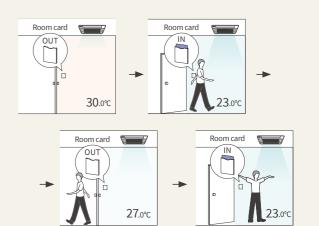
Auto swing



HOTEL SETBACK

· Interlocks with hotel key card to automate operation based on guest entry

Hotel Setback temperature with interlock to key card reduces AC operation when the guest leaves but maintains room temperature within a comfortable range. Win-win feature for both hotel guests & hotel managers to achieve Comfortsatisfaction & energy saving operation



FEET-WARM HEATING

· Intelligent heated air distribution, tailored for the human body.

In room heating scenarios, it's common to hear users complain of cold feet because heat naturally rises. FeetWarm helps to solve this problem by optimizing airflow in heating mode to ensure that the leg zone is consistently heated.

Conventional heating



Heating with FeetWarm

OUTDOOR UNITS! SEAMLESS COMFORT

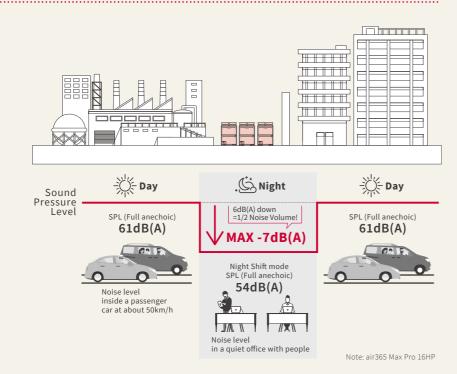


Low Noise Operation

· Neighborhood-friendly outdoor unit with 5dB(A) lower noise output* in average

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

#Normal Sound Pressure (SPL) in Full Anechoic VS #Night-shift mode (SPL) in Full Anechoic Average: -5dB(A) in case of air365 Max Pro -3dB(A) in case of air365 Max Reference: Architectural Institute of Japan "Sound insulation performance standards and design guidelines for buildings"

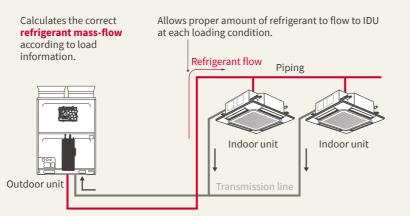




DIRECT capacity control SmoothDrive[™] 2.0

· Constant indoor temperature even during part-load operation

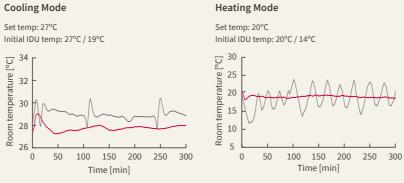
With continuous monitoring and adjustment of the capacity based on compressor speed, indoor temperatures can be maintained more accurately.



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

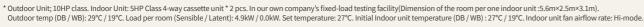


50% Load



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





IAQ matter

ViroSense S filter

Our standard VRF filter has been upgraded to ion technology

Contains a silver ion that is released in the presence of moisture, binding to cellular enzymes of microbes and inhibiting enzyme activity of the cell wall, membrane, and nucleic acids.

Anti-virus (>99% inhibition) / Anti-bacteria (>99% inhibition) / Anti-mold (100% growth stop)

Standard-equipped filter ViroSense S filter



BENEFITS







ViroSense Z2 Filter

This optional filter can help to reduce the risk of secondary SARS-CoV-2 infections in a room

Contains Zinc Ion - in the presence of moisture it is able to bind to virus and bacteria and inhibit. Anti-virus (>99.7% inhibition) / Anti SARS-CoV-2 (>99.9% inhibition) / Anti-bacteria (>99% inhibition)

Optional accessory filter ViroSense Z2 Filter



BENEFITS







Inhibition by

over 99.7%





Life span of up to 4 years



AQtiv-Ion Kit

AQtiv-Ion Kit for Ducted units

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

Optional accessory filter **AQtiv-Ion Kit**



BENEFITS







(Inhibition rate





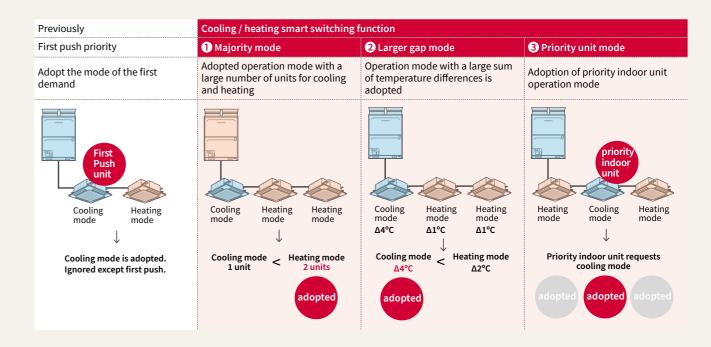


Smart cool/heat changeover (Heat Pump type only)

· 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



Example of 3 modes

Majority mode

Under the conditions

Request for cooling mode: 2 units

Request for heating mode: 6 units

2 Larger gap mode

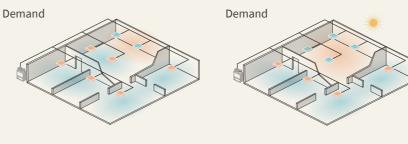
Under the conditions

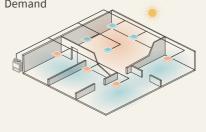
Cooling demand: temp. differences is total Δ8°C Heating demand: temp. differences is total Δ5°C

3 Priority unit mode

Under the conditions

Priority indoor unit requests cooling mode













Adopted Heating mode

Result



Result Adopted Cooling mode



Result Adopted Cooling mode



VRF OUTDOOR UNITS I SEAMLESS COMFORT





· Defrosting frequency shortened by 2X for single ODU configurations

For Heat Pump types:

Operate in up to -25°C ambient

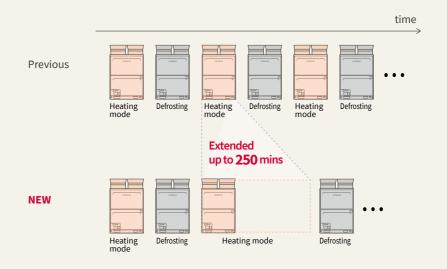
 ${\it Defrosts the ODU in cold temperatures while minimizing the resulting downtime of the indoor units}$

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

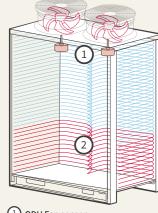
a defrosting cycle as little as every 250mins

* Defrosting(Includes heating operation rise time)



status with two sensors

Accurately grasp the heat exchanger

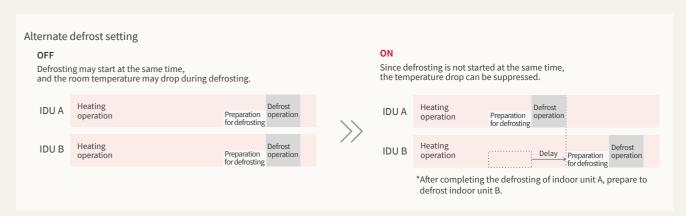


① ODU Fan sensor

Networked Defrosting optimization

· Continuous operation in extreme cold weather for multi-ODU configurations

Enables multi-ODU configurations to maintain continuous operation by avoiding all ODUs defrosting at the same time



 $^{^{\}star}$ To activate this feature, all outdoor units need to be under one centralized communication wiring system (H-LINK)

VRF OUTDOOR UNITS! SEAMLESS COMFORT

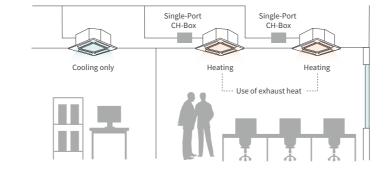
⁽²⁾ Heat Exchanger sensor



Limit your total cooling and heating costs

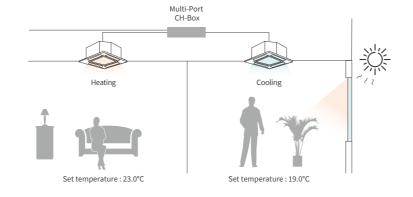
By using and transferring excess energy from one zone to another, Heat Recovery systems minimize compressor operation to provide simultaneous cooling and heating. This means energy consumption is greatly optimized leading to low energy costs in the mid-season.

Besides, in the case of rooms requiring cooling only all year long, heat recovery -by installing a cooling only indoor unit without CH-Box- can cover this need, thus sparing the need to install an extra dedicated cooling device.



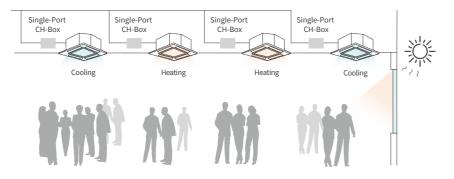
Customized comfort

Thermal needs vary in each room of a building—some people might feel a little too warm, and some a bit chilly. This depends on the individuals, and also on the room's sunlight exposure and equipment functions. With heat recovery, every occupant can benefit from either cooling or heating at any time, based on his/her preferred set temperature.



Consistent temperature in large zones

The air365 Max Heat Recovery range allows simultaneous cooling and heating, even inside the same zone of the same refrigerant system. It is particularly ideal in large zones where some areas are subject to specific conditions (such as near a sunny window). Thanks to the automatic changeover function, each indoor unit automatically switches from cooling to heating to evenly reach the set temperature.



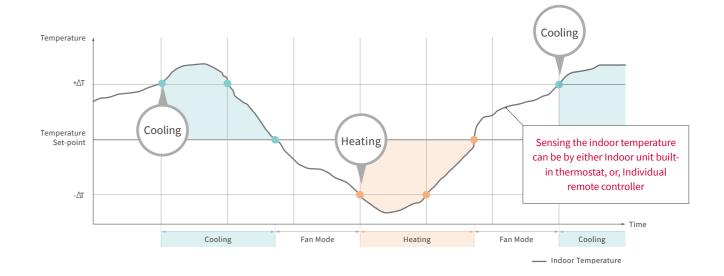
Heat Recovery or Heat Pump?

All buildings do not require simultaneous heating or cooling, such as those in areas with clearly defined seasons or with large, open-plan areas. Your Hitachi supplier can help you select the system best suited to your building.

Auto changeover

- · Optimized heat recovery ensures greater energy savings
- · Indoor unit thermostat or individual remote control can be used for temperature sensing

Consistency is the key to a harmonious interior environment. To ensure a consistent interior climate air365 Max Pro & air365 Max can switch automatically from cooling to heating in any zone, by harvesting the waste heat from other zones.







LINE UP

(HP Class/Cooling Capacity/Heating Capacity/Net Weight/Operating Sound SPL (Full-anechoic) dB(A) in cooling mode)



8HP class/22.4kW/25.0kW/217kg/52dB(A) 10HP class/28.0kW/31.5kW/217kg/55dB(A)



Footprint 1.71m²
22HP class/61.5kW/69.0kW/489kg/61dB(A)



12HP class/33.5kW/37.5kW/272kg/59dB(A) 14HP class/40.0kW/45.0kW/307kg/61dB(A) 16HP class/45.0kW/47.5kW/307kg/61dB(A)



Footprint 1.24m²
18HP class/50.4kW/56.0kW/350kg/62dB(A)
20HP class/56.0kW/63.0kW/374kg/62dB(A)



Footprint 1.90m²
24HP class/67.0kW/77.5kW/544kg/62dB(A)
26HP class/73.5kW/82.5kW/579kg/63dB(A)
28HP class/80.0kW/90.0kW/614kg/64dB(A)
30HP class/85.0kW/92.5kW/614kg/64dB(A)
32HP class/90.0kW/95.0kW/614kg/64dB(A)



34HP class/95.4kW/103.5kW/657kg/65dB(A)



36HP class/100.8kW/112.0kW/700kg/65dB(A)
38HP class/106.4kW/119.0kW/724kg/65dB(A)
40HP class/112.0kW/126.0kW/748kg/65dB(A)



42HP class/120.0kW/135.0kW/921kg/66dB(A)
44HP class/125.0kW/137.5kW/921kg/66dB(A)
46HP class/130.0kW/140.0kW/921kg/66dB(A)
48HP class/135.0kW/142.5kW/921kg/66dB(A)

Footprint 2.86m²

Specification Notes

(Note 1) The cooling and heating performances are the values when combined with our specified indoor units.

[Cooling: 27°C DB/19°C WB indoor side, 35°C DB outdoor side] [Heating: 20°C DB indoor side, 7°C DB/6°C WB outdoor side]

Piping Length: 7.5 Meters Piping Lift: 0 Meter

(Note 2) The electric characteristics show values of single outdoor unit.

(Note 3) The operating sound is based on the following conditions. 1 Meter from the unit service cover surface, and 1.5 Meters from floor level.

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

(Note 4) The dimensions show values when a space between outdoor units is 20 mm.

 $(Note 5) \ In \ case \ of setting \ low \ ambient \ temperature \ at \ cooling \ operation, the \ minimum \ capacity \ of \ connectable \ indoor \ unit \ should \ be \ 2.5HP.$

(Note 6) When 0.6HP indoor unit is combined , the total capacity of combined indoor units should be not over 150% against the outdoor unit capacity.

(Note 7) Refrigerant piping has some installation limitation in specific condition. Please refer to technical manual for more details.

(Note 8) When connection ratio of outdoor unit and indoor unit is over 130%, 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

(Note 10) It is recommended to follow "Recommended IDU number" to avoid the cold draft during the heating operation. Please refer to technical manual for more details.

(Note 11) Some restrictions would be applied when the height difference between outdoor units and indoor units is more than [50m: in case of ODU above IDU] or [40m: in case of IDU above ODU]. Please refer to technical manual for more details.

SPECIFICATIONS

-Specifications













air365 Max Pro

				ra-may .										
Capacity rang	ge		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				RAS-080RNCBLW	RAS-100RNCBLW	RAS-120RNCBLW	RAS-140RNCBLW	RAS-160RNCBLW	RAS-180RNCBLW	RAS-200RNCBLW	RAS-220RNCBLW	RAS-240RNCBLW	RAS-260RNCBLW	RAS-280RNCBLW
Combination of n	nodules			_	-	-	-	-	-	-	RAS-120RNCBLW	RAS-120RNCBLW	RAS-140RNCBLW	RAS-140RNCBLW
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	RAS-100RNCBLW 3N~ 380-415V 50Hz	RAS-120RNCBLW 3N~ 380-415V 50Hz	RAS-120RNCBLW 3N~ 380-415V 50Hz	RAS-140RNCBLW 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	73.5	80.0
Heating capacity			kW	25.0	31.5	37.5	45.0	47.5	56.0	63.0	69.0	77.5	82.5	90.0
Outer dimensions	s (W x D x H)		mm	975×765×1,795	975×765×1,795	1,235×765×1,795	1,235×765×1,795	1,235×765×1,795	1,625×765×1,795	1,625×765×1,795	2,230×765×1,795	2,490×765×1,795	2,490×765×1,795	2,490×765×1,795
Weight	Net weight		kg	217	217	272	307	307	350	374	272+217	272+272	307+272	307+307
	Cooling rating	SPL (Full-anechoic)	dB(A)	52	55	59	61	61	62	62	61	62	63	64
	Cooling rating	PWL	dB(A)	78	81	83	85	85	86	86	85	86	87	88
Noise	Heating rating	SPL (Full-anechoic)	dB(A)	54	57	61	62	62	63	64	63	64	65	65
Noise		PWL	dB(A)	78	81	84	86	86	88	88	86	87	88	89
	Night shift mode (noise reduction setting)	SPL (Full-anechoic)	dB(A)	50	51	55	53	54	58	60	57	58	57	56
	Power	Cooling	kW	4.50	6.11	7.44	9.15	10.61	11.66	13.30	13.55	14.88	16.59	18.30
Electric	consumption (Including IDU)	Heating	kW	5.26	6.84	8.18	10.37	12.45	12.46	14.17	15.02	16.36	18.55	20.74
characteristics	Operating	Cooling	Α	8.5	10.5	14.0	17.4	19.7	21.3	23.7	24.5	28.0	31.4	34.8
	current	Heating	Α	10.0	11.7	15.1	19.3	22.6	22.5	25.0	26.8	30.2	34.4	38.6
		Cooling EER	-	4.98	4.58	4.50	4.37	4.24	4.32	4.21	4.54	4.50	4.43	4.37
		Cooling AEER	-	4.63	4.32	4.22	3.95	3.88	3.99	3.94	4.26	4.22	4.07	3.95
Energy efficiency	Including	Cooling SEER (TCSPF)												
,	Indoor unit	Heating COP	-	4.75	4.61	4.58	4.34	3.82	4.49	4.45	4.59	4.58	4.45	4.34
		Heating ACOP	-	4.43	4.32	4.31	4.01	3.65	4.17	4.15	4.32	4.31	4.14	4.01
	Compressortuna	Heating SCOP (HSPF)		Hormetic/Carell\	Harmatic/Carall\	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hormotic/Carell)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)
Compressor	Motor output	=	kW	Hermetic(Scroll) 4.36	Hermetic(Scroll) 5.73	6.79	4.23×2	5.16×2	4.94×2	5.62×2	Hermetic(Scroll) 6.79+5.73	(6.79)×2	4.23×2+6.79	(4.23×2)×2
	Rated air volume		m³/min		181	219	256	256	362	375	219+181	219×2	256+219	256×2
Outdoor unit Fan	-		-	1	1	2	2	2	2	2	2+1	2+2	2+2	2+2
	Motor output		kW	0.27	0.34	0.24×2	0.35×2	0.35×2	0.52×2	0.58×2	0.24×2+0.34	(0.24×2)×2	0.35×2+0.24×2	(0.35×2)×2
		Gas Piping (Low Pressure)	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	Heat Recovery	Gas Piping (High/Low Pressure)	mm	15.88	19.05	22.2	22.2	22.2	22.2	22.2	25.4	25.4	25.4	28.58
		Liquid Piping	mm	9.52	9.52	12.7	12.7	12.7	15.88	15.88	15.88	15.88	19.05	19.05
	Tubing connection	on method	-	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection
Operating temperature	Cooling		°C DB	-5°C (-10°C)~52°C	-5°C (-10°C)~52°C	-5°C (-10°C)~52°C	-5°C (-10°C)~52°C	-5°C (-10°C)~52°C	-5°C (-10°C)~52°C	-5°C (-10°C)~52°C	-5°C (-10°C)~52°C	-5°C (-10°C)~52°C	-5°C (-10°C)~52°C	-5°C (-10°C)~52°C
range	Heating		°C WB	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C
Maximum Extern	al static pressure		Pa	80	80	80	80	80	80	80	80	80	80	80
Maximum Total p	iping length		m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Between ODU	Actual	m	200	200	200	200	200	200	200	200	200	200	200
	and IDU Between "Piping	Equivalent	m	225	225	225	225	225	225	225	225	225	225	225
Maximum	and each ODU sir		m	-	-	-	-	-	-	-	25	25	25	25
piping length	Between "1st bra and farthest IDU		m	100	100	100	100	100	100	100	100	100	100	100
	Between "Multi P and each connec		m	40	40	40	40	40	40	40	40	40	40	40
	Between "CH-Bo		m	40	40	40	40	40	40	40	40	40	40	40
	Between each sir	ngle module of 1 ODU	m	-	-	-	-	-	-	-	2	2	2	2
	Between ODU	ODU above IDU (*)	m	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)
Maximum	and IDUs	IDU above ODU (*)	m	110 (40)	110 (40)	110 (40)	110 (40)	110 (40)	110 (40)	110 (40)	110 (40)	110 (40)	110 (40)	110 (40)
height difference			m	40	40	40	40	40	40	40	40	40	40	40
		and indoor units		15	15	15	15	15	15	15	15	15	15	15
	Between CH-Box Between IDU after		m m	40	40	40	40	40	40	40	40	40	40	40
	Туре	er single ch-box	-	R410A	R410A	R410A	4 R410A	R410A	R410A	R410A	4 R410A	R410A	R410A	R410A
Refrigerant	Initial charge am	ount	kg	8.3	8.3	9.3	10.3	10.3	11.1	11.1	17.6	18.6	19.6	20.6
Refrigerant oil	Type	•	-	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Connected capac	city ratio	%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%
With Indoor Unit		er of connectable units	-	20 (8)	25 (10)	30 (10)	36 (16)	40 (16)	45 (16)	50 (18)	55 (20)	60 (26)	64 (26)	64 (32)
	Connectable min	nimum 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

air365 Max Pro

Specifications

Connectable minimum capacity

0.6HP class

LM LL





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Capacity rang Outdoor unit			Unit	30HP class RAS-300RNCBLW	32HP class RAS-320RNCBLW	34HP class RAS-340RNCBLW	36HP class RAS-360RNCBLW	38HP class RAS-380RNCBLW	40HP class RAS-400RNCBLW	42HP class RAS-420RNCBLW	44HP class RAS-440RNCBLW	46HP class RAS-460RNCBLW	48HP class RAS-480RNCBLW
Combination of m				RAS-160RNCBLW RAS-140RNCBLW	RAS-160RNCBLW RAS-160RNCBLW	RAS-180RNCBLW RAS-160RNCBLW	RAS-180RNCBLW RAS-180RNCBLW	RAS-200RNCBLW RAS-180RNCBLW	RAS-200RNCBLW RAS-200RNCBLW	RAS-140RNCBLW RAS-140RNCBLW	RAS-160RNCBLW RAS-140RNCBLW	RAS-160RNCBLW RAS-160RNCBLW	RAS-160RNCBLW RAS-160RNCBLW
Power supply			-	3N~ 380-415V 50Hz	RAS-140RNCBLW 3N~ 380-415V 50Hz	RAS-140RNCBLW 3N~ 380-415V 50Hz	RAS-140RNCBLW 3N~ 380-415V 50Hz	RAS-160RNCBLW 3N~ 380-415V 50Hz					
Cooling capacity			kW	85.0	90.0	95.4	100.8	106.4	112.0	120.0	125.0	130.0	135.0
Heating capacity			kW	92.5	95.0	103.5	112.0	119.0	126.0	135.0	137.5	140.0	142.5
Outer dimensions	(W x D x H)		mm	2,490×765×1,795	2,490×765×1,795	2,880×765×1,795	3,270×765×1,795	3,270×765×1,795	3,270×765×1,795	3,745×765×1,795	3,745×765×1,795	3,745×765×1,795	3,745×765×1,795
Weight	Net weight		kg	307+307	307+307	350+307	350+350	374+350	374+374	307+307+307	307+307+307	307+307+307	307+307+307
	Cooling rating	SPL (Full-anechoic)	dB(A)	64	64	65	65	65	65	66	66	66	66
		PWL	dB(A)	88	88	89	89	89	89	90	90	90	90
Noise	Heating rating	SPL (Full-anechoic)	dB(A)	65	65	66	66	67	67	67	67	67	67
		PWL	dB(A)	89	89	90	91	91	91	91	91	91	91
	Night shift mode (noise reduction setting)	SPL (Full-anechoic)	dB(A)	57	57	60	61	62	63	58	58	59	59
	Power	Cooling	kW	19.76	21.22	22.27	23.32	24.96	26.60	27.45	28.91	30.37	31.83
Electric	consumption (Including IDU)	Heating	kW	22.82	24.90	24.91	24.92	26.63	28.34	31.11	33.19	35.27	37.35
characteristics	Operating	Cooling	Α	37.1	39.4	41.0	42.6	45.0	47.4	52.2	54.5	56.8	59.1
	current	Heating	Α	41.9	45.2	45.1	45.0	47.5	50.0	57.9	61.2	64.5	67.8
		Cooling EER	-	4.30	4.24	4.28	4.32	4.26	4.21	4.37	4.32	4.28	4.24
Energy officions	Including	Cooling AEER Cooling SEER (TCSPF)	-	3.91	3.88	3.94	3.99	3.96	3.94	3.95	3.92	3.90	3.88
Energy efficiency	Indoor unit	Heating COP	-	4.05	3.82	4.15	4.49	4.47	4.45	4.34	4.14	3.97	3.82
		Heating ACOP Heating SCOP (HSPF)	-	3.82	3.65	3.91	4.17	4.16	4.15	4.01	3.88	3.76	3.65
	Compressor type	<u> </u>	-	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)						
Compressor	Motor output		kW	5.16×2+4.23×2	(5.16×2)×2	4.94×2+5.16×2	(4.94×2)×2	5.62×2+4.94×2	(5.62×2)×2	(4.23×2)×3	5.16×2+(4.23×2)×2	(5.16×2)×2+4.23×2	(5.16×2)×3
	Rated air volume	!	m³/min	256+256	256×2	362+256	362×2	375+362	375×2	256×3	256+256×2	256×2+256	256×3
Outdoor unit Fan	Number of Fan M	otors	-	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	0.35×2+0.35×2	(0.35×2)×2	0.52×2+0.35×2	(0.52×2)×2	0.58×2+0.52×2	(0.58×2)×2	(0.35×2)×3	0.35×2+(0.35×2)×2	(0.35×2)×2+0.35×2	(0.35×2)×3
		Gas Piping (Low Pressure)	mm	31.75	31.75	31.75	38.1	38.1	38.1	38.1	38.1	38.1	38.1
Main pipe size	Heat Recovery	Gas Piping (High/Low Pressure)	mm	28.58	28.58	28.58	28.58	31.75	31.75 19.05	31.75	31.75	31.75 19.05	31.75
	Tubing connection	Liquid Piping	mm	19.05 Welding connection	19.05 Welding connection	19.05 Welding connection	19.05 Welding connection	19.05 Welding connection	Welding connection	19.05 Welding connection	19.05 Welding connection	Welding connection	19.05 Welding connection
Operating	Cooling	metilou	°C DB	-5°C (-10°C)~52°C	-5°C (-10°C)~52°C	-5°C (-10°C)~52°C	-5°C (-10°C)~52°C						
temperature	Heating		°C WB	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C>-15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C
maximum Externa			Pa	80	80	80	80	80	80	80	80	80	80
Maximum Total pi	· · · · · · · · · · · · · · · · · · ·		m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Maximum Total pi		Actual	m	200	200	200	200	200	200	200	200	200	200
	Between ODU and IDU	Equivalent	m	225	225	225	225	225	225	225	225	225	225
Maximum	Between "Piping and each ODU si	connection kit" ngle module	m	25	25	25	25	25	25	25	25	25	25
piping length	Between "1st bra and farthest IDU		m	100	100	100	100	100	100	100	100	100	100
	Between "Multi I	ted IDU	m	40	40	40	40	40	40	40	40	40	40
	Between "CH-Bo		m	40	40	40	40	40	40	40	40	40	40
		ngle module of 1 ODU	m	2	2	110/50)	2	2	2	110 (50)	110/50)	110 (50)	110 (50)
	Between ODU and IDUs	ODU above IDU (*)	m	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)
Maximum	Between IDUs	IDU above ODU (*)	m m	110 (40) 40	110 (40)	110 (40) 40	110 (40) 40	110 (40)	110 (40)	110 (40) 40	110 (40)	110 (40)	110 (40)
height difference	Between CH-Box	and indoor units	m m	15	15	15	15	15	15	15	15	15	15
	Between CH-Box		m	40	40	40	40	40	40	40	40	40	40
	Between IDU afte		m	4	4	40	40	40	40	4	4	4	4
	Туре		-	R410A	R410A	R410A	R410A						
Refrigerant	Initial charge am	ount	kg	20.6	20.6	21.4	22.2	22.2	22.2	30.9	30.9	30.9	30.9
Refrigerant oil	Туре		-	FVC68D	FVC68D	FVC68D	FVC68D						
	Connected capac	city 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 Numb	er of connectable units	-	64 (32)	64 (32)	64 (32)	64 (32)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)
	(recommended r	iumper of units)		` '		1				` .			



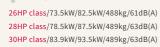


LINE UP

(HP Class/Cooling Capacity/Heating Capacity/Net Weight/Operating Sound SPL (Full-anechoic) dB(A) in cooling mode)

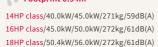






2,230mm



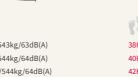




1.625mm

Footprint 1.24m²

Single module up to 24HP class!











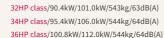






62HP class/173.4kW/194.0kW/972kg/65dB(A) 64HP class/178.9kW/202.5kW/997kg/65dB(A)





2,490mm

Footprint 1.90m²



Specifications











air365 Max

				Company of the Compan						risman,				
Capacity rang	e		Unit	8HP class	10HP class	12HP class	14HP class	16HP class	18HP class	20HP class	22HP class	24HP class	26HP class	28HP class
Outdoor unit				RAS-080RNCCLW	RAS-100RNCCLW	RAS-120RNCCLW	RAS-140RNCCLW	RAS-160RNCCLW	RAS-180RNCCLW	RAS-200RNCCLW	RAS-220RNCCLW	RAS-240RNCCLW	RAS-260RNCCLW	RAS-280RNCCLW
Combination of m	odules			-	-	-	-	-	-	-	-	-	RAS-140RNCCLW RAS-120RNCCLW	RAS-160RNCCLW RAS-120RNCCLW
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	73.5	78.5
Heating capacity			kW	25.0	31.5	37.5	45.0	50.0	56.0	63.0	69.0	77.5	82.5	87.5
Outer dimensions	(W x D x H)		mm	975×765×1,795	975×765×1,795	975×765×1,795	1,235×765×1,795	1,235×765×1,795	1,235×765×1,795	1,625×765×1,795	1,625×765×1,795	1,625×765×1,795	2,230×765×1,795	2,230×765×1,795
Weight	Net weight		kg	197	203	217	271	272	272	350	350	375	271+217	272+217
		SPL (Full-anechoic)	dB(A)	52	55	57	59	61	61	59	59	61	61	63
	Cooling rating	PWL	dB(A)	76	81	83	83	84	84	84	84	84	86	87
M. C.		SPL (Full-anechoic)	dB(A)	55	57	59	61	62	63	62	62	63	63	64
Noise	Heating rating	PWL	dB(A)	79	81	83	85	86	87	85	86	88	87	88
	Night shift mode (noise reduction setting)	SPL (Full-anechoic)	dB(A)	49	50	52	57	58	57	56	57	60	58	59
	Power	Cooling	kW	4.53	6.58	8.38	10.08	12.18	13.17	13.44	15.76	18.83	18.46	20.56
Electric	consumption (Including IDU)	Heating	kW	5.32	6.91	8.80	10.58	13.33	15.01	14.36	19.14	23.52	19.38	22.13
characteristics	Operating	Cooling	A	7.4	11.4	15.9	19.1	22.7	24.2	23.9	28.2	33.6	35.0	38.6
	current	Heating	Α	8.7	11.8	16.3	19.6	24.3	27.3	25.3	34.0	41.8	35.9	40.6
		Cooling EER	-	4.94	4.26	4.00	3.97	3.69	3.83	4.17	3.90	3.56	3.98	3.82
		Cooling AEER	-	4.53	3.97	3.80	3.75	3.54	3.65	3.89	3.68	3.40	3.77	3.65
	Including	Cooling SEER (TCSPF)												
Energy efficiency	Indoor unit	Heating COP	-	4.70	4.56	4.26	4.25	3.75	3.73	4.39	3.61	3.30	4.26	3.95
		Heating ACOP	-	4.33	4.27	4.02	3.91	3.55	3.62	4.05	3.44	3.18	3.96	3.74
		Heating SCOP (HSPF)												
Compressor	Compressor type	2	-	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)
Compressor	Motor output		kW	4.44	5.88	7.42	8.76	11.2	12.65	5.93×2	8.15×2	10.03×2	8.76+7.42	11.2+7.42
	Rated air volume	2	m³/min	175	175	198	239	256	263	329	329	348	239+198	256+198
Outdoor unit Fan	Number of Fan M	lotors	-	1	1	1	2	2	2	2	2	2	2+1	2+1
	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	0.3×2+0.43	0.35×2+0.43
	Heat Recovery	Gas Piping (Low Pressure) 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	rieat Recovery	(High/Low Pressure)	mm	15.88	19.05	22.2	22.2	22.2	22.2	22.2	25.4	25.4	25.4	28.58
		Liquid Piping	mm	9.52	9.52	12.7	12.7	12.7	15.88	15.88	15.88	15.88	19.05	19.05
	Tubing connection	on method	-	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection
Operating temperature	Cooling		°C DB	-5°C (-10°C)~48<52>°C	-5°C (-10°C)~48<52>°C	-5°C (-10°C)~48<52>°C	-5°C (-10°C)~48<52>°C	-5°C (-10°C)~48<52>°C	-5°C (-10°C)~48<52>°C	-5°C (-10°C)~48<52>°C	-5°C (-10°C)~48<52>°C	. ,	-5°C (-10°C)~48<52>°C	-5°C (-10°C)~48<52>°C
range	Heating		°C WB	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C
Maximum Externa	l static pressure		Pa	80	80	80	80	80	80	80	80	80	80	80
Maximum Total pi	ping length		m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Between ODU	Actual	m	200	200	200	200	200	200	200	200	200	200	200
	and IDU	Equivalent	m	225	225	225	225	225	225	225	225	225	225	225
Maximum piping length	Between "Piping and each ODU sin Between "1st bra	ngle module	m	-	-	-	-	-	-	-	-	-	25	25
	and farthest IDU		m	100	100	100	100	100	100	100	100	100	100	100
	Between "Multi k and each connec		m	40	40	40	40	40	40	40	40	40	40	40
	Between "CH-Bo		m	40	40	40	40	40	40	40	40	40	40	40
	Between each sir	ngle module of 1 ODU	m	-	-	-	-	-	-	-	-	-	2	2
	Between ODU	ODU above IDU (*)	m	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)
Maximum	and IDUs	IDU above ODU (*)	m	110 (40)	110 (40)	110 (40)	110 (40)	110 (40)	110 (40)	110 (40)	110 (40)	110 (40)	110 (40)	110 (40)
height difference	Between IDUs		m	40	40	40	40	40	40	40	40	40	40	40
		and indoor units	m	15	15	15	15	15	15	15	15	15	15	15
	Between CH-Box		m	40	40	40	40	40	40	40	40	40	40	40
	Between IDU afte	er single CH-BOX	m	4 P4104	4 P4104		4 D4104	4 P4100	4 D4104		4 P4104	4 P4104	4 P4100	4 D4104
Refrigerant	Type	ount	- ka	R410A	R410A	R410A	R410A 8.9	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant oil	Initial charge am	ouill	kg -	5.6 FVC68D	5.6 FVC68D	8.3 FVC68D	8.9 FVC68D	9.5 FVC68D	10.2 FVC68D	11.2 FVC68D	11.2 FVC68D	11.5 FVC68D	17.2 FVC68D	17.8 FVC68D
Reiligeratit Oit	Type Connected capac	rity ratio	%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%
With Indoor Unit		er of connectable units	-	20 (8)	25 (10)	30 (10)	36 (16)	40 (16)	45 (16)	50 (18)	55 (20)	60 (26)	64 (26)	64 (32)
	Connectable min	nimum capacity	-	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class



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Spec	ificat	ions		MS	MM			LM			LL			MMM
				7 7	7 7									
Capacity rang Outdoor unit			Unit	30HP class RAS-300RNCCLW	32HP class RAS-320RNCCLW	34HP class RAS-340RNCCLW	36HP class RAS-360RNCCLW	38HP class RAS-380RNCCLW	40HP class RAS-400RNCCLW	42HP class RAS-420RNCCLW	44HP class RAS-440RNCCLW	46HP class RAS-460RNCCLW	48HP class RAS-480RNCCLW	50HP class RAS-500RNCCLW
Combination of m				RAS-180RNCCLW RAS-120RNCCLW	RAS-180RNCCLW RAS-140RNCCLW	RAS-180RNCCLW RAS-160RNCCLW	RAS-180RNCCLW RAS-180RNCCLW	RAS-220RNCCLW RAS-160RNCCLW	RAS-220RNCCLW RAS-180RNCCLW	RAS-240RNCCLW RAS-180RNCCLW	RAS-220RNCCLW RAS-220RNCCLW	RAS-240RNCCLW RAS-220RNCCLW	RAS-240RNCCLW RAS-240RNCCLW	RAS-180RNCCLW RAS-180RNCCLW RAS-140RNCCLW
Power supply			-	3N~ 380-415V 50Hz										
Cooling capacity			kW	83.9	90.4	95.4	100.8	106.5	111.9	117.4	123.0	128.5	134.0	140.8
Heating capacity			kW	93.5	101.0	106.0	112.0	119.0	125.0	133.5	138.0	146.5	155.0	157.0
Outer dimensions	(W x D x H)		mm	2,230×765×1,795	2,490×765×1,795	2,490×765×1,795	2,490×765×1,795	2,880×765×1,795	2,880×765×1,795	2,880×765×1,795	3,270×765×1,795	3,270×765×1,795	3,270×765×1,795	3,745×765×1,795
Weight	Net weight		kg	272+217	272+271	272+272	272+272	350+272	350+272	375+272	350+350	375+350	375+375	272+272+271
	Cooling rating	SPL (Full-anechoic)	dB(A)	63	63	64	64	63	63	64	62	63	64	65
	Cooling rating	PWL	dB(A)	87	87	87	87	87	87	87	87	87	87	89
Noise	Heating rating	SPL (Full-anechoic)	dB(A)	65	65	66	66	65	66	66	65	66	66	67
Noise	rieating rating	PWL	dB(A)	89	89	90	90	89	90	91	89	90	91	91
	Night shift mode (noise reduction setting)	SPL (Full-anechoic)	dB(A)	58	60	61	60	61	60	62	60	62	63	62
	Power	Cooling	kW	21.55	23.25	25.35	26.34	27.94	28.93	32.00	31.52	34.59	37.66	36.42
Electric	consumption	Heating	kW	23.81	25.59	28.34	30.02	32.47	34.15	38.53	38.28	42.66	47.04	40.60
characteristics	Operating	Cooling	Α	40.1	43.3	46.9	48.4	50.9	52.4	57.8	56.4	61.8	67.2	67.5
	current	Heating	Α	43.6	46.9	51.6	54.6	58.3	61.3	69.1	68.0	75.8	83.6	74.2
		Cooling EER	-	3.89	3.89	3.76	3.83	3.81	3.87	3.67	3.90	3.71	3.56	3.87
		Cooling AEER	-	3.71	3.69	3.60	3.65	3.62	3.67	3.50	3.68	3.53	3.40	3.68
- · · · · · · · · · · · · · · · · · · ·	Including	Cooling SEER (TCSPF)												
Energy efficiency	Indoor unit	Heating COP	-	3.93	3.95	3.74	3.73	3.66	3.66	3.46	3.61	3.43	3.30	3.87
		Heating ACOP	-	3.77	3.74	3.59	3.62	3.49	3.52	3.35	3.44	3.30	3.18	3.70
		Heating SCOP (HSPF)												
	Compressor type		-	Hermetic(Scroll)										
Compressor	Motor output		kW	12.65+7.42	12.65+8.76	12.65+11.2	(12.65)×2	8.15×2+11.2	8.15×2+12.65	10.03×2+12.65	(8.15×2)×2	10.03×2+8.15×2	(10.03×2)×2	(12.65)×2+8.76
	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	263×2+239
Outdoor unit Fan	Number of Fan M	otors	-	2+1	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2+2
	Motor output		kW	0.38×2+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	(0.38×2)×2+0.3×2
		Gas Piping (Low Pressure)	mm	31.75	31.75	31.75	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
Main pipe size	Heat Recovery	Gas Piping (High/Low Pressure)	mm	28.58	28.58	28.58	28.58	31.75	31.75	31.75	31.75	31.75	31.75	31.75
		Liquid Piping	mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Tubing connection	on method	-	Welding connection										
Operating temperature	Cooling		°C DB		-5°C (-10°C)~48<52>°C			-5°C (-10°C)~48<52>°C		-5°C (-10°C)~48<52>°C	1 1	, ,		
range	Heating		°C WB	<-25°C> -15°C~16°C										
Maximum Extern			Pa	80	80	80	80	80	80	80	80	80	80	80
Maximum Total pi	ping length		m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Between ODU and IDU	Actual Equivalent	m m	200	200 225	200	200	200	200	200	200	200	200	200 (225)
	Between "Piping	connection kit"	m	25	25	25	25	25	25	25	25	25	25	40
Maximum piping length	and each ODU sir	nch Multi Kit"	m	100	100	100	100	100	100	100	100	100	100	60
	and farthest IDU Between "Multi K and each connect	(it"	m	40	40	40	40	40	40	40	40	40	40	40
	Between "CH-Box		m	40	40	40	40	40	40	40	40	40	40	40
	Between each sin	igle module of 1 ODU	m	2	2	2	2	2	2	2	2	2	2	2
	Between ODU	ODU above IDU (*)	m	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	110 (50)	O.U. is Higher 50(op110) O.U. is Lower 40(op110)
Maximum	and IDUs	IDU above ODU (*)	m	110 (40)	110 (40)	110 (40)	110 (40)	110 (40)	110 (40)	110 (40)	110 (40)	110 (40)	110 (40)	15
height difference	Between IDUs		m	40	40	40	40	40	40	40	40	40	40	40
	Between CH-Box	and indoor units	m	15	15	15	15	15	15	15	15	15	15	4
	Between CH-Box	es	m	40	40	40	40	40	40	40	40	40	40	40
	Between IDU afte	er single CH-Box	m	4	4	4	4	4	4	4	4	4	4	2
Refrigerant	Туре		-	R410A										
gerunt	Initial charge am	ount	kg	18.5	19.1	19.7	20.4	20.7	21.4	21.7	22.4	22.7	23.0	29.3
Refrigerant oil	Туре		-	FVC68D										
	Connected capac		%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%
With Indoor Unit	(recommended n	· · · · · · · · · · · · · · · · · · ·	-	64 (32)	64 (32)	64 (32)	64 (32)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)
	Connectable min	imum capacity	-	0.6HP class										

Specifications



LL

LMM



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Capacity rang	۵		Unit	52HP class	54HP class	56HP class	58HP class	60HP class	62HP class	64HP class
Outdoor unit			Onic	RAS-520RNCCLW	RAS-540RNCCLW	RAS-560RNCCLW	RAS-580RNCCLW	RAS-600RNCCLW	RAS-620RNCCLW	RAS-640RNCCLW
Outdoor unit	modet			RAS-180RNCCLW	RAS-180RNCCLW	RAS-220RNCCLW	RAS-220RNCCLW	RAS-240RNCCLW	RAS-220RNCCLW	RAS-240RNCCLW
Combination of mo	odules			RAS-180RNCCLW RAS-160RNCCLW	RAS-180RNCCLW RAS-180RNCCLW	RAS-180RNCCLW RAS-160RNCCLW	RAS-180RNCCLW RAS-180RNCCLW	RAS-180RNCCLW RAS-180RNCCLW	RAS-220RNCCLW RAS-180RNCCLW	RAS-220RNCCLW RAS-180RNCCLW
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
Cooling capacity			kW	145.8	151.2	156.9	162.3	167.8	173.4	178.9
Heating capacity			kW	162.0	168.0	175.0	181.0	189.5	194.0	202.5
Outer dimensions	(W x D x H)		mm	3,745×765×1,795	3,745×765×1,795	4,135×765×1,795	4,135×765×1,795	4,135×765×1,795	4,525×765×,1795	4,525×765×,1795
Weight	Net weight		kg	272+272+272	272+272+272	350+272+272	350+272+272	375+272+272	350+350+272	375+350+272
	Cooling rating	SPL (Full-anechoic)	dB(A)	66	66	65	65	66	65	65
	Cooting rating	PWL	dB(A)	89	89	89	89	89	89	89
Noise	Heating rating	SPL (Full-anechoic)	dB(A)	68	68	67	68	68	67	68
Noise		PWL	dB(A)	92	92	91	92	92	91	92
	Night shift mode (noise reduction setting)	SPL (Full-anechoic)	dB(A)	62	62	62	62	63	62	63
	Power	Cooling	kW	38.52	39.51	41.11	42.10	45.17	44.69	47.76
Electric	consumption	Heating	kW	43.35	45.03	47.48	49.16	53.54	53.29	57.67
characteristics	Operating	Cooling	Α	71.1	72.6	75.1	76.6	82.0	80.6	86.0
	current	Heating	Α	78.9	81.9	85.6	88.6	96.4	95.3	103.1
		Cooling EER	-	3.79	3.83	3.82	3.86	3.71	3.88	3.75
		Cooling AEER	-	3.62	3.65	3.63	3.66	3.55	3.67	3.56
F	Including	Cooling SEER (TCSPF)								
Energy efficiency	Indoor unit	Heating COP	-	3.74	3.73	3.69	3.68	3.54	3.64	3.51
		Heating ACOP	-	3.60	3.62	3.53	3.55	3.43	3.49	3.38
		Heating SCOP (HSPF)								
Compressor	Compressor type		-	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)
Compressor	Motor output		kW	(12.65)×2+11.2	(12.65)×3	8.15×2+12.65+11.2	8.15×2+(12.65)×2	10.03×2+(12.65)×2	(8.15×2)×2+12.65	10.03×2+8.15×2+12.65
	Rated air volume		m³/min	263×2+256	263×3	329+263+256	329+263×2	348+263×2	329×2+263	348+329+263
Outdoor unit Fan	Number of Fan M	otors	-	2+2+2	2+2+2	2+2+2	2+2+2	2+2+2	2+2+2	2+2+2
	Motor output		kW	(0.38×2)×2+0.35×2	(0.38×2)×3	0.4×2+0.38×2+0.35×2	0.4×2+(0.38×2)×2	0.47×2+(0.38×2)×2	(0.4×2)×2+0.38×2	0.47×2+0.4×2+0.38×2
		Gas Piping (Low Pressure)	mm	38.1	38.1	44.45	44.45	44.45	44.45	44.45
Main pipe size	Heat Recovery	Gas Piping (High/Low Pressure)	mm	31.75	31.75	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
	Tubing connectio	n method	-	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection
Operating	Cooling		°C DB	-5°C (-10°C)~48<52>°C	-5°C (-10°C)~48<52>°C	-5°C (-10°C)~48<52>°C	-5°C (-10°C)~48<52>°C	-5°C (-10°C)~48<52>°C	-5°C (-10°C)~48<52>°C	-5°C (-10°C)~48<52>°C
temperature range	Heating		°C WB	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C	<-25°C> -15°C~16°C
Maximum Externa	l static pressure		Pa	80	80	80	80	80	80	80
Maximum Total pip	ping length		m	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Between ODU	Actual	m	200 (225)	200 (225)	200 (225)	200 (225)	200 (225)	200 (225)	200 (225)
	and IDU	Equivalent	m	100	100	100	100	100	100	100
Maximum	Between "Piping and each ODU sin	gle module	m	40	40	40	40	40	40	40
piping length	Between "1st bra and farthest IDU Between "Multi K		m	60	60	60	60	60	60	60
	and each connect		m	40	40	40	40	40	40	40
	Between "CH-Box	t" to each IDU	m	40	40	40	40	40	40	40
	Between each sin	gle module of 1 ODU	m	2	2	2	2	2	2	2
	Between ODU and IDUs	ODU above IDU (*) IDU above ODU (*)	m m			O.U. is Higher 50(op110) O.U. is Lower 40(op110)		O.U. is Higher 50(op110) O.U. is Lower 40(op110)	O.U. is Higher 50(op110) O.U. is Lower 40(op110) 15	O.U. is Higher 50(op110) O.U. is Lower 40(op110)
Maximum	Rotwoon IDIIs	IDO above ODO ()		40	40	40	40	40	40	40
height difference	Between IDUs Between CH-Box	and indoor units	m m	40	4	40	40	40	40	4
	Between CH-Box		m m	40	40	40	40	40	40	40
	Between IDU afte		m	2	2	2	2	2	2	2
	Туре	i single cil-box	-	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant	Initial charge amo	ount	kg	29.9	30.6	30.9	31.6	31.9	32.6	32.9
Refrigerant oil	Type	zunt	- s	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
gerant Oit	Connected capac	ity ratio	%	50~200%	50~200%	50~150%	50~150%	50~150%	50~150%	50~150%
With Indoor Unit		er of connectable units	-	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)
	Connectable min		-	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)

Madelman	Applic	able Outdoor Unit		Demondo
Model name	Combined X moduled	air365 Max Pro	air365 Max	Remarks
MC-NP21SA1	2	22 to 40 HP	-	for Gas : 1
MC-NP22TA	2	-	24 to 48 HP	for Liquid : 1
MC-NP30SA1	2	42 to 48 HP	-	for Gas: 2
MC-NP31TA	3	-	50 to 64 HP	for Liquid : 2

*For Heat Recovery (3 Pipes)

Model name	Applicable Outdoor Unit			
	Combined X moduled	air365 Max Pro	air365 Max	Remarks
MC-NP21SX1	2	22 to 40 HP	-	for Low PRESS. Gas : 1
MC-NP22TX		-	24 to 48 HP	for High/Low PRESS. Gas : 1 for Liquid : 1
MC-NP30SX1	3	42 to 48 HP	-	for Low PRESS. Gas : 2
MC-NP31TX		-	50 to 64 HP	for High/Low PRESS. Gas : 2 for Liquid : 2

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 64

(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

Header Branch

Model Name	Total Indoor Unit HP	No. of Header branches
MH-NP224A	8HP to less	4
MH-NP288A	10HP to less	8

*For Heat Recovery (3 Pipes)

Line branch

(First branch)

Model Name	Outdoor Unit HP
MW-NP282X3	8~10
MW-NP452X3	12 to 16
MW-NP562X3	18 ~ 20
MW-NP692X3	22 ~ 24
MW-NP902X3	26 to 54
MW-NP2682X3	56 to 64

(After First Branch)

Model Name	Total Indoor Unit HP
MW-NP142X3	< 5.99
MW-NP282X3	6 to 11.99
MW-NP452X3	12 to 17.99
MW-NP562X3	18 to 21.99
MW-NP692X3	22 to 25.99
MW-NP902X3	26 to 55.99
MW-NP2682X3	≧56

Header Branch

Model Name	Total Indoor Unit HP	No. of Header branches
MH-NP288A	10HP to less	8

Accessories

1) Air Outlet Duct Kit





Air Outlet Duct Kit (Available upon order) S cabinet M cabinet FDK-TP20B FDK-TP20C L cabinet

2) Protection Net



	Protection Net	
	Back	Right & LeftSide
S cabinet	PN-TP30BA	PN-TP30LR x 2
M cabinet	PN-TP30BB	PN-TP30LR x 2
Licabinet	PN-TP30BC	PN-TP30LR v 2

3) Air Inlet Grille





PSN-TP30BA L cabinet PSN-TP30BC PSN-TP30LR x 2





Comfort first

For 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.

INDOOR UNITS

68	Line-up summary			
69	Our key indoor features			
77	Indo	Indoor Air Quality		
81	Solu	Solutions		
	81	Ducted units		
	84	High ESP [RPI-FSR] (DC) High ESP [RPIM-FSR] (DC)		
	85	High ESP [RPIH-HNAUN1Q] (AC) High ESP [RPIH-HNDUSQ] (DC)		
	86	Compact [RPIZ-HNDTS1Q] (DC) Compact [RPIZ-HNDTS1Q] (DC)		
	87	Ceiling cassettes		
	89	Silent-Iconic™ (4-way cassette design panel)		
	91	4-way cassette [RCI-FSRP, RCI-FSKDN1Q] (DC)		
	92	4-way compact cassette [RCIM-FSRE] (DC)		
	93	2-way cassette [RCD-FSR] (DC)		
	94	1-way cassette [RCS-FSR] (DC)		
	95	Other indoor units		
	97	Wall mounted [RPK-FSRM, RPK-FSRHM] (DC)		
	98	Floor/Ceiling convertible [RPFC-FSNQ] (AC)		
	99	Ceiling suspended [RPC-FSR] (DC)		
	100	Floor exposed [RPF-FSN2E] (AC)		
	100	Floor concealed [RPFI-FSN2E] (AC)		
101	Specifications & accessories			



Line-up summary

Over 18 types available!

DUCTED | The ultimate invisibility.













CASSETTE | Consistent air reaching every corner of a room.













FLOOR/CEILING CONVERTIBLE (AC)



CEILING SUSPENDED (DC)

OTHERS | Minimal installation or retrofit works.



WALL MOUNTED (DC)









FLOOR EXPOSED (AC)



Our key indoor features

Hitachi air, making a difference.

EXCLUSIVE

GENTLECOOL (FOR COOLING OPERATION)



RPIM-FSR













RPK-FSRHM



PC-ARFG1

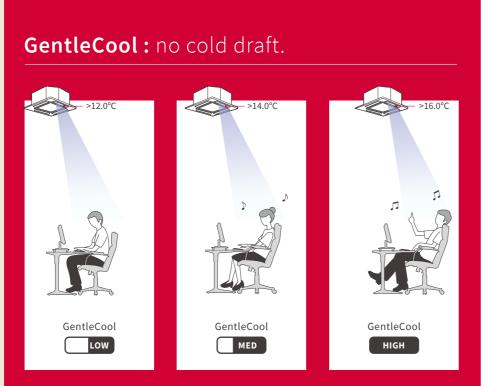
Set not only your desired room temperature, but the cooled air temperature!

Without GentleCool, the unit might blow cooler air than expected when adjusting the indoor air temperature, causing a cool draft sensation at the beginning of operation.

With GentleCool, users have control over how discharged air reaches a preferred temperature setting, ensuring a smoother cooling down effect.

GentleCool might affect the speed of the room's cooling down to the set temperature.





EXCLUSIVE

CROWD-SENSE: PREDICTIVE ADJUSTMENT TO OCCUPANCY VARIATIONS







P-AP160NAE2

RCI-FSKDN10 P-AP160NAE2 OPT-EZJ01

PC-ARFG1

Ideal for meeting rooms, restaurants, museums and other venues experiencing rapid changes of occupancy.

With conventional air conditioning, the arrival of more occupants creates new sources of heat and may naturally disrupt indoor thermal comfort. With Crowd-Sense predictive control, enjoy a stable indoor temperature whenever the size of the crowd changes.

- Hitachi Twin-Sense cassette detects the crowd's arrival or departure.
- Using AI, the cassette can anticipate the addition or reduction of human heat sources and immediately adjusts the air conditioning accordingly.

Crowd-Sense action during cooling. TRADITIONAL (!) becomes too high. b) The air conditioning power increases after detection of too hot room temperature. (!) CROWD-SENSE PREDICTIVE CONTROL a) Predicts and anticipates room Proactively increases air conditioning power to compensate for additional human heat sources. b) Room temperature remains stable. Crowd-Sense action during heating. TRADITIONAL (!)CONTROL becomes too high. b) The air conditioning thermal operation turns off after detection of too hot room temperature. CROWD-SENSE (!) PREDICTIVE CONTROL a) Predicts and anticipates room temperature rise. numan heat sources

- Crowd-Sense may not be effective or might be less effective in the following cases:
- Crowd-Sense may not be enective or might be less enective in the lonowing cases.

 Multiple indoor units are in operation in the same zone.

 The difference between the radiant temperature of the room (floor and walls) and the radiant temperature of the human body is minimal.

 The room temperature is high before operation.

 During the heating process, when the number of occupants decreases.

Our key indoor features

Hitachi air, making a difference.

FEETWARM (FOR HEATING OPERATION)



RCI-FSRP P-AP160NAE2



P-AP160NAE2 OPT-EZJ01



PC-ARFG1

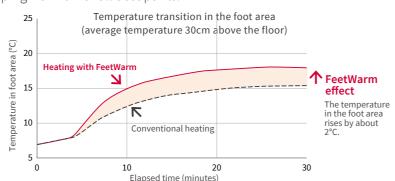
Head to toe comfort during winter.

Intelligent heated air distribution, tailored for the human body.

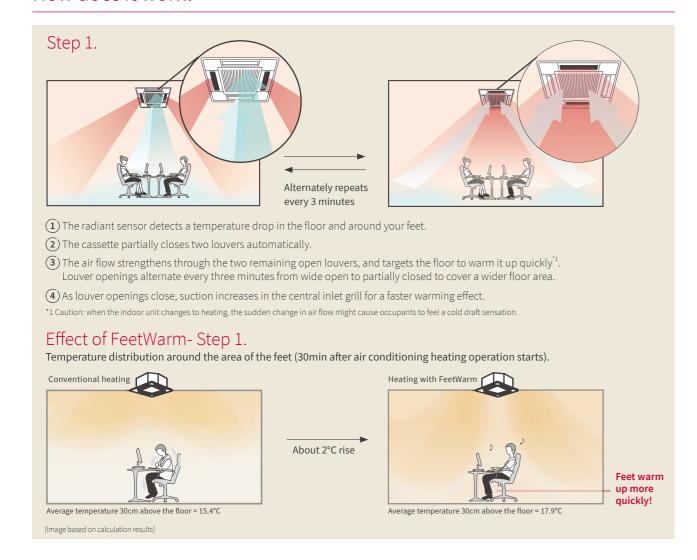
FeetWarm is complex yet effortless comfort function integrating various parameters together. Available in our Twin-Sense cassette, it prevents the natural effect of cold air sinking and hot air rising, to create enveloping warmth for all occupants.

FeetWarm's boasts 4 intelligent features: • Thanks to the Twin-Sense radiant sensor, it can detect heat stratification effects inside the room, which usually cause the floor and lower levels to be cooler. • A 2-step action to first create consistent

- warmth, then to maintain it. • Advanced heat air flow optimization, by sophisticated control of the 4-way cassette's individual louvers.
- •The lower levels of the room (floor level, feet level, leg level) reach desired temperatures, for total comfort.



How does it work?

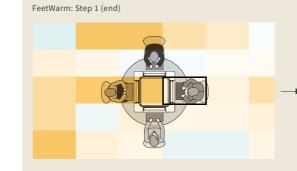


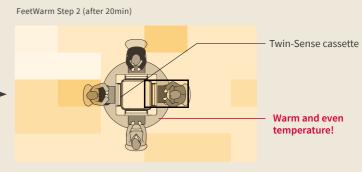


Step 2.

- (1) When the radiant temperature sensor detects that the lower level is no longer cold, FeetWarm shifts to its second step for a more even temperature everywhere in the room.
- (2) One louver remains closed.
- (3) Three remaining open louvers follow Auto-Swing air flow direction, continuously moving up/down. This leads to faster circulation of the warm air in all areas of the room.
- (4) Suction of colder air remains facilitated thanks to the one partially closed louver.

Effect of FeetWarm- Step 2.





See simulation result under the following conditions above. Unit capacity: 8.0kW, room size: "height 3.2m, length 6.3m, width 6.3m", indoor initial temperature: 7 °C, outdoor temperature: 7 °C, indoor airlow temperature: 30 °C for 0-5 minutes, Gradually rise from 30 °C to 40 °C after 5 minutes, Multi-function remote control setting: Airflow heat control "effective / long".

(Note) The effect varies depending on the size of the room and the load.

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Our key indoor features

Hitachi air, making a difference.

FLOORSENSE COOL (FOR COOLING OPERATION)





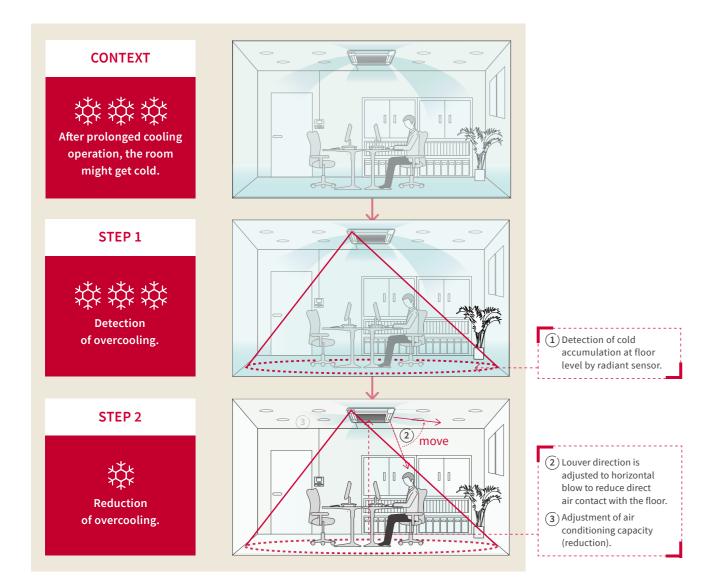


P-AP160NAE2 P-AP160NAE2 OPT-EZJ01

Prevents floor overcooling.

When the room has undergone prolonged cooling, the floor may overcool, due to cold air sinking below layers of warmer air. The radiant sensor can detect when the floor becomes too cold. The air conditioning automatically blows softer to prevent overcooling.*1

*1 When a group of people return to the room or the room temperature rises due to sunlight, the cooling operation returns to normal.



CHOICE OF DIRECT OR INDIRECT AIR FLOW







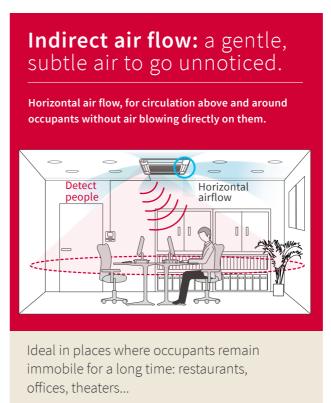
P-AP160NAE2

P-AP160NAE2

Want to feel the air? Or do you prefer imperceptible air? Choose the preferred air sensation and let the air conditioner adjusts the louver direction to your liking.

Our 4-zone motion sensor divides the room into 4 areas and can detect presence in each of them.

- Choose Direct air flow: the Twin-Sense cassette will target the corners with human activity.
- Choose Indirect air flow: Twin-Sense cassette will avoid the corners where occupants are detected.





Ideal in places where occupants need quick warm up or cool down: entrance areas and corridors, hotel lobby...

When room vacancy is detected, the air is directed in the way the controller (PC-ARFG) is set up. (Note) 4-zone motion sensor may not be effective in the following cases:

- If the room is occupied but the movement is minimal, the system might consider the room as vacant.

- If an object with a temperature different to the surrounding is in motion, it might be considered as human presence.

Our key indoor features

Hitachi air, making a difference.

HOTEL SETBACK











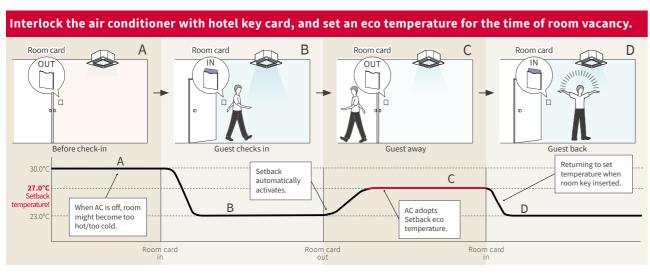




RPI-FSR RPIM-FSR

RPK-FSRHM

PC-ARFG1



AUTO-SAVE (WITH MOTION SENSOR)



RPIM-FSR

(SOR-NEZ)







OPT-EZJ01





(SOR-NEC)





(SOR-NED)



(SOR-NES)









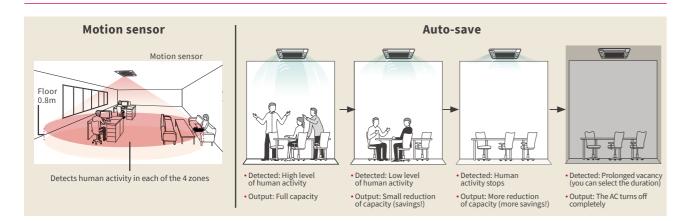
(SOR-NEP)

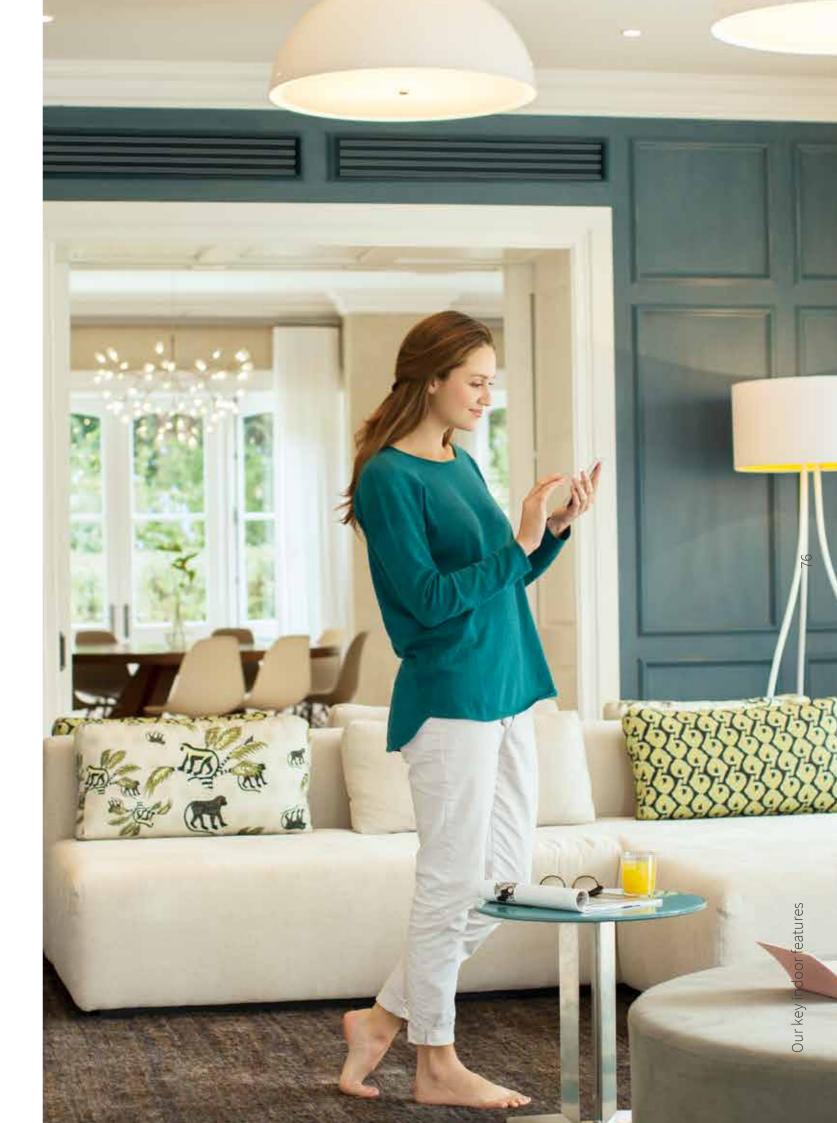
PC-ARFG1

Save more energy while improving comfort!

When adding a motion sensor to the indoor unit, auto-save function will adjust the air conditioning output to the human activity level.

HOW DOES IT WORK?





Indoor Air Quality

Live and work in harmony

Hitachi IAO accossory Ling-un

HITACHI IAC	accessory Line-up		
	01 ViroSense S filter	02 ViroSense Z2 filter	03 AQtiv-Ion Kit
Type of purchase	Now fitted as standard	Optional upgrade Model: F-160L-ZV	Optional upgrade Model: JK-LAZQ
For those who	want to save additional cost want to create the cleaner indoor environment	want to reduce the risk of secondary infection/pollution reduce spread of SARS-CoV-2 don't want to compromise airflow or additional noise	Looking for low-maintenance non- intrusive ways of purifying air without installing separate purification units Looking for both pollutant and odor reduction solutions
Key Features	 Lasts up to 5 years (12500h) Anti-virus (>99% inhibition) Anti-bacteria (>99% inhibition) Anti-mold (100% growth stop) 	Lasts up to 4 years (10000h) Quick & easy to install/change from existing filters Anti-virus (>99.7% inhibition): better than lon filter Anti SARS-CoV-2 (>99.9% inhibition) Anti-bacteria (>99% inhibition)	Lasts up to 6 years (15000h) Generates negative ions and emits through AC airflow, which binds to pollutants and odors, sending them harmlessly to the floor Plug & play; converts your ducted IDU into an air-purifying IDU Up to 96.85% capturing of Influenza virus Up to 74.90% removal of Formaldehyde

STANDARD-EQUIPPED FILTER

VIROSENSE S FILTER

We have renewed our standard air filter for some of our Hitachi VRF indoor units with leading-edge ion-technology, and, now it has THREE benefits for you & more assures indoor environment.

Our STANDARD Air Filter with Ion Purification feature, ViroSense S filter, will catch & reduce them, then help create the cleaner indoor environment.

ANTI-VIRUS



over 99% Inhibition

ANTI-BACTERIA



over 99% Inhibition



100% growth stop

Testing information

[Anti-virus test]

Test Laboratory: Guangdong Detection Center of Microbiology Test Report # 2021FM05008R01

Textiles - Determination of antiviral activity of textile products

[Anti-bacterial test]

Test Laboratory: Guangdong Detection Center of Microbiology Test Report # 2021FM05005R01

Test Procedure: Based on JIS Z 2801:2010 Antibacterial products-Test for antibacterial activity and efficacy

Test Laboratory: Guangdong Detection Center of Microbiology Test Report #2021FM05006R01

Test Procedure: Based on JIS Z 2911:2018 (A)

UNIT STANDARDIZED WITH VIROSENSE S FILTER

			4-way Cassette (RCI-FSKDN1Q)				
TWIN-SENSE 4-way Panel	Standard 4-way Panel	Standard 4-way Panel	Silent-Iconic	Silent-Iconic Auto-elevating grille	Silent-Iconic	Standardized Panel	TWIN-SENSE 4-way Panel
White	White	Black	White	White	Black	-	White
P-AP160NAE2	P-AP160NA3	P-AP160KA3	P-GP160NAP	P-GP160NAPU	P-GP160KAP	P-N23NA2	P-AP160NAE2 + OPT-F7.I01

2-way Cassette (RCD-FSR)	1-way Cassette (RCS-FSR)	Ceiling Suspended (RPC-FSR)
P-AP90DNA/P-AP160DNA	P-AP36CNA/P-AP56CNA/P-AP80CNA	RPC-1.5FSR~6.0FSR



OPTIONAL ACCESSORY FILTER

VIROSENSE Z2 FILTER



Model: F-160L-ZV

ViroSense Z2 filter can help reduce the risk of secondary infection in a room. We have confirmed the proven effect that can inhabits certain viruses attached to the air conditioner's filter already before. And in 2022, we have confirmed that it can inhibit the SARS-CoV-2 as well under the laboratory test.

BENEFITS



SARS-CoV-2 Inhibition by over 99.9%

The efficiency of the ViroSense Z2 filter against SARS-CoV-2 been confirmed with inhibition rate up to more than 99.9%.



Virus Inhibition by over 99.7%

The efficiency of the ViroSense Z2 filter against certain viruses has been confirmed with inhibition rate up to more than 99.7%.



Bacteria removal by over 99%

Efficiency of ViroSense Z2 filter against Certain types of Bacterial has been confirmed too with inhibition rate up to more than 99%.



Life span of up to 4 years

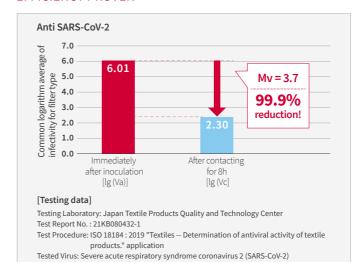
With regular maintenance and cleaning of the filter, the filter can have a life span of up to 4 years.



Quick anti-virus transformation

Your existing 4-way cassette panel can be quickly adapted for the anti-virus version, once you change your existing filter to the ViroSense Z2 filter. The same, usual attachment!

EFFICIENCY PROVEN



Anti Virus

[Testing data]

Testing Laboratory: Japan Textile Products Quality and Technology Center Test Report No.: 20KB-070036

Tested Target: Feline infectious peritonitis virus ATCC VR-2127 Test Procedure: Based on ISO 18184; Textiles -- Determination of antiviral activity of

Effect: Antiviral activity value (Mv) is at least 2.6 (>99.7% inhibition ratio)

Anti Bacteria

[Testing data]

Testing Laboratory: Kaken Test Center

Test Report: OS-20-09344-1

Test target: (1) Staphylococcus aureus ATTC 6538 (2) Klebsiella pneumoniae ATTC 4352 Test procedure: ISO 20743:2013 (Textiles - Determination of antibacterial activity of textile products)

Effect: Antibacterial activity ratio is at least (1) 2.6 (>99% death ratio) (2) 3.1 (>99.9% death ratio)

COMPATIBLE INDOOR UNITS WITH VIROSENSE Z2 FILTER

P-AP160NAE2	P-AP160NA3	P-AP160KA3	P-GP160NAP	P-GP160NAPU	P-GP160KAP	(Standard	P-AP160NAE2 + OPT-F7.I01
White	White	Black	White	White	Black	-	White
4-way Panel	4-way Panel	4-way Panel	Siterit-iconic	Auto-elevating grille	Siterit-iconic	Standardized Fariet	4-way Panel
TWIN-SENSE	Standard	Standard	Silent-Iconic	Silent-Iconic	Silent-Iconic	Standardized Panel	TWIN-SENSE
	4-way Cassette (RCI-FSKDN1Q)						

Note: for the additional filter purchase, it is treated as "service part". Please consult your distributors.

OPTIONAL ACCESSORY FILTER **AOTIV-ION KIT**



Model: JK-LZAQ

Combine your air conditioner with AQtiv-Ion Kit, and provide a better and healthier indoor environment.



Efficient combination with air conditioning

As AQtiv-Ion Kit is integrated into the air conditioning system, AQtiv-Ion Kit does not require its own fan, but uses the airflow from the air conditioner instead. That means, your new air purification device has minimal impact on the noise level and energy consumption, as it fits inside the pre-installed air conditioner.

COMMON FACTORS AFFECTING INDOOR AIR QUALITY



Various pathogenic factors including bacteria and certain viruses caused by insufficient ventilation.



Breeding of bacteria, mold and damage to household items, allergies caused by high humidity in wet season.



Formaldehyde, ammonia, benzene and a variety of volatile organic compounds released by decoration materials.



Second-hand smoking and kitchen oil fume.



Dust and mites from fabrics. such as beddings and pet dander might cause allergies.

HOW AQTIV-ION KIT WORKS











AQTIV-ION KIT TECHNOLOGY

The AQtiv-Ion Kit generates negative ions, which when released into the air, combine with the oxygen (O₂) naturally present in the air. These newly created oxygen molecules trap the impure particles, certain viruses and bacteria and deactivate them.

electrons

molecules.

collide with O₂



AQtiv-Ion Kit releases highspeed electrons into the room.



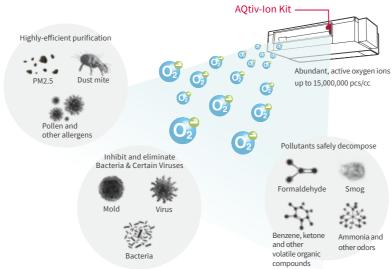
Negative oxygen ions are created, ready to capture and inhibits the air

impurities.

03

0

Fight Against The Multiple Invisibles

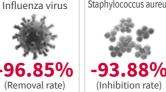


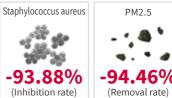
AQTIV-ION KIT DEACTIVATION PERFORMANCE

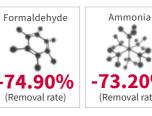












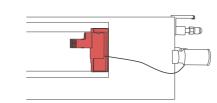
AOTIV-ION KIT APPLICATIONS



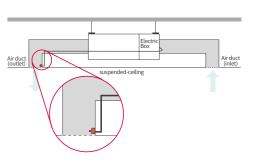
HOW TO INSTALL?

Plug and play! Up to your installation condition, you can choose from two options for AQtiv-Ion Kit to be fixed to.

(1) Inside the indoor unit (air outlet)



(2) Inside the air duct (air outlet)



TECHNICAL SPECIFICATIONS

JK-LZAQ
1 meter
220~240V, 50/60Hz
(Max) 3W
-10~50 °C
20~80%RH
15,000,000 pcs/cc
CE/CB

TESTING

[Escherichia coli] [Staphylococcus aureus]

Laboratory	Guangdong Detection Center of Microbiology
Testing standard	GB 21551.3-2010 Appendix A
Test Report	2019FM10157R01
[PM2.5]	
Laboratory	Guangdong Detection Center of Microbiology
Testing standard	APIAC/LM 01-2015
Test Report	2019FM10157R02

[Influenza virus]

Laboratory	Guangdong Detection Center of Microbiology
Testing standard	Regulation of disinfection technique in healthcare
	settings <2002, 2-1-3>
Test Report	2019FM10157R03

[Formaldehyde] [Ammonia]

Laboratory	Guangdong Detection Center of Microbiology
Testing standard	QB/T2761-2006 etc
Test Report	2019FM10157R04

Please consult your Hitachi Cooling & Heating representative for more details concerning the test reports.

COMPATIBLE INDOOR UNITS WITH AQTIV-ION KIT

HIGH ESP (AC)

HIGH ESP (DC) RPIH-**HNDUSQ COMPACT (AC) RPIZ-**HNATN1Q

COMPACT (DC) RPIZ-**HNDTS1Q



(*) For RPI-8.0/10.0FSNQH, please fix the AQtiv-Ion Kit to the indoor unit air-outlet.

AIR CONDITIONING TURNED INVISIBLE!

Our 6 types of ducted units offer variety of ESP level, to facilitate integration into your project.



HIGH ESP (DC)

[RPI-FSR]

- High ESP: Up to 200Pa (2.0-6.0HP) or 230Pa (8.0HP/10HP).
 Flexible choice of air suction connection, rear or bottom.
 GentleCool available, to prevent cold draft when cooling.
- Hotel Setback available.



MEDIUM ESP (DC) [RPIM-FSR]

- *3 levels of ESP available: 50/100/150Pa.
 *Flexible choice of air suction connection, rear or bottom.
 *GentleCool available, to prevent cold draft when cooling
- Hotel Setback available.



HIGH ESP (AC)

[RPIH-HNAUN1Q]

- High ESP (90/120/180Pa).
 Slim & space saving design thanks to a height of 300mm
- Compatible with AQtiv-Ion Kit (Optional accessory)



HIGH ESP (DC)

- [RPIH-HNDUSQ]
- Single- Phase DC motor unit
 Adjustable external pressure up to 150pa
 Compatible with AQtiv-Ion Kit (Optional accessory)



COMPACT (AC)

- [RPIZ-HNATN1Q]
- 192mm height! Ideal for installations
- above closets or windows.

 Drain-pump with 900mm lift as standard optional part.
- Quiet noise level down to 20dB(A).
 Compatible with AQtiv-lon Kit (Optional accessory)



COMPACT (DC)

[RPIZ-HNDTS1Q]

- 192mm height! Ideal for installations
- above closets or windows.

 Drain-pump with 900mm lift as standard optional part.
- Quiet noise level down to 20dB(A).
- •Compatible with AQtiv-Ion Kit (Optional accessory)

FROM 2.2KW TO 28KW

Ducted indoor units	Cooling (kW)	2.2	2.8	3.6	4.0	4.3	5.0	5.6	6.3	7.1	8.0	8.4	9.0	11.2	14.0	14.2	16.0	18.0	22.4	28.0
HIGH ESP (DC) [RPI-FSR]	-							•		•	•			•	•		•		•	•
MEDIUM ESP (DC) [RPIM-FSR]	-	•	•		•			•		•	•			•	•		•			
HIGH ESP (AC) [RPIH-HNAUN1Q]												•	•	•		•	•		•	•
HIGH ESP (DC) [RPIH-HNDUSQ]																			•	•
COMPACT (AC) [RPIZ-HNATN1Q]		•	•	•	•		•	•	•	•										
COMPACT (DC) [RPIZ-HNDTS1Q]		•	•	•	•		•	•	•	•										

FEATURES COMPARISON

			HIGH ESP (DC)	MEDIUM ESP (DC)	HIGH ESP (AC)	HIGH ESP (DC)	COMPACT (AC)	COMPACT (DC)
Model								
			RPI-FSR	RPIM-FSR	RPIH-HNAUN1Q	RPIH-HNDUSQ	RPIZ-HNATN1Q	RPIZ-HNDTS1Q
	Temperature Se	etting Rate	0.5°C/1.0°C	0.5°C/1.0°C	1.0°C	1.0°C	1.0°C	1.0°C
	Fan Speed		4 taps	4 taps	3 taps	6 taps	3 taps	6 taps
	Louver Directio	n	-	-	-	-	-	-
	Individual Louv	er Setting	-	-	-	-	-	-
	Auto Louver Set	tting	-	-	-	-	-	-
\sim	Dry mode Avail	ability	•	•	•	•	•	•
	Setback (Away	Function)	•	•	-	-	-	-
COMFORT	Cold Draft Preve	ention (*1)(*4)	•	•	•	•	•	•
	Comfort setting	Control Cool Air (GentleCool) (*2)	•	•	-	-	-	-
	Direct/Indirect	louver direction in COOL	-	-	-	-	-	-
	Direct/Indirect	louver direction in HEAT	-	-	-	-	-	-
	FeetWarm air fl	ow control	-	-	-	-	-	-
	FloorSense Coo	l air flow control	-	-	-	-	-	-
	Power Saving w	rith Motion Sensor (*2)	•	•	-	-	-	-
	Outdoor Unit	Peak cut control	•	•	-	-	-	-
(4)	capacity control (*2)	Moderate control	•	•	-	-	-	-
POWER-SAVING	Indoor Unit	Indoor Unit Address	•	•	-	-	-	-
TOWER SAVING	Rotation Control (*2)	Indoor Air Temperature difference	•	•	-	-	-	-
	Automatic Fan (Operation	•	•	•	•	•	•
	AutoBoost (qui	ck function) (*2)	•	•	-	-	-	-
	Daylight Saving	Time	•	•	•	•	•	•
	Power Consum	ption visualization (*2)	•	•	-	-	-	-
MENU	Weekly Schedu	le Setting	•	•	•	•	•	•
	Power-Saving S	etting (*2)	•	•	-	-	-	-
	Filter cleaning r	eminder	•	•	•	•	•	•
9 00		Sensor Condition Check	•	•	•	•	•	•
6/1	Charle Marrie	Model Display (*2)	•	•	-	-	-	-
MAINTENANCE	Check Menu	Indoor/Outdoor PCB Check	•	•	•	•	•	•
		Alarm History Display	•	•	•	•	•	•
	Motion Sensor		SOR-NEZ	SOR-NEZ	-	-	-	-
5	Receiver Kit for	wireless remote controller	PC-ALHZ1	PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1
(0)	Drain-up mecha	anism availability	● (*3)	● (*3)	DUPI-361Q	DUPI-810AQ	● (*3)	• (*3)
OPTIONAL ACCESSORY	Air filter		F-56/90/160LI B-56/90/160LI	F-56/90/160LI B-56/90/160LI	KW-PP9/10Q	KW-PP14Q F-10LPIE F-10HPIE	KW-PP5Q KW-PP6Q	KW-PP5Q KW-PP6Q
	AQtiv-Ion Kit		-	-	•	•	•	•

 $(^{\star}1) \ \ \text{This function is utilized to prevent cold discharged air at start-up of heating operation, after}$

Advanced wired remote controller PC-ARF1 needs to be connected.
 (*2) Advanced wired remote controller PC-ARF1 needs to be connected.
 (*3) Included as standard equipment.
 (*4) Please consult your distributor.

AQtiv-Ion Kit

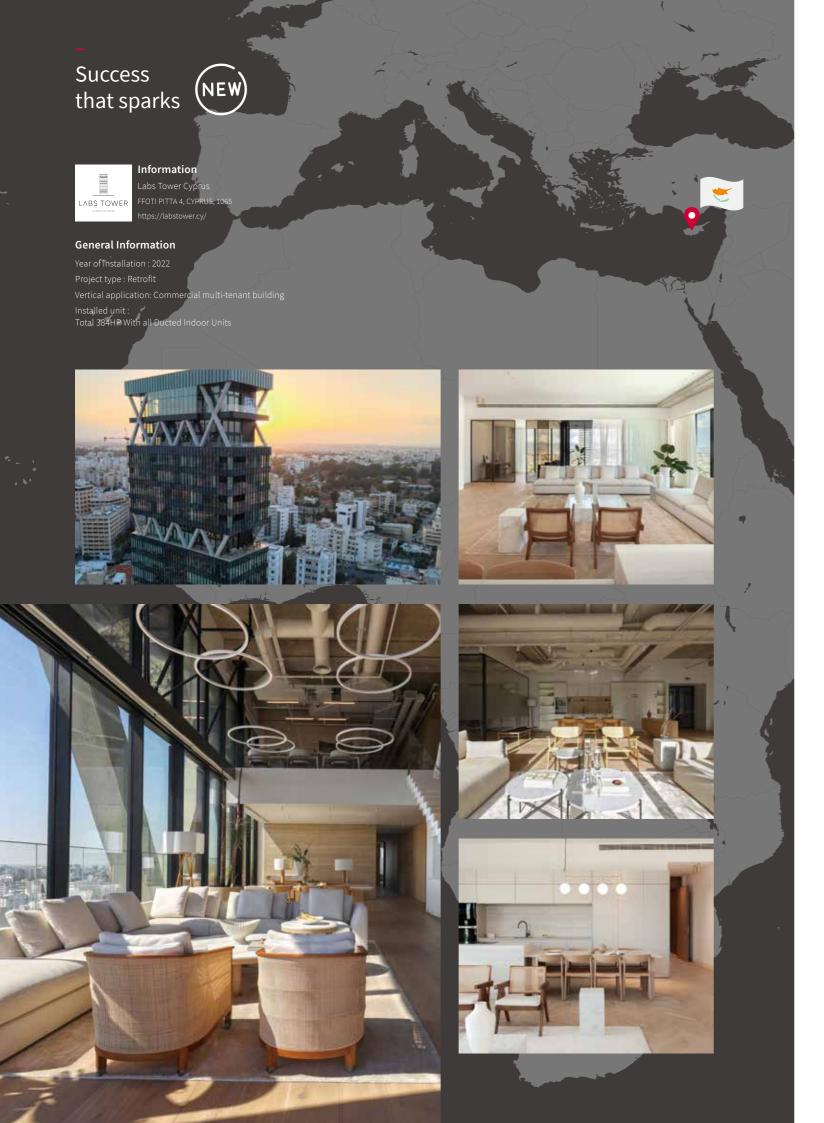


Leads to the better Indoor Air Quality

· Up to 96.85% capture of viruses and bacteria · Down to PM0.3 micro particle removal · Pollutant removal

· Active oxygen generation

· Inactivation of SARS-CoV-2 by more than 99.9%



Solutions

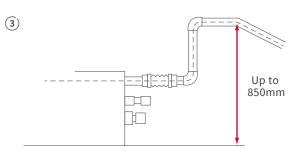
Ducted units

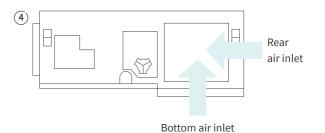
HIGH ESP HIGH EXTERNAL STATIC PRESSURE

(DC) [RPI-FSR]



- 1) Setback temperature control available, leading to better operation.
- 2) GentleCool control to ensure you are not bothered by cold.
- 3) Fits a standard condensate drain-pump with 850 mm lift.
- 4) Air Inlet can be chosen from two locations.
- 5) Energy-saving thanks to its High Efficiency DC Fan Motor & DC condensate drain-pump.
- 6) wide range of external static pressure (50Pa to 230Pa).
- 7) New side-cover for cleaning and checking condensate
- 8) The electrical box can be flipped over and mounted depending on the installation space.



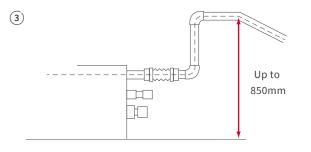


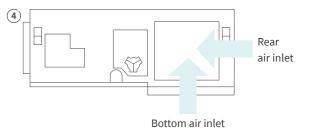
MEDIUM ESP MEDIUM EXTERNAL STATIC PRESSURE

(DC) [RPIM-FSR]



- 1) Setback temperature control available, leading to better operation.
- 2) GentleCool control to ensure you are not bothered by cold.
- 3) Fits a standard condensate drain-pump with 850 mm lift.
- 4) Air inlet can be chosen from two locations.
- 5) Energy-saving thanks to high efficiency DC fan motor & DC condensate drain-pump.
- 6) Selects from 3 settings of external static pressure from remote
- 7) New side-cover for cleaning and checking condensate drain-pan.
- 8) The electrical box can be flipped over and mounted depending on the installation space.



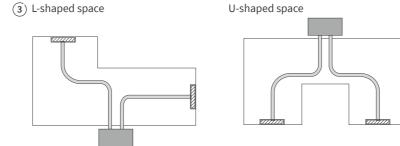


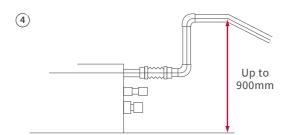
Ducted units

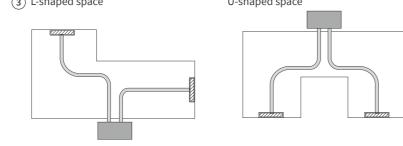


HIGH ESP HIGH EXTERNAL STATIC PRESSURE (AC) [RPIH-HNAUN1Q]

- 1) High ESP. (90/120/180Pa)
- 2) Space saving design thanks to a height of only 300mm.
- 3) Flexible installation. Options allow for multiple configurations.
- 4) Optional drain pump. Drain-up mechanism can be supplied as optional part.
- 5) Compatible with AQtiv-Ion Kit (Optional accessory)



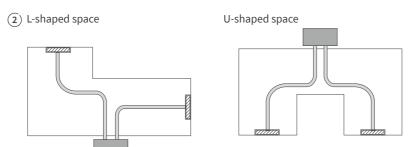


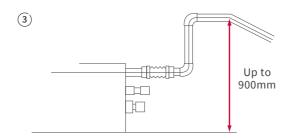




HIGH ESP HIGH EXTERNAL STATIC PRESSURE (DC) [RPIH-HNDUSQ]

- 1) High external pressure up to 150Pa
- 2) Flexible installation allowing for multiple configurations
- 3) Optional drain-pump: Drain-up mechanism can be supplied as optional accessory
- 4) Compatible with AQtiv-Ion Kit (Optional accessory)





NEW

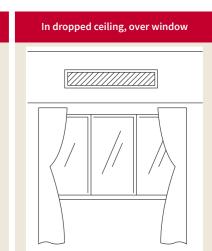
COMPACT

(AC) [RPIZ-HNATN1Q]



- 2) Drain-pump with 900mm lift as standard optional part.
- 3) Quiet operation level. (as low as 20dB(A))
- 4) Fan air flow rate up to 6 taps. (DC motor model only)
- 5) Compatible with AQtiv-Ion Kit (Optional accessory)





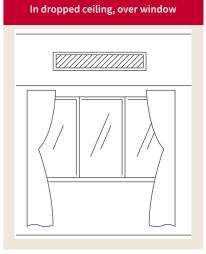
COMPACT

(DC) [RPIZ-HNDTS1Q]



- 1) Ideal for installation over closets or windows thanks to a more compact design, 192mm high.
- 2) Drain-pump with 900mm lift as standard optional part.
- 3) Quiet operation level. (as low as 22.5dB(A))
- 4) Fan air flow rate up to 6 taps. (DC motor model only)
- 5) Compatible with AQtiv-Ion Kit (Optional accessory)





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PREMIUM DESIGN & INNOVATIVE FEATURES

Meet with our newly upgraded offer, for upgraded comfort!



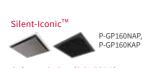


(P-AP160NAE2)

4-WAY CASSETTE (DC)

[RCI-FSRP]

- (with P-AP160NAE2)
 Greater performance & Greater comfort can be achieved (with P-GP160NAP)
- Award-winning Silent-Iconic™ to fit your indoor aesthetics.
- $\bullet \mbox{We have also Black type Silent-IconicTM, and, Gray/Beige normal panel.}$
- (with P-GP160NAPU) · Maintenance will be enormously improved by the auto-elevation grille.
- Compatible with ViroSense Z2 filter!
- · ViroSense S filter as standard!













4-WAY CASSETTE (DC) [RCI-FSKDN1Q]

- With area of air distribution with 7 directions of louvers (distribution with distance available with optional parts (duct flange))
- •Individual four-way louvres for greater comfort for
- •Ideal for a higher ceiling location for installation (up to 5.5m
- Setback temperature control available, leading to better
- •GentleCool control to ensure you are not bothered by cold
- Compatible with ViroSense Z2 filter!
- •ViroSense S filter as standard!



4-WAY COMPACT CASSETTE (DC) [RCIM-FSRE]

- Made to give you greater design flexibility as the dimensions fit 600mm×600mm architectural module ceiling specifications
- •Quiet operation level (as low as 24.5dB(A))
- Wide range of air flow rate ideal for high ceiling installation with 4.6m air blow down in cooling mode
- •Setback temperature control available, leading to better
- Motion sensor available for better energy saving
- •GentleCool control to ensure you are not bothered by



2-WAY CASSETTE (DC) [RCD-FSR]

- Motion sensor available for better energy saving
- •Ideal for a higher ceiling location for installation (up to 4.6m in cooling mode) Individually operated louvers give room occupants more comfort
- Oujet operation level (as low as 27dB(A))
- · Setback temperature control available, leading to better
- GentleCool control to ensure you are not bothered by cold draft
- •ViroSense S filter as standard!



1-WAY CASSETTE (DC)

- [RCS-FSR]
- Motion sensor available for better energy saving
- Optimum air flow conditions are created by either downward air discharge or frontal air discharge (via optional grille) or a combination of both
- Quiet operation level (as low as 27dB(A))
- Setback temperature control available, leading to better
- GentleCool control to ensure you are not bothered by cold draft
- ViroSense S filter as standard!

FROM 1.6KW TO 16KW

Ceiling cassettes	Cooling (kW)	1.6	2.2	2.8	4.0	5.6	6.3	7.1	8.0	11.2	14.0	16.0
4-WAY CASSETTE (DC) [RCI-FSRP]				•	•	•		•	•	•	•	•
4-WAY CASSETTE (DC) [RCI-FSKDN1Q]				•	•	•	•	•	•	•	•	•
4-WAY COMPACT CASSETTE (DC) [RCIM-FSRE]		•	•	•	•	•		•				
2-WAY CASSETTE (DC) [RCD-FSR]			•	•	•	•		•	•	•	•	•
1-WAY CASSETTE (DC) [RCS-FSR]			•	•	•	•		•	•			

FEATURES COMPARISON

				SSETTE TYPE TOR TYPE)	4-WAY CASSETTE COMPACT TYPE (DC MOTOR TYPE)	2-WAY CASSETTE TYPE (DC MOTOR TYPE)	1-WAY CASSETTE TY (DC MOTOR TY
Model							
			RCI-FSRP	RCI-FSKDN1Q	RCIM-FSRE	RCD-FSR	RCS-FSR
	Temperature Se	etting Rate	0.5°C/1.0°C	0.5°C/1.0°C	0.5°C/1.0°C	0.5°C/1.0°C	0.5°C/1.0°C
	Fan Speed		4 taps	4 taps	4 taps	4 taps	4 taps
	Louver Directio	n	7 (*4)	7 (*4)	7 (*4)	7 (*4)	7 (*5)
	Individual Louv	er Setting	•	•	•	•	-
	Auto Louver Se	tting	•	•	•	•	•
	Dry mode Avail	ability	•	•	•	•	•
	Setback (Away	Function)	•	•	•	•	•
~~	Cold Draft Prev	ention Availability (*1)	•	•	•	•	•
	Comfort setting	Control Cool Air (GentleCool) (*2)	•	•	•	•	•
COMFORT	Direct/Indirect	louver direction in COOL	•	•	-	-	-
	Direct/Indirect	louver direction in HEAT	•	•	-	-	-
	FeetWarm air fl		•	•	-	-	-
	FloorSense Coo	ol air flow control	•	•	-	-	-
	ViroSense S filte	er as standard	P-AP160NAE2 P-AP160NA3 P-AP160KA3 P-GP160NAP P-GP160NAPU P-GP160KAP	Standard Decoration panel P-AP160NAE2	-	P-AP90DNA P-AP160DNA	P-AP36CN P-AP56CN P-AP80CN
	Power Saving w	vith Motion Sensor (*2)	•	•	•	•	•
	Outdoor Unit	Peak cut control	•	•	•	•	•
	capacity	Moderate control	•	•	•	•	•
	control (*2)	Indoor Unit Address	•				
POWER-SAVING	Indoor Unit Rotation Control (*2)	Indoor Offic Address Indoor Air Temperature difference	•	•	•	•	•
	Automatic Fan Operation		•	•	•	•	•
		ck function) (*2)	•	•	•	•	•
	Daylight Saving	Time	•	•	•	•	•
	Power Consum	ption visualization (*2)	•	•	•	•	•
MENU	Weekly Schedu	le Setting	•	•	•	•	•
	Power-Saving S	Setting (*2)	•	•	•	•	•
	Filter cleaning r	reminder	•	•	•	•	•
23		Sensor Condition Check	•	•	•	•	•
63	Charl Many	Model Display (*2)	•	-	-	•	•
MAINTENANCE	Check Menu	Indoor/Outdoor PCB Check	•	•	•	•	•
		Alarm History Display	•	•	•	•	•
	Colored Panel	availability	(*6)	-	-	(*6)	(*6)
	Motion Sensor		P-AP160NAE2	P-AP160NAE2	SOR-NEC	SOR-NED	SOR-NES
		wireless remote controller	PC-ALH3	HR4A10NEWQ PC-ALH3	PC-ALHC1	PC-ALHD1	PC-ALHS1
		anism availability	• (*3)	• (*3)	• (*3)	• (*3)	• (*3)
	Fresh air intake	accessory	● (*7)	-	• (*7)	● (*7)	● (*7)
OPTIONAL ACCESSORY	Decoration Pan	el	P-AP160NAE2 P-AP160NA3 P-AP160KA3	P-N23NA2	P-AP56NAM P-AP56NAMR	P-AP90DNA P-AP160DNA	P-AP36CN/ P-AP56CN/ P-AP80CN/
	Design Panel Si	lent-Iconic	P-GP160NAP P-GP160NAPU P-GP160KAP	-	-	-	-
	ViroSense Z2 filte	er (optional) compatible with	P-AP160NAE2 P-AP160NA3 P-AP160KA3 P-GP160NAP P-GP160NAPU P-GP160KAP	P-N23NA2 P-AP160NAE2	-	-	-
	Air filter		F-71L-D1 F-160L-D1 B-160H3		-	F-90MD-K1 F-160MD-K1 B-90HD B-160HD	-

(*1) You can use this function to prevent cold discharged air at

- (*1) You can use this function to prevent cold discharged air at startup of the heating...
 (*2) Advanced wired remote controller PC-ARF1 needs to be connected.
 (*3) Included as standard equipment.
 (*4) 7 angles are available for individual louver setting, 5 angles only for the operation of Cooling or Dry.
 (*5) 5 steps only for the operation of Cooling or Dry.
 (*6) 3 colors are available (Beige, Grey, and Black).
 (*7) A Duct Adapter (Optional part) is available.

ViroSense S filter



New filter as standard · Lasts up to 5 years (12500h) · Anti-virus (>99% inhibition) Anti-bacteria (>99% inhibition)

·Anti-mold100% growth stop)

ViroSense Z2 filter

Optional Accessory Lasts up to 4 years (10000h) · Quick & easy to install/change from existing filters Anti-virus (>99.7% inhibition): better than Ion filter · Anti SARS-CoV-2 (>99.9%

Solutions

Ceiling cassettes

SILENT-ICONICTM 4-WAY CASSETTE DESIGN PANEL



Exclusive panel: architectural designers will love it!



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

GOOD Design

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

Tomohiko Sato Hitachi, Ltd. Product Design Department, Senior Designer

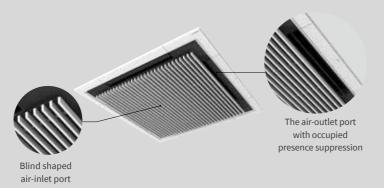


The designer graduated from University in the United Kingdom and soon after, he joined a London based design studio, vorking across a wide variety of disciplines including furniture, interior and the public realm. Currently, he dedicates himself to air conditioning design, working as a Senior Designer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















4-WAY CASSETTE

(DC) [RCI-FSRP, RCI-FSKDN1Q]

DECORATION PANEL LINE-UP

Normal	Smart	Aesthetics	Maintenance
Standard	with motion sensor + radiant temperature sensor	Color Panel Design Panel	Silent-Iconic [™] with Elevation Grille
P-AP160NA3	P-AP160NAE2	-	P-GP160NAPU
		Standard (Custom Order) Beige Gray Black Silent-Iconic™ White Black P-GP160NAP P-GP160KAP	
(H×W×D) 40×950×950(mm)	(H×W×D) 40×950×950(mm)	Standard (H×W×D) 40×950×950(mm) Silent-Iconic [™] (H×W×D) 52×950×950(mm)	(H×W×D) 52×950×950(mm)
RCI-FSRP	RCI-FSRP, RCI-FSKDN1Q	RCI-FSRP	RCI-FSRP

TWIN-SENSE CASSETTE

Adaptive comfort for real life.

EXCLUSIVE GENTLECOOL

(standard feature)
During cooling, the anti cold-draft
control function prevents
the perception of a cold draft
in the discharged air temperature.



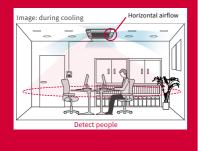
FEETWARM

(with radiant temperature sensor During heating, ensures warmth reaches and remains on the floor and around occupants' feet and legs



FLOORSENSE COOL

temperature sensor)
During cooling, based on indoor unit's new radiant sensor, the multi-louvers adjust to the precise airflow position and cooling capacity to prevent the cold air from sinking and overcooling the floor area.



EXCLUSIVE CROWD-SENSE

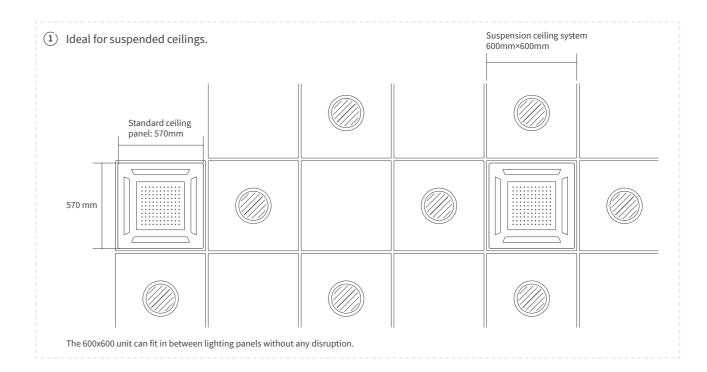
temperature sensor)
When detecting an increase of occupants in the room,
Twin-Sense anticipates the additional heat source of human bodies. The cassette immediately and pro-actively adjusts operation for a more stable indoor temperature.

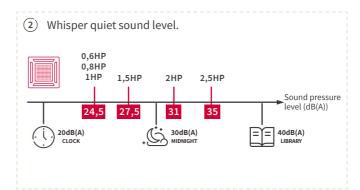


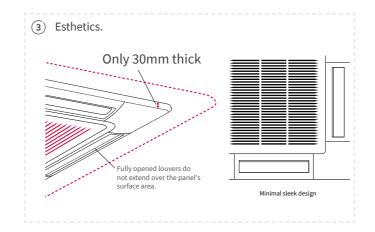
4-WAY COMPACT CASSETTE

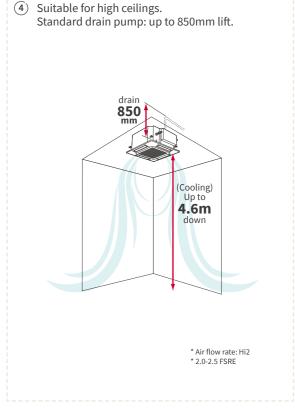
(DC) [RCIM-FSRE]











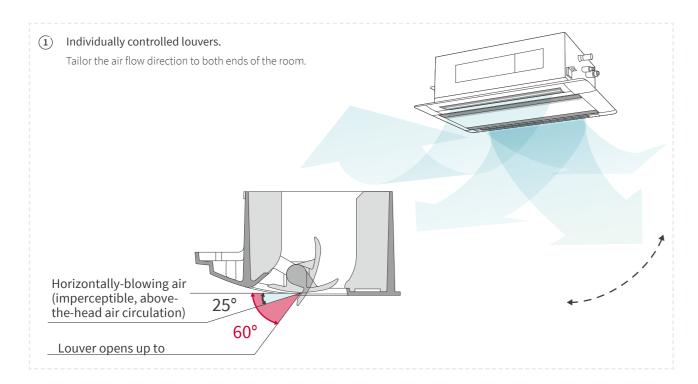
Solutions

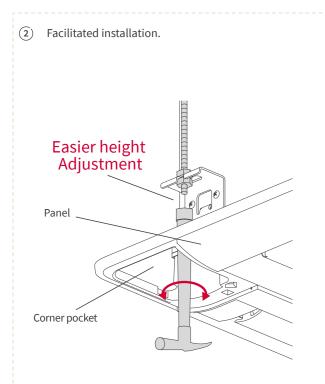
Ceiling cassettes

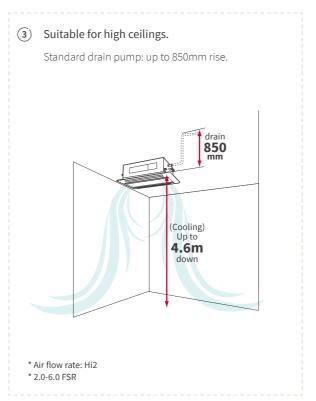


2-WAY CASSETTE

(DC) [RCD-FSR]







1-WAY CASSETTE

(DC) [RCS-FSR]



① 3 types of installation.



In corner with open louvers (typical). With

Allows for ceiling planning for lighting and interiors, suitable for installation near the window.



With closed louvers & ceiling horizontal vent.

Suitable for design that focuses on lighting and suspended ceilings, in case the unit is unable to be directly embedded in the ceiling.



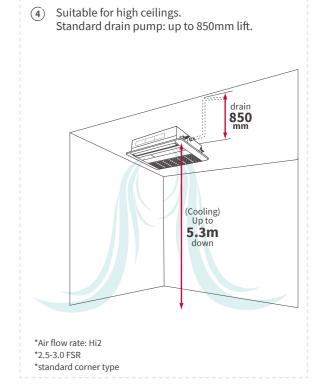
Open louver & ceiling horizontal vent.

Get two directions with 1-way cassette! Connect the cassette with a horizontal vent on the side, and create both downward air flow and horizontal air flow at the same time.

(2) Whisper quiet sound level.

Reduced sound pressure thanks to new design in fan inlet and fan.





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Solutions

Other indoor units

WIDE RANGE OF MODELS FOR MINIMAL INSTALLATION WORKS

Hitachi VRF range offers our widest choice of indoor units to give you the versatility to complement any interior.



WALL MOUNTED (DC)

[RPK-FSRM, PRK-FSRHM]

- •Simple installation procedure
- Flexible discreet design suitable for any interior
- •Setback temperature control available, leading to better
- •GentleCool control to ensure you are not both



FLOOR/CEILING CONVERTIBLE (AC)

- [RPFC-FSNQ]
- Each unit can be floor mounted or ceiling suspended
- Easy installation
- Fresh air-intake design



CEILING SUSPENDED (DC)

[RPC-FSR]

- Ideal for a higher ceiling (up to 5.6m in cooling)
- Better power-saving with optional Motion Sensor • Quiet operation level (as low as 28dB(A))
- Setback temperature control available, leading to better
- GentleCool control to ensure you are not bothered by cold draft
- ViroSense S filter as standard!



FLOOR EXPOSED (AC)

[RPF-FSN2E]

- Easy installation.
- •Space saving slim unit (220mm depth). •630mm height only, ideal for under-the-window installation.



FLOOR CONCEALED (AC)



[RPFI-FSN2E]

- Ideal for spaces without ceiling plenum, can be visually hidden in floor cavities and along the walls.
- Space saving slim unit (only 202/220mm deep).
- •Only 620mm high, ideal for under-the-window installation.

FROM 1.7KW TO 16KW

Concealed & exposed indoor units	Cooling (kW)	1.7	2.2	2.8	3.6	4.0	4.3	5.0	5.6	6.3	7.1	8.0	8.4	9.0	11.2	14.0	14.2	16.0
WALL MOUNTED (DC) [RPK-FSRM,RPK-FSRHM]		•	•	•		•			•		•	•			•			
FLOOR/CEILING CONVERTIBLE (AC) [RPFC-FSNQ]								•	•	•	•		•	•	•		•	
CEILING SUSPENDED (DC) [RPC-FSR]						•			•		•	•			•	•		•
FLOOR EXPOSED (AC) [RPF-FSN2E]				•		•			•		•							
FLOOR CONCEALED (AC) [RPFI-FSN2E]				•		•			•		•							

FEATURES COMPARISON

			WALL MOUNTED	FLOOR/CEILING CONVERTIBLE	CEILING SUSPENDED	FLOOR EXPOSED	FLOOR CONCEALED
Model							
			RPK-FSRM PRK-FSRHM	RPFC-FSNQ	RPC-FSR	RPF-FSN2E	RPFI-FSN2E
	Temperature Se	etting Rate	0.5°C/1.0°C	1.0°C	0.5°C/1.0°C	1.0°C	1.0°C
	Fan Speed		4 taps	3 taps	4 taps	3 taps	3 taps
	Louver Directio	n	7 (*5)	7 (*5)	7 (*5)	-	-
	Individual Louv	ver Setting	-	-	-	-	-
	Auto Louver Se	tting	-	-	-	-	-
\sim	Dry mode Avail	ability	•	•	•	•	•
	Setback (Away	Function)	•	-	•	-	-
COMFORT	Cold Draft Prev	ention Availability (*1)(*6)	•	•	•	•	•
	Comfort setting	Control Cool Air (GentleCool) (*2)	•	-	•	-	-
	Direct/Indirect	louver direction in COOL	-	-	-	-	-
	Direct/Indirect	louver direction in HEAT	-	-	-	-	-
	FeetWarm air fl	ow control	-	-	-	-	-
	FloorSense Coo	ol air flow control	-	-	-	-	-
	Power Saving with Motion Sensor (*2) Outdoor Unit Peak cut control		-	-	•	-	-
			•	-	•	-	-
(4)	capacity control (*2)	Moderate control	•	-	•	-	-
POWER-SAVING	Indoor Unit	Indoor Unit Address	•	-	•	-	-
TOWER SAVING	Rotation Control (*2)	Indoor Air Temperature difference	•	-	•	-	-
	Automatic Fan	Operation	•	•	•	•	•
	AutoBoost (qui	ck function)	•	-	•	-	-
	Daylight Saving	Time	•	•	•	•	•
≒	Power Consum	ption visualization (*2)	•	-	•	-	-
MENU	Weekly Schedu	le Setting	•	•	•	•	•
	Power-Saving S	Setting (*2)	•	-	•	-	-
	Filter cleaning	reminder	•	•	•	•	•
98		Sensor Condition Check	•	•	•	•	•
655	Charle Mana	Model Display (*2)	-	-	•	-	-
MAINTENANCE	Check Menu	Indoor/Outdoor PCB Check	•	•	•	•	•
		Alarm History Display	•	•	•	•	•
	Motion Sensor		-	-	SOR-NEP	-	-
	Receiver Kit for	wireless remote controller	PC-ALHZ1	PC-RLH11 (*6) PC-ALHZ1	PC-ALHP1	PC-ALHZ1	PC-RLH11 (*6) PC-ALHZ1
(C)	Drain-up mech	anism availability	-	-	DUPC-63K1 DUPC-71K1 DUPC-160K1	-	-
OPTIONAL ACCESSORY	ViroSense S filt	er	-	-	•	-	-
	Strainer kit		MSF-NP63A1 MSF-NP112A1 MSF-NP36AH1	-	-	-	-

^(*1) This function is utilized to prevent cold discharged air at start-up of heating operation, after defrosting operation, etc.
(*2) Advanced wired remote controller PC-ARF1 needs to be connected.
(*3) Included as standard equipment.
(*4) 7 steps are available by individual louver setting. 5 steps only in the operation of Cooling or Dry.
(*5) 5 steps only in the operation of Cooling or Dry.
(*6) Basic Receiver kit (PC-RLH11) is equipped with the unit in package as standard optional part with Wireless Remote Controller (PC-LH7QE).

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Solutions (Other indoor units)

Solutions

Other indoor units



WALL MOUNTED (DC) [RPK-FSRM, RPK-FSRHM]

- 1) Simple installation procedure.
- 2) Flexible discreet design suitable for any interior.
- 3) Without expansion-valve model available for 0.6-1.5HP class for more silent operation.
- 4) Hotel Setback feature available, leading to better operation.
- 5) GentleCool control to ensure you are not bothered by cold draft.



FLOOR/CEILING CONVERTIBLE

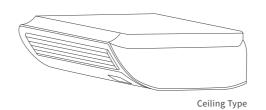
(AC) [RPFC-FSNQ]



$\widehat{\mbox{1}}$ 2-in-1 versatile unit.

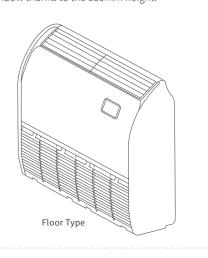
Ceiling-suspended installation.

Supplies air to a wide area. Suitable for higher ceilings.



${\it Floor-mounted}\ in stall at ion.$

Smaller footprint: only 230mm in depth. Suitable for installation beneath a window thanks to the 680mm height.



2 New air-intake design.

Equipped with air-intakes, the unit can be connected to ventilation equipment such as a All fresh air unit using a duct, providing better interior air quality.



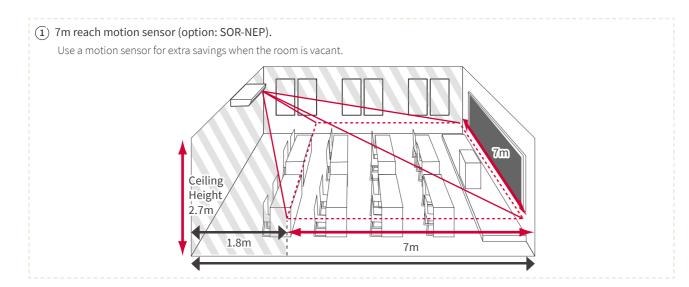
Solutions

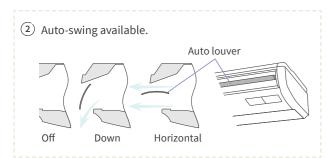
Other indoor units

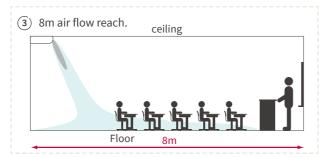


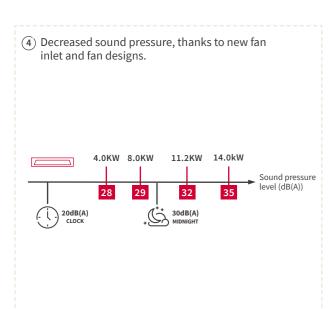
CEILING SUSPENDED

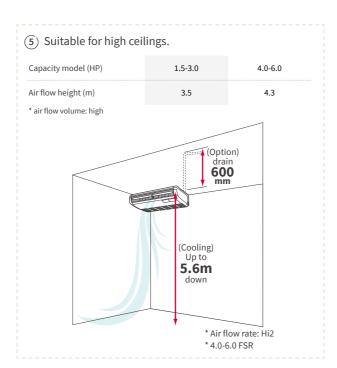
(DC) [RPC-FSR]









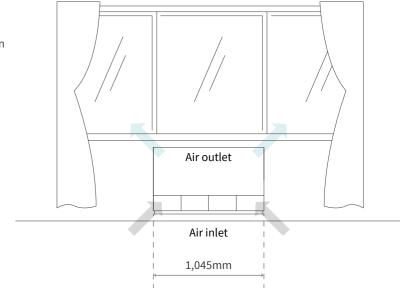


FLOOR EXPOSED

(AC) [RPF-FSN2E]



- Floor Exposed units can be installed with a minimum of disruption to walls and floors, making them an excellent retrofitting option.
- The 220mm depth means that little installation space is required.
- With a total height of up to 630mm, they are well suited to installation beneath a window.

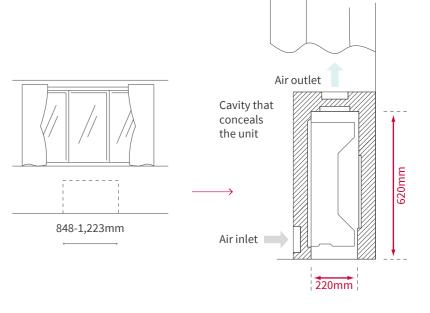


FLOOR CONCEALED

(AC) [RPFI-FSN2E]



- 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 220mm depth.



Solutions (Other indoor units)

Specifications & accessories



HIGH ESP HIGH EXTERNAL STATIC PRESSURE

(DC) [RPI-FSR]

Model			RPI-2.0FSR	RPI-2.5FSR	RPI-3.0FSR	RPI-4.0FSR	RPI-5.0FSR	RPI-6.0FSR	RPI-8.0FSR	RPI-10.0FSR
Indoor Unit Pow	er Supply				F	AC 1Ф, [220-240V/	50Hz] [220V/60Hz	z]		
Nominal Cooling	g Capacity	kW	5.6	7.1	8.0	11.2	14.0	16.0	22.4	28.0
Nominal Heatin	g Capacity	kW	6.3	8.5	9.0	12.5	16.0	18.0	25.0	31.5
Sound Pressure (Overall A Scale)		dB(A)	41/38/35/32	37/35/32/30	39/36/33/31	40/37/34/32	42/39/36/33	44/40/37/34	45/43/40/36	50/48/46/39
Sound Power Le (Overall A Scale)		dB(A)	59/56/53/50	55/53/50/48	57/54/51/49	58/55/52/50	60/57/54/51	62/58/55/52	71/69/65/59	77/75/73/65
Outer Dimensions	H×W×D	mm	300×700×800	300×1,050×800	300×1,050×800	300×1,400×800	300×1,400×800	300×1,400×800	470×1,380×1,060	470×1,380×1,060
Net Weight		kg	29	38	38	48	48	48	94	94
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan	Air Flow Rate (Hi2/Hi/Me/Lo)	m³/min (cfm)	14.5/13/ 11/9.5 (512/459/ 388/335)	18.5/16.5/ 14.5/12 (653/582/ 512/423)	20/17.5/ 15.5/13 (706/618/ 547/459)	30/26.5/ 23/20 (1,059/935/ 812/706)	33.5/29.5/ 26/22 (1,182/1,041/ 917/776)	36/31.5/ 27.5/24 (1,270/1,112/ 970/847)	63/58/ 50/38 (1050/967/ 833/633)	80/72/ 64/48 (1333/1200/ 1067/800)
External Pressur	re (*3)	Pa	50(100-200)	50(100-200)	50(100-200)	50(100-200)	50(100-200)	50(100-200)	50(100-230)	50(100-230)
Motor		W	157	190	190	259	259	259	840	840
Connections		m ³		Fla	are-Nut Connecti	on (with Flare Nu	its)		Brazing c	onnection
D-f-i	Liquid Line	mm	Ф6.35	Ф9.52	Ф9.52	Ф9.52	Φ9.52	Ф9.52	Ф9.52	Φ9.52
Refrigerant Piping	Gas Line	mm	Ф12.7	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф19.05	Ф22.2
ı ıbıııg	Condensate Drai	n	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Pac	king Measurement	m ³	0.28	0.39	0.39	0.50	0.50	0.50	0.97	0.97

Receiver kit	Advanced	PC-ALHZ1
Motion Sensor		SOR-NEZ
Condensate Drain Pump R	 (included as standard equipment) 	
A .::C .	2.0 (HP)	F-56LI
Antifungal Long-Life Filter	2.5-3.0 (HP)	F-90LI
Long-Life i ittel	4.0-6.0 (HP)	F-160LI
Eile D (2.0 (HP)	B-56LI
Filter Box for Long-Life Filter	2.5-3.0 (HP)	B-90LI
Long-Life i ittel	4.0-6.0 (HP)	B-160LI
Long-Life Filter Kit/ Long-Life Filter	8.0-10.0 (HP)	F-280LI
MotioFilter Boxn Sensor	8.0-10.0 (HP)	B-28011

1 The nominal cooling capacity is the combined capacity of the Hitachi standard split system, and is based on the JIS standard B8616.

Cooling Operation Conditions	Heating Operation Conditions
Indoor Air Inlet Temperature:27.0°C DB	Indoor Air Inlet Temperature:
19.0°C WB	Outdoor Air Inlet Temperature:
Outdoor Air Inlet Temperature: 35.0°C DB	
Piping Length:7.5 metre	Piping Length:7.5 metre
Piping Lift:0 metre	Piping Lift:0 metre

- 2. The sound pressure level is based on following conditions. 1.5 metre Beneath the Unit. With Discharge Duct (2.0 metre) and Return Duct (1.0 metre). Voltage of the power source for the indoor fan motor is 220V. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
- 3. The data for external pressure (*3) indicates "Standard Pressure Setting (High Pressure Setting1 High Pressure Setting2)" values when a filter is not used. The sound pressure level is based on the Standard Pressure Setting.



MEDIUM ESP MEDIUM EXTERNAL STATIC PRESSURE

(DC) [RPIM-FSR]

Model			RPIM-0.8FSR	RPIM-1.0FSR	RPIM-1.5FSR	RPIM-2.0FSR	RPIM-2.5FSR	RPIM-3.0FSR	RPIM-4.0FSR	RPIM-5.0FSR	RPIM-6.0FSR
Indoor Unit Pow	er Supply			АС 1Ф, [22	0-240V/50Hz] [2	220V/60Hz]					
Nominal Cooling	Capacity	kW	2.2	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
Nominal Heating	Capacity	kW	2.5	3.2	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressure (Overall A Scale)		dB(A)	32/30/28/27	33/31/29/28	38/35/32/30	40/37/34/31	37/35/33/31	38/36/33/31	40/38/35/32	42/39/36/34	43/40/37/34
Sound Power Le (Overall A Scale)		dB(A)	50/48/46/45	51/49/47/46	56/53/50/48	58/55/52/49	55/53/51/49	56/54/51/49	58/56/53/50	60/57/54/52	61/58/55/52
Outer Dimensions	H×W×D	mm	250×700×800	250×700×800	250×700×800	250×700×800	250×1,050×800	250×1,050×800	250×1,400×800	250×1,400×800	250×1,400×800
Net Weight		kg	26	26	27	27	36	36	44	44	44
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan	Air Flow Rate (Hi2/Hi/Me/ Lo)	m³/min (cfm)	8.5/7.5/ 6.5/5.5 (300/265/ 229/194)	9.5/8.5/ 7.5/6.5 (335/300/ 265/229)	13/11.5/ 10/8.5 (459/406/ 353/300)	14.5/13/ 11/9.5 (512/459/ 388/335)	18.5/16.5/ 14/12 (653/582/ 494/423)	20/17.5/ 15.5/13 (706/618/ 547/459)	30/26.5/ 23/20 (1,059/935/ 812/706)	33.5/29.5/ 26/22 (1,182/1,041/ 917/776)	36/31.5/ 27.5/24 (1270/1,112/ 970/847)
External Pressure	e (*3)	Pa	50(100-150)	50(100-150)	50(100-150)	50(100-150)	50(100-150)	50(100-150)	50(100-150)	50(100-150)	50(100-150)
Motor		W	157	157	157	157	190	190	259	259	259
Connections		m³				Flare-Nut C	onnection (with	n Flare Nuts)			
D-fri	Liquid Line	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52
Refrigerant Piping	Gas Line	mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88
riping	Condensate Dra	iin	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Pac Measurement	king	m³	0.24	0.24	0.24	0.24	0.33	0.33	0.42	0.42	0.42

Receiver kit	Advanced	PC-ALHZ1
Motion Sensor		SOR-NEZ
Condensate Drain Pump Kit		 (included as standard equipment)
A 116 1	0.8-2.0 (HP)	F-56LI
Antifungal — Long-Life Filter —	2.5-3.0 (HP)	F-90LI
Long-Life Fitter —	4.0-6.0 (HP)	F-160LI
F:11 D (0.8-2.0 (HP)	B-56LI
Filter Box for Long-Life Filter	2.5-3.0 (HP)	B-90LI
Long-Life Fitter —	4 0-6 0 (HP)	R-160LL

NOICES.
1. The nominal cooling capacity is the combined capacity of the Hitachi standard split system, and is based on the JIS standard B8616.

- 2. The sound pressure level is based on following conditions. 1.5 metre Beneath the Unit. With Discharge Duct (2.0 metre) and Return Duct (1.0 metre). Voltage of the power source for the indoor fan motor is 220%. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
- 3. The data for external pressure (*3) indicates "Standard Pressure Setting (High Pressure Setting1 High Pressure Setting2)" values when a filter is not used. The sound pressure level is based on the Standard Pressure Setting.

HIGH ESP HIGH EXTERNAL STATIC PRESSURE

(AC) [RPIH-HNAUN1Q]



Model			RPIH-3.0HNAUN1Q	RPIH-3.3HNAUN1Q	RPIH-4.0HNAUN1Q	RPIH-5.0HNAUN1Q	RPIH-6.0HNAUN10
Indoor Unit Power	Supply				AC 1Φ, [220-240V/50Hz]		
Name in al Caracaita	Cooling	kW	8.4	9.0	11.2	14.2	16.0
Nominal Capacity	Heating	kW	9.6	10.0	13.0	16.3	18.0
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	42/39/34	42/39/34	43/39/34	44/41/37	48/42/37
Outer Dimension	$H\times W\times D$	mm	300×1,175×800	300×1,175×800	300×1,175×800	300×1,475×800	300×1,475×800
Net Weight		kg	45	45	45	53	54
Refrigerant			R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	30/28/23	30/28/23	30/28/23	35.5/32/27	41/33/26
External Static Pres	ssure (*3)	Pa	120(90)	120(90)	120(90)	120(90)	120(90)
Connections				Flare-	Nut Connection (with Flare	Nuts)	
Refrigerant Piping	Liquid Line	mm	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52
Diameter	Gas Line	mm	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25
Approximate Packi	ng Volume	m³	0.40	0.40	0.40	0.49	0.49

Receiver Kit	Basic	PC-RLH11
Receiver Kit	Advanced	PC-ALHZ1
Condensate Drain Pump	Kit	DUPI-361Q
Air filter	3.0-4.0 (HP)	KW-PP9Q
Air Iitter	5.0-6.0 (HP)	KW-PP10Q
AQtiv-Ion Kit		JK-LZAQ

Notes

1. The cooling capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions Indoor Air Inlet Temperature:........27.0°C DB 19.0°C WB Outdoor Air Inlet Temperature:35.0°C DB

Heating Operation Conditions
Indoor Air Inlet Temperature:......20.0°C DB
Outdoor Air Inlet Temperature:7.0°C DB

Piping Length: 7.5 m Piping Lift:0 metre

- 2. The sound pressure level is based on following conditions. 1.4 metre Beneath the unit.

 With Discharge Duct (2.0 metre) and Return Duct (1.0 metre). Voltage of the power source for the indoor fan motor is 220V.(In case of the power source of 240V, the sound pressure level increases by about 1-2dB(A).)

 The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field
- 3. The data for external pressure (*3) indicates "Standard Pressure Setting values when a filter is not used.

HIGH ESP HIGH EXTERNAL STATIC PRESSURE

(DC) [RPIH-HNDUSQ]

Condensate

Drain Pump Kit



AOtiv-Ion Kit

DUPI-810AQ

ePM10 Filter

Filter Box

F-10HPIE

FB-10PIE

JK-LZAO



Note

The nominal cooling capacity is the combined capacity of the standard split system.

Cooling Operation Conditions Indoor Air Inlet Temperature:......27.0°C DB (*1) 19.5°C WB (*2) 19.0°C WB

Outdoor Air Inlet Temperature: 35.0°C DB Piping Length:7.5 metre Piping Lift:0 metre

Heating Operation Conditions Indoor Air Inlet Temperature:20.0°C DB Outdoor Air Inlet Temperature:7.0°C DB 6.0°C WB

Piping Length:7.5 metre Piping Lift:0 metre

- The sound pressure level is based on following conditions.
 With Discharge Duct (2.0m) and Return Duct (1.0m).
 Voltage of the power source for the indoor fan motor is 220V.
- In case of the power source of 240V, the sound pressure level increases by about 1dB.

 The above data was measured in an anechoic chamber so
- The above data was measured in an anechoic chamber s that reflected sound should be taken into consideration in the field.
- 3. The data for external pressure (*3) indicates "Standard Pressure Setting values when a filter is not used.
- 4.(*4) The noise value is 150Pa corresponding value.
- 5.(*5) The size of 8HP gas pipe is Φ 22.2mm when leaving the factory, and the diameter can be changed to 19.05mm after welding the adapter pipe.

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Specifications & accessories

Specifications & accessories



COMPACT

(DC) [RPIZ-HNDTS1Q]

Model			RPIZ- 0.8HNDTS1Q	RPIZ- 1.0HNDTS1Q	RPIZ- 1.3HNDTS1Q	RPIZ- 1.5HNDTS1Q	RPIZ- 1.8HNDTS1Q	RPIZ- 2.0HNDTS1Q	RPIZ- 2.3HNDTS1Q	RPIZ- 2.5HNDTS1Q
Indoor Unit Power	Supply				А	С 1Ф, [220-240V/	/50Hz] [220V/60Hz	<u>z</u>]		
Naminal Canasitu	Cooling	kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3	7.1
Nominal Capacity	Heating	kW	2.5	3.2	4.0	4.5	5.6	6.3	7.1	8.0
Sound Pressure Level	(6 taps)	dB(A)	33/31/28/ 25/23.5/22.5	33/31/28/ 25/23.5/22.5	33/31/28/ 25/23.5/22.5	31/30/28/ 25/22/20	36/33.5/31/ 28/24.5/22.5	36/33.5/31/ 28/24.5/22.5	37/36/33/ 30/28/25	37/36/33/ 30/28/25
Outer Dimension	H×W×D	mm	192×700×447	192×700×447	192×700×447	192×910×447	192×1,180×447	192×1,180×447	192×1,180×447	192×1,180×447
Net Weight		kg	17	17	17	20	24	24	24	24
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(6 taps)	m³/min	8.5/8/7/ 6/5.5/5	8.5/8/7/ 6/5.5/5	8.5/8/7/ 6/5.5/5	10/9/8/ 7.5/6.5/6	14.5/13.2/11.8/ 10.5/9.2/8.0	14.5/13.2/11.8/ 10.5/9.2/8.0	16.5/15/13/ 12/10/9	16.5/15/13/ 12/10/9
External Static Pres	sure (*3)	Pa	10(0-10-30)	10(0-10-30)	10(0-10-30)	10(0-10-30)	10(0-10-50)	10(0-10-50)	10(0-10-50)	10(0-10-50)
Connections					Fla	are-Nut Connect	ion (with Flare Nu	ts)		
Refrigerant Piping	Liquid Line	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52
Diameter	Gas Line	mm	Ф12.70	Ф12.70	Ф12.70	Ф12.70	Ф15.88	Ф15.88	Ф15.88	Ф15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packi	ng Volume	m³	0.142	0.142	0.142	0.15	0.18	0.18	0.18	0.18

Air filter

Receiver Kit	Basic	PC-RLH11		
Receiver Kit	Advanced	PC-ALHZ1		
Condensate Drain Pump R	Kit	- (included as standard equipment)		

The cooling capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions Indoor Air Inlet Temperature:......27.0°C DB 19.0°C WB Outdoor Air Inlet Temperature:35.0°C DB

Piping Length:7.5 metre Piping Lift:0 metre

conditions.

Heating Operation Conditions
Indoor Air Inlet Temperature:......20.0°C DB
Outdoor Air Inlet Temperature:7.0°C DB
6.0°C WB

KW-PP6Q AQtiv-Ion Kit JK-LZAQ

The sound pressure level is based on following conditions. 1.4 metre Beneath the unit. With Discharge Duct (2.0 metre) and Return Duct (1.0 metre). Voltage of the power source for the indoor fan motor is 220V.

0.8-1.5 (HP)

(In case of the power source of 240V, the sound pressure level increases by about 1-2dB(A).) The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

KW-PP5Q

3. The data for external pressure (*3) indicates "Standard Pressure Setting values when a filter



COMPACT

(AC) [RPIZ-HNATN1Q]

Model			RPIZ- 0.8HNATN1Q	RPIZ- 1.0HNATN1Q	RPIZ- 1.3HNATN1Q	RPIZ- 1.5HNATN1Q	RPIZ- 1.8HNATN1Q	RPIZ- 2.0HNATN1Q	RPIZ- 2.3HNATN1Q	RPIZ- 2.5HNATN1Q
Indoor Unit Power	Supply					АС 1Ф, [220	-240V/50Hz]			
Nominal Capacity	Cooling	kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3	7.1
Nominal Capacity	Heating	kW	2.5	3.2	4.0	4.5	5.6	6.3	7.1	8.0
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	30/23/20	30/23/20	34/25/22	32.5/26/23	34/26/25	34/26/25	37/29/27	37/29/27
Outer Dimension	H×W×D	mm	192×700×447	192×700×447	192×700×447	192×910×447	192×1,180×447	192×1,180×447	192×1,180×447	192×1,180×447
Net Weight		kg	17	17	17	21	27	27	28	28
Refrigerant			R410A							
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	9.5/6.5/5.5	9.5/6.5/5.5	9.5/6.5/5.5	10/7/6	15/10/9	15/10/9	17/10/9	17/10/9
External Static Pres	ssure (*3)	Pa	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)
Connections					Fla	are-Nut Connecti	ion (with Flare Nu	ts)		
Refrigerant Piping	Liquid Line	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52
Diameter	Gas Line	mm	Ф12.70	Ф12.70	Ф12.70	Ф12.70	Ф15.88	Ф15.88	Ф15.88	Ф15.88
Condensate Drain			VP25							
Approximate Packi	ng Volume	m³	0.142	0.142	0.142	0.15	0.18	0.18	0.18	0.18

Air filter

AQtiv-Ion Kit

Receiver Kit	Dasic	PC-REHII
Receiver NIL	Advanced	PC-ALHZ1
Condensate Drain Pump	Kit	- (included as standard equipment)

 The cooling capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Indoor Air Inlet Temperature:.....27.0°C DB

Outdoor Air Inlet Temperature: 35.0°C DB Piping Length:7.5 metre Piping Lift:0 metre

Heating Operation Conditions Indoor Air Inlet Temperature:.......20.0°C DB

1.8-2.5 (HP)

2. The sound pressure level is based on following conditions. 1.4 metre Beneath the unit.

With Discharge Duct (2.0 metre) and Return Duct (1.0 metre).

Voltage of the power source for the indoor fan motor is 220V.

(In case of the power source of 240V), the sound pressure level increases by about 1–2dB(A).)

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

KW-PP6Q JK-LZAQ

3. The data for external pressure (*3) indicates "Standard Pressure Setting values when a filter

4-WAY CASSETTE

(DC) [RCI-FSRP]









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 Powe	r Supply				A	С 1Ф, [220-240V/5	0Hz] [220V/60Hz]		
Nominal	Cooling	kW	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
Capacity	Heating	kW	3.2	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	33/30/28/27	35/31/30/27	37/32/30/27	42/36/32/28	42/36/32/28	48/43/39/33	48/45/40/35	48/46/41/37
Outer Dimension	(H×W×D)	mm	248×840×840	248×840×840	248×840×840	248×840×840	298×840×840	298×840×840	298×840×840	298×840×840
Net Weight		kg	20	21	21	22	26	26	26	26
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	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
Connections					Fla	re-Nut Connection	on (with flare Nut	s)		
Refrigerant	Liquid Line	mm	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52
Piping Diameter	Gas Line	mm	Ф12.7	Ф12.7	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88
Condensate Drain	1		VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Pack	king Volume	m ³	0.21	0.21	0.21	0.21	0.25	0.25	0.25	0.25

	Twin-Sense panel	P-AP160NAE2
Decoration panel	Standard (without sensor)	P-AP160NA3
Receiver kit	Advanced	PC-ALH3
Condensate Drain Pump	Kit	- (Standard)
Duct Adapter		PD-75A
Fresh Air Intake Kit		OACI-160K3

3-Way Outlet Parts Set		PI-160LS2
T-Pipe Connection Kit		TKCI-160K
D	1.0-2.5 (HP)	F-71L-D1
Deodorant Air Filter	3.0-6.0 (HP)	F-160L-D1
Filter Box		B-160H3
ViroSense Z2 filter		F-160L-ZV
ViroSense S filter		- (Standard)

1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor

terriperature are arracr tire rottoving corr	0100110.
Cooling Operation Conditions	
Indoor Air Inlet Temperature:	27.0°C I
·	19.0°C \
Outdoor Air Inlet Temperature:	35.0°C I
Piping Length: 7.5 metre	
Piping Lift:0 metre	

Heating Operation Conditions Indoor Air Inlet Temperature:..... Outdoor Air Inlet Temperature: ... Piping Length:7.5 metre Piping Lift:0 metre

2. The sound pressure level is based on following conditions. 1.5 metre Beneath The data in the table above was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

4-WAY CASSETTE

(DC) [RCI-FSKDN1Q]



Model			RCI- 1.0FSKDN1Q	RCI- 1.5FSKDN1Q	RCI- 2.0FSKDN1Q	RCI- 2.3FSKDN1Q	RCI- 2.5FSKDN1Q	RCI- 3.0FSKDN1Q	RCI- 4.0FSKDN1Q	RCI- 5.0FSKDN1Q	RCI- 6.0FSKDN1Q
Indoor Unit Powe	r Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]							
Nominal	Cooling	kW	2.8	4.0	5.6	6.3	7.1	8.0	11.2	14.0	16.0
Capacity	Heating	kW	3.2	4.8	6.3	7.1	8.5	9.0	12.5	16.0	18.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	33/30/28/27	35/31/30/27	37/32/30/27	42/36/32/28	42/36/32/28	42/36/32/28	48/43/39/33	48/45/40/35	48/46/41/37
Outer Dimension	(H×W×D)	mm	238×840×840	238×840×840	238×840×840	238×840×840	238×840×840	288×840×840	288×840×840	288×840×840	288×840×840
Net Weight		kg	20	21	21	22	22	26	26	26	26
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	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	27/23/18/14	37/31/24/20	37/33/26/21	37/35/28/22
Connections						Flare-Nut C	onnection (witl	n flare Nuts)			
Refrigerant	Liquid Line	mm	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52
Piping Diameter	Gas Line	mm	Ф12.7	Ф12.7	Ф12.7	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Pack	king Volume	m³	0.21	0.21	0.21	0.21	0.21	0.25	0.25	0.25	0.25

Decoration Panel	Standard	P-N23NA2
Decoration Panel	Twin-Sense panel	P-AP160NAE2 + OPT-EZJ01
Receiver Kit	Basic	HR4A10NEWQ
Receiver NIT	Advancod	DC VI H3

Condensate Drain Pump Kit	- (Standard)
ViroSense Z2 filter	F-160L-ZV
ViroSense S filter	- (Standard)

Notes:

1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions. Heating Operation Conditions Indoor Air Inlet Temperature:..... Outdoor Air Inlet Temperature: . Cooling Operation Conditions Indoor Air Inlet Temperature:....

... 27.0°C DB (80.0°F DB) 19.0°C WB (66.2°F WB) ... 35.0°C DB (95.0°F DB) Outdoor Air Inlet Temperature:

... 20.0°C DB (68.0°F DB) ... 7.0°C DB (45.0°F DB) 6.0°C WB (43.0°F WB)

2. The sound pressure level is based on following conditions. 1.5 metre Beneath the unit.

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

3. Decoration panel is included.

SILENT-ICONICTM 4-WAY CASSETTE DESIGN PANEL

FOR 4-WAY CASSETTE [RCI-FSRP]





Model	P-GP160NAP	P-GP160NAPU	P-GP160KAP
Standard/option	Design Panel Standard	Design Panel with an Elevation Grille	Design Panel Standard
Color	Natural White	Natural White	Black









4-WAY CASSETTE COMPACT

(DC) [RCIM-FSRE]

Model			RCIM-0.6FSRE	RCIM-0.8FSRE	RCIM-1.0FSRE	RCIM-1.5FSRE	RCIM-2.0FSRE	RCIM-2.5FSRE
Indoor Unit Powe	r Supply			A	С 1Ф, [230V/50Hz] [220-2	240V/50Hz] [220V/60Hz]	
Nominal	Cooling	kW	1.6	2.2	2.8	4.0	5.6	7.1
Capacity	Heating	kW	1.9	2.5	3.2	4.8	6.3	8.5
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	34/30/28/24.5	36/33/29/24.5	38/34/30/24.5	41/37/33/27.5	45/39/35/31	47/43/39/35
Outer Dimension	(H×W×D)	mm	285×570×570	285×570×570	285×570×570	285×570×570	285×570×570	285×570×570
Net Weight		kg	16	16	16	16	17	17
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	10/8.5/7.5/6	11/9.5/8/6	12/10/8.5/6	13/11/9.5/7	15/12/10/8	16/14/12/10
Connections					Flare-Nut Connectio	n (with Flare Nuts)		
Refrigerant	Liquid Line	mm	Ф6.35	Ф6.35	Φ6.35	Φ6.35	Ф6.35	Ф9.52
Piping Diameter	Gas Line	mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф15.88
Condensate Drain	1		VP25	VP25	VP25	VP25	VP25	VP25
Approximate Pac	king Volume	m³	0.13	0.13	0.13	0.13	0.13	0.13
Decoration panel			P-AP56N	AM	Motion Sensor		SOF	R-NEC
Decoration panel with Receiver kit	Adva	anced	P-AP56NA	AMR	Condensate Drain Pu	mp Kit		andard)
Receiver kit	Adv	anced	PC-ALH	C1	Duct Adapter		PU)-75C

1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions. Cooling Operation Conditions Indoor Air Inlet Temperature:....

Outdoor Air Inlet Temperature:

Heating Operation Conditions Indoor Air Inlet Temperature:...... Outdoor Air Inlet Temperature:

2. The sound pressure level is based on following conditions. 1.5 metre Beneath the unit.

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

3. RCIM-0.6FSRE cannot be connected to HNRQ series. Please refer to the technical catalogue for the details

2-WAY CASSETTE

(DC) [RCD-FSR]



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 Powe	or Cupply					۸C 1 رام ا	0-240V/50Hz] [2	20///60H-1			
	117										
Nominal	Cooling	kW	2.2	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
Capacity	Heating	kW	2.5	3.2	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	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 Dimension	(H×W×D)	mm	298×860×630	298×860×630	298×860×630	298×860×630	298×860×630	298×860×630	298×1,420×630	298×1,420×630	298×1,420×630
Net Weight		kg	23	23	25	25	25	25	39	39	39
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	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
Connections						Flare-Nut Co	onnection (with	Flare Nuts)			
Refrigerant	Liquid Line	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52
Piping Diameter	Gas Line	mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88
Condensate Drain	n		VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Pac	king Volume	m³	0.24	0.24	0.24	0.24	0.24	0.24	0.36	0.36	0.36
	0.8	-3.0 (HP)		P-AP90DNA				0.8-3.0	(HP)	F-90MD-K	1
Decoration panel —		-6.0 (HP)		P-AP160DNA				4.0-6.0	(HP)	F-160MD-F	(1
Receiver kit	Ad	lvanced		PC-ALHD1		Normal Air		0.8-3.0	(HP)	B-90HD	
Motion Sensor				SOR-NED			Filter B	4.0-6.0	(HP)	B-160HD	
Condensate Drain	n Pump Kit			- (Standard)		ViroSense	S filter			- (Standar	(b)
Duct Adapter				PD-150D							

Notes:

1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions Indoor Air Inlet Temperature:.... Outdoor Air Inlet Temperature: . Piping Length:7.5 metre Piping Lift:0 metre Heating Operation Conditions Indoor Air Inlet Temperature:..... Outdoor Air Inlet Temperature: .

2. The sound pressure level is based on following conditions. 1.5 metre Beneath the unit.

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

1-WAY CASSETTE

(DC) [RCS-FSR]

Cooling Operation Conditions Indoor Air Inlet Temperature:...



Model			RCS-0.8FSR	RCS-1.0FSR	RCS-1.5FSR	RCS-2.0FSR	RCS-2.5FSR	RCS-3.0FSR
Indoor Unit Powe	r Supply			A	С 1Ф, [220-240V/50Hz] [230	V/50Hz] [220V/60Hz]	
Nominal	Cooling	kW	2.2	2.8	4.0	5.6	7.1	8.0
Capacity	Heating	kW	2.5	3.2	4.8	6.3	8.5	9.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	34/32/29/27	36/34/31/28	40/37/33/31	42/38/35/31	43/39/36/32	43/40/37/33
Outer Dimension	(H×W×D)	mm	235×900×710	235×900×710	235×900×710	235×900×710	235×1,210×710	235×1,210×710
Net Weight		kg	25	25	26	26	33	33
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	8.5/7.5/6.5/6	9.5/8.5/7.5/6.5	13/11.5/10/8.5	14.5/13/11/9.5	18.5/16.5/14.5/12.5	20/17.5/15.5/13
Connections					Flare-Nut Connection (with Flare Nuts)		
Refrigerant	Liquid Line	mm	Ф6.35	Φ6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52
Piping Diameter	Gas Line	mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф15.88	Ф15.88
Condensate Drain	1		VP25	VP25	VP25	VP25	VP25	VP25
Approximate Pacl	king Volume	m³	0.25	0.25	0.25	0.25	0.32	0.32
	0.8-1	.0 (HP)	P-AP36C	NA	Duct Adapter		PD-	100
Decoration panel	1.5-2	.0 (HP)	P-AP56C	NA	Grille for	0.8-2.0 (HP)	DG-56	SSW1
	2.5-3	.0 (HP)	P-AP80C	NA	Front Discharge	2.5-3.0 (HP)	DG-80	SW1
Receiver kit	Adv	anced	PC-ALH:	S1	Air Outlet Chutter Diete	0.8-2.0 (HP)	PIS-5	6LS
Motion Sensor			SOR-NE	S	Air Outlet Shutter Plate	2.5-3.0 (HP)	PIS-8	30LS
Condensate Drain	n Pump Kit		- (Standa	ard)	ViroSense S filter		- (Stan	dard)
Notes:								

Heating Operation Conditions Indoor Air Inlet Temperature:..... Outdoor Air Inlet Temperature: .

Outdoor Air Inlet Temperature: Piping Length:7.5 metre Piping Lift:0 metre

2. The sound pressure level is based on following conditions. 1.5 metre Beneath the unit.

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

1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Specifications & accessories



WALL MOUNTED

(DC) [RPK-FSRM, RPK-FSRHM]

Type						Expansion Va	lve built-in type			
Model			RPK-0.6FSRM	RPK-0.8FSRM	RPK-1.0FSRM	RPK-1.5FSRM	RPK-2.0FSRM	RPK-2.5FSRM	RPK-3.0FSRM	RPK-4.0FSRM
Indoor Unit Power	Supply				-	AC 1Ф, [220-240V	/50Hz] [220V/60H	lz]		
Naminal Canacitus	Cooling	kW	1.7	2.2	2.8	4.0	5.6	7.1	8.0	11.2
Nominal Capacity	Heating	kW	1.9	2.5	3.2	4.8	6.3	8.5	9.0	12.5
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	35/32/31/29	39/35/32/30	39/35/32/30	46/40/36/33	40/37/34/31	45/42/38/35	47/44/40/35	51/48/44/39
Color						W	hite			
Outer Dimension	(H×W×D)	mm	300×790×230	300×790×230	300×790×230	300×900×230	300×1,100×260	300×1,100×260	300×1,100×260	300×1,100×260
Net Weight		kg	10	10	10	11	14.5	15	15	15
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	8/7.5/7/6	10/8/7/6.5	10/8/7/6.5	14/11/9/7.5	14.5/13/11/9.5	18.5/16.5/14/12	20/17.5/15.5/12.5	23/20/17.5/14.5
Motor			38	38	38	38	38	38	38	38
Connections					Fl	are-Nut Connect	ion (with Flare N	uts)		
Refrigerant Piping	Liquid Line	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52
Diameter	Gas Line	mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф15.88	Ф15.88	Ф15.88
Condensate Drain			VP16	VP16	VP16	VP16	VP16	VP16	VP16	VP16
Approximate Packi	ng Volume	m ³	0.09	0.09	0.09	0.11	0.14	0.14	0.14	0.14
Accessory included	d					Wall Mour	ting Bracket			

Type

External Expansion Valve type

Model			RPK-0.6FSRHM	RPK-0.8FSRHM	RPK-1.0FSRHM	RPK-1.5FSRHM		
Indoor Unit Power	Supply		AC 1Φ, [220-240V/50Hz] [220V/60Hz]					
Nominal Capacity	Cooling	kW	1.7	2.2	2.8	4.0		
Nonlinal Capacity	Heating	kW	1.9	2.5	3.2	4.8		
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	35/32/31/29	39/35/32/30	39/35/32/30	46/40/36/33		
Color				Wh	nite			
Outer Dimension	(H×W×D)	mm	300×790×230	300×790×230	300×790×230	300×900×230		
Net Weight		kg	10	10	10	11		
Refrigerant			R410A	R410A	R410A	R410A		
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	8/7.5/7/6	10/8/7/6.5	10/8/7/6.5	14/11/9/7.5		
Motor			38	38	38	38		
Connections			Fla	are-Nut Connecti	on (with Flare Nu	ts)		
Refrigerant Piping	Liquid Line	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35		
Diameter	Gas Line	mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7		
Condensate Drain			VP16	VP16	VP16	VP16		
Approximate Packi	ng Volume	m ³	0.09	0.09	0.09	0.11		
Accessory included	I			Wall Mount	ing Bracket			

NECCIVEI KIL	Advanced	I C-ALITZI	
	FSRM: 0.6-2.0 (HP)	MSF-NP63A1	
Strainer kit	FSRM: 2.5-4.0 (HP)	MSF-NP112A1	
	FSRHM: 0.6-1.5 (HP)	MSF-NP36AH1	
External Expansion Valve Kit	FSRHM	EV-1.5N1	

Receiver kit Advanced PC-ALH71

1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor

temperature are under the following con	UILIOIIS.
Cooling Operation Conditions	
Indoor Air Inlet Temperature:	.27.0°C DB
· ·	19.0°C WB
	.35.0°C DB
Piping Length: 7.5 metre	
Piping Lift: 0 metre	

Heating	Operation Conditions	
Indoor	Air Inlet Temperature:	20.0°C DB
Outdoo	r Air Inlet Temperature:	7.0°C DB
		6.0°C WB
Piping L	ength: 7.5 metre	
Piping L	_ift: 0 metre	

2. The sound pressure level is based on following conditions.

1. In esound pressure level is based on following conditions.
1.0 metre Beneath the Unit.
1.0 metre from Discharge Grille.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.

Strainer kit



A strainer kit ensures that solid foreign substances, like small particles of metal, are caught before they enter the electric expansion valves of a wall-mounted indoor unit.

Without the strainer kit's filter, these particles may prevent the valves from being fully sealed, creating a risk of explosive condensation when the unit becomes active.

FLOOR/CEILING CONVERTIBLE

(AC) [RPFC-FSNQ]



Model			RPFC-1.8FSNQ	RPFC-2.0FSNQ	RPFC-2.3FSNQ	RPFC-2.5FSNQ	RPFC-3.0FSNQ	RPFC-3.3FSNQ	RPFC-4.0FSNQ	RPFC-5.0FSNQ
Indoor Unit Powe	r Supply				А	С 1Ф, [220-240V/	50Hz] [220V/60Hz	<u>r</u>]		
Nominal	Cooling	kW	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2
Capacity	Heating	kW	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3
Sound Pressure	Ceiling Mode	dB(A)	39/35/30	39/35/30	45/41/37	45/41/37	43/39/34	45/40/36	51/46/40	50/46/42
Level	Floor Mode	dB(A)	43/38/35	43/38/35	48/44/40	48/44/40	46/41/37	48/43/39	54/49/43	55/50/46
Outer Dimension	(H×W×D)	mm	230×990×680	230×990×680	230×990×680	230×990×680	230×1,285×680	230×1,285×680	230×1,285×680	230×1,580×680
Net Weight		kg	31	31	32	32	39	40	41	47
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/h	780/660/540	780/660/540	966/840/678	966/840/678	1,092/912/732	1,164/978/798	1,488/1,230/978	1,980/1,680/1,380
Connections					Fla	re-Nut Connecti	on (with Flare Nu	ts)		
Refrigerant	Liquid Line	mm	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52
Piping Diameter	Gas Line	mm	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88
Condensate Drain	1		VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Pack	king Volume	m³	0.31	0.31	0.31	0.31	0.40	0.40	0.40	0.48
Receiver kit		Basic		PC-RLH11						

Receiver kit

Notes:

1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions	
Indoor Air Inlet Temperature:	.27.0°C DB
· ·	19.0°C WB
Outdoor Air Inlet Temperature:	.35.0°C DB
Piping Length: 7.5 metre	
District Life O store	

Heating Operation Conditions Indoor Air Inlet Temperature:..... Outdoor Air Inlet Temperature: ...

Piping Length: 7.5 metre Piping Lift: 0 metre

2. The sound pressure level is based on following conditions.

2. The sound pressure lever is based on following conditions.

1.0 metre from Discharge grille.

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

When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.

CEILING SUSPENDED

(DC) [RPC-FSR]



Model			RPC-1.5FSR	RPC-2.0FSR	RPC-2.5FSR	RPC-3.0FSR	RPC-4.0FSR	RPC-5.0FSR	RPC-6.0FSR
Indoor Unit Powe	r Supply				АС 1Ф, [2	220-240V/50Hz] [220 ¹	V/60Hz]		
Nominal	Cooling	kW	4.0	5.6	7.1	8.0	11.2	14.0	16.0
Capacity	Heating	kW	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	37/35/31/28	38/35/31/28	38/35/31/28	40/37/33/29	44/42/37/32	48/45/41/35	49/47/42/36
Color						Neutral White			
Outer Dimension	(H×W×D)	mm	235×960×690	235×960×690	235×1,270×690	235×1,270×690	235×1,580×690	235×1,580×690	235×1,580×690
Net Weight		kg	26	27	35	35	41	41	41
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	15/13/11/9	15/13/11/9	19/16.5/14/11.5	21/18.5/15.5/12.5	30/26.5/22/17	35/31/25.5/20	37/32.5/27/21
Connections					Flare-Nut	Connection (with Fla	are Nuts)		
Refrigerant	Liquid Line	mm	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52
Piping Diameter	Gas Line	mm	Ф12.7	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88
Condensate Drain			VP20	VP20	VP20	VP20	VP20	VP20	VP20
Approximate Pack	king Volume	m ³	0.23	0.23	0.31	0.31	0.38	0.38	0.38

Receiver kit	Advanced	PC-ALHP1
Motion Sensor		SOR-NEP
	1.5 (HP)	DUPC-63K1
Condensate Drain Pump Kit	2.0 (HP)	DUPC-71K1
	2.5-6.0 (HP)	DUPC-160K1
ViroSense S filter		- (Standard)

Notes:

1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operati	ion Conditions	
Indoor Air Inlet	Temperature:	27.0°C D
		19.0°C W
Outdoor Air Inle	et Temperature:	35.0°C D
Piping Length: 1		
Piping Lift: 0 me	etre	

Heating Operation Conditions Indoor Air Inlet Temperature:..... Outdoor Air Inlet Temperature:

- Piping Length: 7.5 metre Piping Lift: 0 metre

- The sound pressure level is based on following conditions.
 One tre Beneath the unit.
 One tre from Discharge grille.
 The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
 When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.

Specifications & accessories

Specifications & accessories

Specifications & accessories



FLOOR EXPOSED

(AC) [RPF-FSN2E]

Model			RPF-1.0FSN2E	RPF-1.5FSN2E	RPF-2.0FSN2E	RPF-2.5FSN2E
Indoor Unit Powe	Supply			AC 1Ф, [220-240V/5	0Hz] [220V/60Hz]	
Nominal	Cooling	kW	2.8	4.0	5.6	7.1
Capacity	Heating	kW	3.2	4.8	6.3	8.5
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	35/32/29	38/35/31	39/36/32	42/38/34
Color				Spring V	Vhite	
Outer Dimension	(H×W×D)	mm	630×1,045×220	630×1,170×220	630×1,420×220	630×1,420×220
Net Weight		kg	25	28	33	34
Refrigerant			R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	8.5/7/6	12/10/09	16/14/11	16/14/11
Motor		W	20	28	45	45
Connections				Flare-Nut Connection	n (with Flare Nuts)	
Refrigerant	Liquid Line	mm	Ф6.35	Ф6.35	Ф6.35	Ф9.52
Piping	Gas Line	mm	Ф12.70	Ф12.70	Ф15.88	Ф15.88
Condensate Drain			Ф18.5 OD	Ф18.5 OD	Φ18.5 OD	Φ18.5 OD
Packaging Volum	2	m³	0.22	0.24	0.29	0.29
Receiver kit		Advanced	PC-ALHZ1			

Notes:

1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions Indoor Air Inlet Temperature:	. 27.0°C DE
Outdoor Air Inlet Temperature:	19.0°C W
Piping Length: 7.5 metre Piping Lift: 0 metre	

Heating Operation Conditions Indoor Air Inlet Temperature:..... Outdoor Air Inlet Temperature:....

Piping Length: 7.5 metre Piping Lift: 0 metre

2. The sound pressure level is based on following conditions.
1.0 metre from the unit.
1.0 metre from floor level.
Voltage of the power source for the indoor fan motor is 220V.
The above data was measured in an anechoic chamber.



FLOOR CONCEALED

(AC) [RPFI-FSN2E]

Model		RPI	I-1.0FSN2E	RPFI-1.5FSN2E	RPFI-2.0FSN2E	RPFI-2.5FSN2E
Indoor Unit Powe	r Supply			AC1Φ, [220-24	0V/50Hz] [220V/60Hz]	
Nominal	Cooling	kW	2.8	4.0	5.6	7.1
Capacity	Heating	kW	3.2	4.8	6.3	8.5
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	35/32/29	38/35/31	39/36/32	42/38/34
Outer Dimension	(H×W×D)	mm	620×848×220	620×973×220	620×1,223×220	620×1,223×220
Net Weight		kg	19	23	27	28
Refrigerant			R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	8.5/7/6	12/10/09	16/14/11	16/14/11
Motor		W	20	28	45	45
Connections				Flare-Nut Conne	ection (with Flare Nuts)	
Refrigerant	Liquid Line	mm	Ф6.35	Ф6.35	Ф6.35	Ф9.52
Piping	Gas Line	mm	Ф12.70	Ф12.70	Ф15.88	Ф15.88
Condensate Drain	1		VP25	VP25	VP25	VP25
Packaging Volum	е	m ³	0.22	0.23	0.25	0.25
Receiver kit	Advance	ed	PC-ALHZ1			

Notes:

1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions	
Indoor Air Inlet Temperature:	27.0°C DB
	19.0°C WB
Outdoor Air Inlet Temperature:	35.0°C DB
Piping Length: 7.5 metre	
Piping Lift: 0 metre	

Heating Operation Conditions Indoor Air Inlet Temperature:..... Outdoor Air Inlet Temperature: Piping Length: 7.5 metre Piping Lift: 0 metre

The sound pressure level is based on following conditions.
 One the from the unit.
 One the from floor level.
 Voltage of the power source for the indoor fan motor is 220V.
 The above data was measured in an anechoic chamber.









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 buildup, 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

VENTILATION

113	Our ventilation line-up					
115	Ventilation Solutions					
	117 All fresh air unit					
117	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



- Various controllers can be selected and interfaced with the H-LINK system
- •Longer ducts can be connected on-site, thanks to the higher ESP.

FROM 150 TO 6,000m³/h

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

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 Suppl	y		АС 1Ф 220-240V/50Hz	АС 1Ф 220-240V/50Hz	АС 1Ф 220-240V/50Hz	АС 3Ф 380-415V/50Hz
	Capacity	kW	14.0	22.4	28.0	33.5
Cooling	Power	kW	0.30	0.48	0.50	0.68
	Nominal Current	A	1.4	2.2	2.3	1.43
	Capacity	kW	13.7	21.9	24.5	26.8
Heating	Power	kW	0.30	0.48	0.50	0.68
	Nominal Current	A	1.4	2.2	2.3	1.43
Sound Pressi (overall a sca		dB(A)	42	44	47	56
Dimensions	H×W×D	mm	370×1,320×800	486×1,270×1,069	486×1,270×1,069	486×1,270×1,069
Net Weight		kg	63	110	110	110
Refrigerant			R410A	R410A	R410A	R410A
Air Flow Rate		m³/ min	18	28	35	50
External Pres	sure	Pa	200	220	220	220
	Liquid	mm	Ф9.53	Ф9.53	Ф9.53	Ф12.7
Piping	Gas	mm	Ф15.88	Ф19.05	Ф22.2	Ф25.4
	Condensate Drain			VP25, Outer Dia	ameter: Φ32mm	
Temperature	range of fresh air dr	awn		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 Supp	lly		АС 3Ф 380-415V/50Hz					
Connectable Outdoor Unit RAS-160HNCEL(/R)W RAS-200HNCEL(R)WS, RAS-200HNCEL(R)WP, RAS-					NCEL(R)WP, RAS-200HI	NCEL(R)WS		
	Capacity	kW	45.0	45.0	56.0	56.0	56.0	56.0
Cooling	Power	kW	0.72	1.06	1.06	1.39	1.39	1.72
	Nominal Current	Α	1.8	2.2	2.22	3.14	3.0	3.9
	Capacity	kW	36.0	36.0	44.8	44.8	44.8	44.8
Heating	Power	kW	0.72	1.06	1.06	1.39	1.39	1.72
	Nominal Current	A	1.8	2.2	2.22	3.14	3.0	3.9
Sound Press (overall a sc		dB(A)	58	62	61	65	63	67
Dimensions	H×W×D	mm	635×1,950×805	635×1,950×805	735×1,950×805	735×1,950×805	735×1,950×805	735×1,950×805
Net Weight		kg	196	196	222	222	222	222
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A
Air Flow Rat	e	m³/min	67	67	83	83	100	100
External Pre	ssure	Pa	200	300	200	300	200	300
	Liquid	mm	Ф12.7	Ф12.7	Ф15.88	Ф15.88	Ф15.88	Ф15.88
Piping	Gas	mm	Ф25.4	Ф25.4	Ф28.6	Ф28.6	Ф28.6	Ф28.6
	Condensate Drain				RC1 (Inter	nal Screw)		

Temperature range of fresh air drawn

Cooling: 20.0°C~43.0°C, Heating: -7.0°C~15.0°C

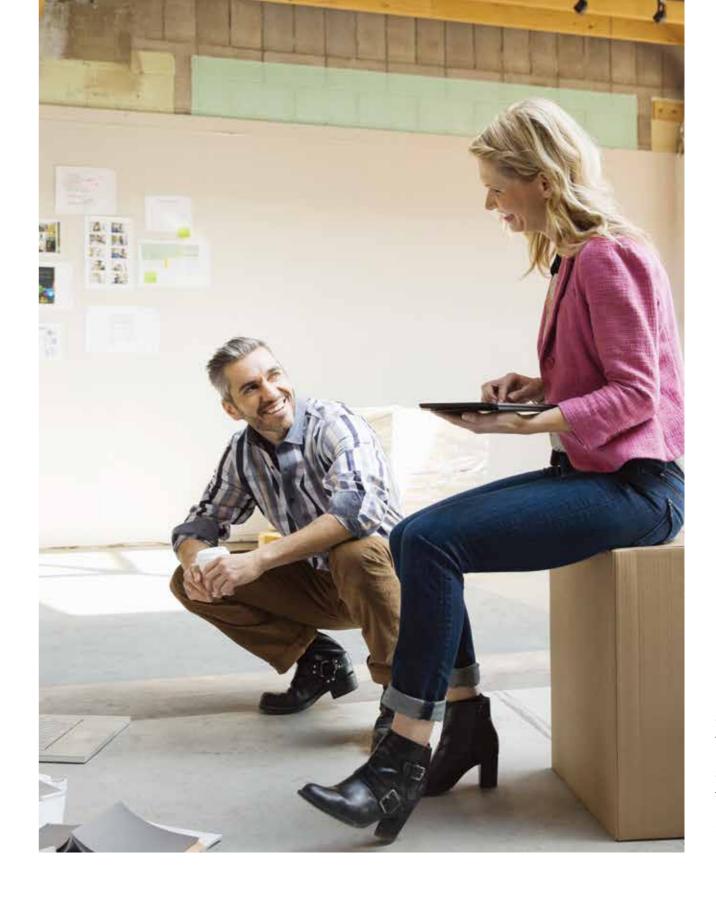
- Notes:
 1. Cooling capacity and heating capacity tested in the following conditions:
 Cooling conditions: 33.0°CDB, 28.0°CWB, pipeline length 7.5 metre, pipe height difference 0 metre.
 Heating conditions: 0°CDB, -2.9°CWB, pipeline length 7.5 metre, pipe height difference 0 metre (heating is the data 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 Hitachi Top Flow VRF unit.
 When fresh air processing unit and other indoor units air all connected to the same outdoor unit, Its equivalent cooling capacity is calculated by the following criteria:
 Type_5HP class: 21.0kW; 8HP class: 33.3kW; 10HP class: 42.0kW
- $7.\,Refer to \,capacity \,restrains \,shown \,on \,Table \,below \,for \,indoor \,unit \,capacity \,connectable \,to \,outdoor \,unit.$

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.



DX-KIT

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

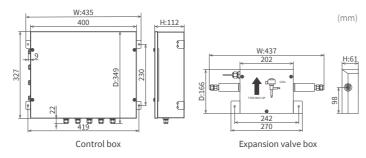




Canacity (HP)

HITACHI

Dimensions



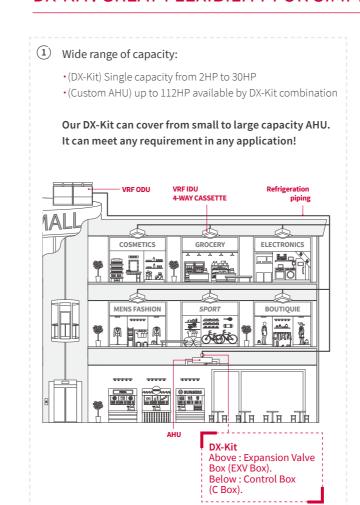
12~20

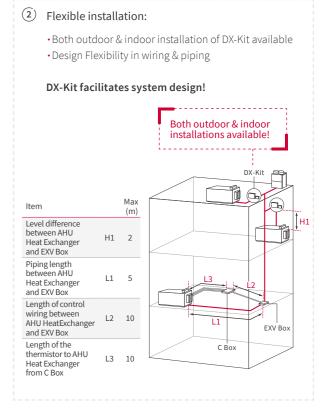
22~30

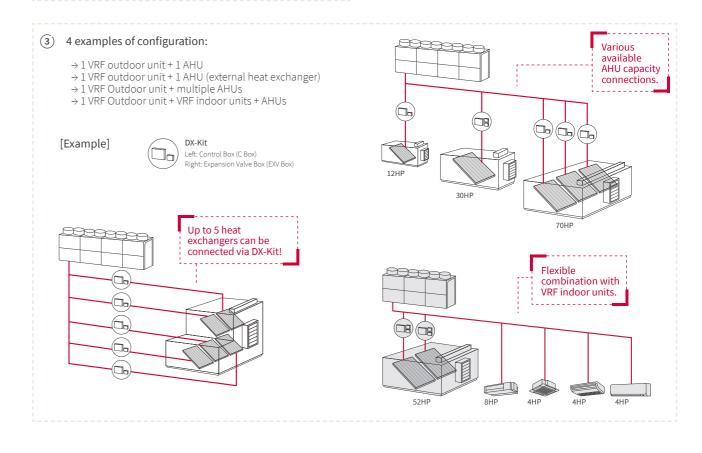
Capacity (HP)			2	4	6	8/10	12~20	22~30
Model			DXF-2.0A1	DXF-4.0A1	DXF-6.0A1	DXF-10.0A1	DXF-20.0A1	DXF-30.0A1
	Power Supply			:	АС1Ф, [220-240V	/50Hz] [220V 60Hz]		
	Height	mm	112	112	112	112	112	112
Control Box	Width	mm	435	435	435	435	435	435
(C Box)	Depth	mm	349	349	349	349	349	349
	Weight	kg	5.2	5.2	5.2	5.2	5.2	5.2
	Material				Steel Plate + Wh	nite Grey Coating		
	Height	mm	61	61	61	61	61	61
	Width	mm	437	437	437	437	437	437
	Depth	mm	166	166	166	166	166	166
Expansion Valve Box (EXV Box)	Weight	kg	1.7	1.7	1.7	1.7	1.7	1.7
(LAV DOX)	Quantity		1	1	1	1	1	2
	Material				Steel Plate + Wh	nite Grey Coating		
	Liquid Pipe Diameter		ф6.35	ф9.52	ф9.52	ф9.52	ф12.7	ф12.7
AHU Suction	Cooling			2	1.0°C to 32.0°C (DB)	/ 15.0°C to 23.0°C (W	B)	
Temperature Range	Heating				15.0°C to	27.0°C (DB)		
→ Total AHU or AHU & ODU capacity = X	ifferent configurations IDU Connection Ratio against Temperature Control")			50% < X ≤ 100% → To	AHU (Separate Heat • 1 ODU to Multiple A 1 ODU to A • tal AHU capacity: No	$1:50\% < X \le 100\%$ Exchanger Type): 50 HUS: $50\% < X \le 100\%$ AHU & IDUS: b limitation / Each AH of total capacity / Ea	<u>6</u> IU capacity: No limit	
Maximum	Total	m				the system is the sar U] in the system is <u>m</u>		
Piping Length	Between AHU Heat Exchanger and EXV Box	m	5	5	5	5	5	5
Maximum	Between ODU and [AHU/IDU]	m				<u>re</u> [AHU & IDU & DX-K <u>w</u> [AHU & IDU & DX-K		
Level Difference	Between AHU Heat Exchanger and EXV Box	m	2	2	2	2	2	2
Maximum	Control wiring between AHU Heat Exchanger and EXV Box	m	10	10	10	10	10	10
Length	Thermistor to AHU Heat Exchanger from C Box	m	10	10	10	10	10	10
Temperature Control	Modes (*1)		Inlet Air Temperat Outlet Air Temper					

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

DX-KIT: GREAT FLEXIBILITY FOR SIMPLIFIED HVAC UPGRADE











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).

CONTROLLERS

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137 Accessories



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.

SMALL TO LARGE SYSTEMS & FIXED OR CLOUD-BASED

			aircLoud PRO	CENTRAL STATION EX	CENTRAL STATION EZ	CENTRAL STATION MII
				20 20 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10		ascirbi
			HC-IoTGW	PSC-A128EX3	PSC-A64GT	PSC-A32MN
		RC group	64 (*6)	2,560 (*1)	64	32
		Group	64 (*6)	2,048 (*1)	64	32
	Total Connection capacity	Block	Unlimited (*7)	512 (*2)	4	2/4/8/16
Capacity	Total Confidention Capacity	Area	Unlimited (*7)	512 (*2)	-	-
comparison		Indoor unit	80 (*6)	2,560 (*1)	160	160
		Outdoor unit	16 (*6)	1,024 (*1)	64	64
	Building scale		Small to Large	Large	Medium	Small
	Operation		Web + Mobile Phone	Touch screen + Web (New!)	Touch screen	Touch screen
	Operation panel size option	S	Adaptive	7	2	3
Display	Layout		-	•	-	-
	List options		-	3	-	-
	All together		•	•	•	•
	By layout		-	•	-	-
	By area		•	•	-	-
Operation unit	By block		•	•	•	•
	By group		•	•	-	-
	By RC group		-	-	•	•
	By indoor unit		•	•	-	-
	Main 5 functions (*5)		•	•	•	•
	Individual controller lock		•	•	△ (*3)	•
Control Function	Filter sign reset		•	•	•	•
	Outdoor unit capacity contr	ol	-	•	-	△ (*4)
	Outdoor unit noise control		-	•	-	-
	Main 5 functions (*5)		•	•	•	•
	Individual controller lock		•	•	•	•
Monitor	Alarm status & code		•	•	•	•
Function	Filter sign		•	•	•	•
	Air inlet temperature of indo	oor unit	-	•	-	•
	Air inlet temperature of out	door unit	-	•	-	•
	Weekly		•	•	•	-
	Setting times per day		16	16	10	10
Schedule Function	Special day setting		5	5	-	-
	Holiday setting		-	•	-	-
	Annual/Summer/Winter sch	edule	Future Version	•	-	-
	Alarm history (records num	ber)	Unlimited	10,000	100	100
Other function	External in/output history		-	1,000	-	-
	Management report visualiz	ration(*11)	Energy Estimation (*8) - Future	•	•	•
	Data output by external med	dia	Download from Web - Future	SD card, USB flash device	-	-
	Individual WRC clock synch	ronization	-	•	-	-
	Connectivity		Ethernet + 4G (*9)	-	-	-
IoT Functions	Future Extendability		Firmware OTA (*10) Web + Mobile Update	-	-	-
			one opeate			

^(*1) One Extension Adapter (PSC-AD128EX3) enable CENTRAL STATION EX to control additional 160 RC groups / 128 groups / 160 IDUs / 64 ODUs, and up to 15 adapters can connect to one Central Station EX.

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

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

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

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

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

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

(*8) Visualization of outdoor unit energy consumption.

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

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

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

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

Centralized controllers

airCLOUD PRO





Specifications

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

Functions

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

• On/Off • Mode • Set temperature Air intake temperature • RC sensor temperature (*3)
 Air intake temperature of outdoor unit Monitor Function • Fan Speed • Louver • RC prohibition • Thermo-ON information • Filter sign/Auto cleaning fault Alarm status/Alarm codes • Weekly schedule • Easy selection of days and zones • Setting items in schedule is as below; • On/Off • Operation mode • Setting temperature Schedule function

· Louver · Fan speed

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

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.)





HOSPITAL



COLLEGE







Future-proof

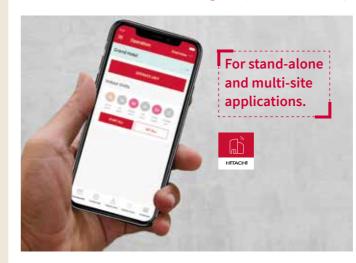
With updates and new features added regularly, airCloud Pro ensures you are always up to date.



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

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

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



√ Intuitive simplicity

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

√ Control from anywhere

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

A simple yet powerful tool.

Simplify your job

The pilot app makes managing your VRF systems easy.

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

Create better comfort

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

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

Save more energy

Monitor energy consumption and optimize usage.

- Energy consumption data*2 Simple graphs visualize power
- Intuitive scheduling Plan operations ahead based on your business hours.
- Individual controller lock Prevent inappropriate usage from occupants.



X Easy plug-and-play

Our airCloud gateway makes installation a breeze.

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

+ data security

Best-in-class standards:

TLS.v1.2, HTTPS 2038 encryption.

Minimal personal details:

Only your name, email address and phone number are required for login.

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

Centralized controllers

CENTRAL STATION EX FOR LARGE-SCALE BUILDINGS

(PSC-A128EX3)



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

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

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

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

Capacity

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



(*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



Specifications

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

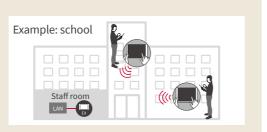
Functions

Operation unit	All together Each area Each block Each group Each indoor unit	Schedule function	Each of the following settings is available in 3 different [annual] [summer][winter] categories: → Weekly schedule → Up to 16 actions can be set per day → Exception day setting: 5 different types → Holiday setting		Energy saving: • Run/Stop • RC prohibition • Temperature shift (For Cool/Dry mode: +1.0°C ++9.0°C (+1.0°F ++18.0°F))
Control function	On/Off Mode Set temperature Fan speed Louver RC prohibition Filter sign reset Function selection for indoor units (*1) Function selection for outdoor units (*2) Capacity control for outdoor units (*2) Lower noise control for outdoor units (*2)		Setting items in schedule is as below: • On/Off • Operation mode • Setting temperature • Louver • Fan speed • RC operation prohibition • Capacity control for outdoor units • Lower noise control for outdoor units	External input / output	(For Heat mode: -1.0°C~-9.0°C (-1.0°F~-18.0°F)) • Mode shifte (Mode shifted to Fan when in Cool/Dry mode, and shifted to Stop in Heat mode) • Capacity control on outdoor units • Lower noise control for outdoor units Control/Monitor → Controlled items: • Run/Stop • Mode (Cool/Heat)
Monitor A function F L R F F	On/Off Mode Set temperature Air intake temperature (*3) Air intake temperature of outdoor unit Fan Speed Louver RC prohibition Thermo-ON information Filter sign/Auto cleaning fault Alarm status/Alarm codes	History	Alarm history: 10,000 records External In/Output history: 1,000 records Pulse input history: 6 months		→ Monitored items:• Run/Stop• Mode (Cool/Heat)
		Management report	Up to 2 years worth of data history can be displayed for the following: • Accumulated operation time (min.) • Accumulated thermo-ON time (min.) • Average air intake temp temperature of		Alarm state Others: Power consumption signal input Emergency stop
		visualization	indoor unit • Average air intake temperature of outdoor unit • Average setting temperature • Average RC sensor temperature	(*2) Available for (*3) Whether this	r units may not fully support all functions. applicable outdoor units only. is shown on the screen depends te controller settings.

Each of the following settings is available in 3

Remote access.

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

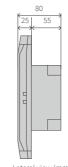


CENTRAL STATION EZ FOR MEDIUM-SCALE BUILDINGS

(PSC-A64GT)



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



Lateral view (mm)



Capacity

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

Specifications

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

Functions

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

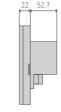
^{*}The "All Groups Run/Stop" command signal exception function for selected groups is available via the "Exception of Run/Stop Operation" function.

CENTRAL STATION MINI FOR SMALL-SCALE BUILDINGS

(PSC-A32MN)



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



Lateral view (mm)



Capacity

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

Specifications

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

Functions

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

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

Centralized controllers

A new generation of room controller now available!

With two new room controllers, the experience of controls has become easier and more stylish than ever

ADVANCED-COLOR CONTROLLER (PC-ARFG1-*)





Contactless settings via airCloud Tap

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

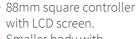
- · Segment screen displaying pictograms
- · Essential controls in a glimpse
- · On/Off weekly schedule
- · Some extra advanced features such as GentleCool, Power-Saving Peak-Cut mode and Sleep Mode Timer
- · Embedded IR receiver, ideal for ducted units

Still available for order



- Smaller body with multiple features.

WIRED REMOTE CONTROLLER (HCWA10NEGQ)



Best option for spaces

frequented by recurring users, e.g. offices.

Controls from anywhere in the room **ADVANCED WIRELESS REMOTE** WIRELESS REMOTE CONTROLLER **CONTROLLER** (PC-AWR) (PC-LH7QE)



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



- 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

From basic to

		ADVANCED-COLOR CONTROLLER	ECO-COMPACT CONTROLLER	WIRED REMOTE CONTROLLER	ADVANCED WIRELESS REMOTE CONTROLLER	WIRELESS REMOTE CONTROLLER
advance	d controls	100			B152	133
		265	* 26\$°°	-88	363	111
		NEW PC-ARFG1	NEW PC-ARC	HCWA10NEGQ	PC-AWR	PC-LH7QE
Connection Capacity	No of RC-Group	1	1	1	-	-
connection capacity	No of indoor units	16 120×120×16.5	16 90x90x15.5	16	-	-
Product Size	Width*Height*Depth (mm)	(D: thinnest part)	(D: thinnest part)	88×88×15.5	140×55×16.8	140×52×19.3
Screen		Color LCD with backlight	Segment LCD with backlight	Segment LCD with backlight	Segment LCD	Segment LCD
Embedded IR receiver		-	Dacktight	-	-	-
Smartphone App	Use With airCloud Tap	(support NFC)	(support NFC)			
	Run / Stop Operation Mode	•	•	•	•	•
Essential Operations	Auto Mode Setting	•	•	•	•	
Essential Operations	Temperature Setting	•	•	•	•	•
	Fan Speed Louver Direction		•	•	•	
	Simple Timer	•	(On/Off Timer)	(On/Off Timer)	(On/Off Timer)	● (On/Off Timer)
	Weekly Operation Schedule Power Savings Setting	•	(Capacity Control only)	-	-	-
	Night Quiet Operation	•	-	-	-	-
	Power Savings/Night Quiet Schedule	•	-	-	-	-
	Power Consumption Display AutoBoost	•	•	-	-	-
	Comfort Setting	•	● (GentleCool only)	-	-	-
Advanced Feature Settings	Sleep Mode Motion Sensor Setting (1)	-		-	-	-
	Setback Setting	•	-	-	-	-
	Elevating Grille Filter Reminder Time Reset	•			-	-
	Filter Auto-Cleaning (1)	•	-		-	-
	Individual Louver Setting	•	•	•	-	-
	Louver Open/Close Ventilation	•	-	-	-	-
	Total Heat Exchanger SET	•	-	-	-	-
	Adjusting Date/Time	•	•	•	-	-
	Daylight Saving Time Run Indicator Brightness Adjustment	•	● (Only On/Off setting)	-	-	-
	Display Adjustment	•	-	-	-	-
Display Settings	Temperature Units (°C/°F) Temperature setting at 0.5°C step	•			•	- (°C only) - (1.0°C only)
	Room Temperature Display	•	•	•	-	-
	Language available	EN, JPN,CN (traditional &simplified),FR, ES,PT	EN	EN	EN	EN
	Keypad Touch Sound	•	•	(Cannot turn off)	-	-
	Lock Function Password Setting	•	(Lock function individually)	(Lock whole keypad)	-	-
	Hotel Mode	•	-	-	-	-
	Power Saving Details Setting	•	- (in Eupstion Colostion)	- (in Eupstion Colostion)	-	-
Service Functions	Temperature Range Restriction Dual Setpoint	•	(in Function Selection)	(in Function Selection)	-	-
	Main/Sub Display	•	-	-	-	-
	Set Room Name Set Contact Information	•	-	-	-	-
	NFC Setting	•	•	-	-	-
	Simple Maintenance Check Menu Test Run	•			-	-
	Function Selection	•	•	•	-	-
	Thermistor Selection	•	(in Function Selection)	(in Function Selection)	-	-
	Input/Output Thermistor Calibration in Controller	•	(in Function Selection)	-	-	-
	Fan Speed At Thermo-Off	•	(in Function Selection)	(in Function Selection)	-	-
	Indoor Unit Address Change Address Check Operation	•	-	-	-	-
Installation Functions	Address Initialization	•	-	-	-	-
	Setting Initialization Main/Sub Controller Setting	•	•	•	-	-
	Priority Setting			•	-	-
	Cancel Preheating Control	•	-	-	-	-
	Elevating Grille Setting Power Up Setting	•	-	-	-	-
	Setback Trigger Unit	•	-	-	-	-
	Refrigerant Leak Sensor Setting Check 1	•	•	•	-	-
	Check 2	•	•	•	-	-
Check Menu	Alarm History Display	•	•	•	-	-
	Display Model Number Check PCB of the Units	•	-	-	-	-
	Self Check	•	•	-	-	-
	Synchronize Date/	 (Only available from Central Station EX 	 (Only available from Central Station EX 	-	-	-
	time with Central Controller	PSC-A128EX3)	PSC-A128EX3)			
Other features	Stop operation delay Emergency operation	•	•	-	-	-
	Two WRC Control	•	•	-	-	-
	Alarm Display	•	•	•	-	-
	Filter cleaning reminder sign display				-	•

ADVANCED-COLOR

ECO-COMPACT

WIRED REMOTE

WIRELESS REMOTE

Individual controllers

ADVANCED WIRELESS

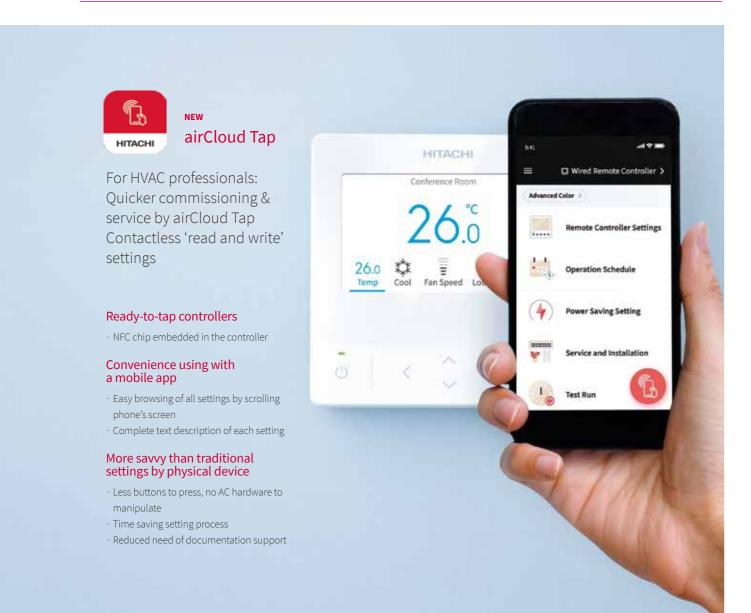
^(*1) Available when the controller is connected with selected indoor unit offering this feature.

Individual controllers

Download

airCloud Tap!

AIRCLOUD TAP



How does airCloud Tap works?



1. Activate the NFC function on the AC equipment.



2. Open the airCloud Tap app and tap the AC equipment with your phone to read the current settings.



3. Edit the desired settings on



4. Tap again your equipment to apply the new settings.

What you can do with airCloud Tap | some highlights:

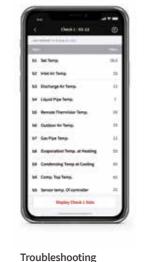
Installation & Commissioning







Operation



Maintenance & Service

Date/time setting

import the date & time from your phone into the controller

Scroll your phone's screen and browse over 140 commissioning

Function selection

Save preferred AC schedule and save to copy to other controllers of the settings available same building

Scheduling

Visualize all the service check data on your phone

Temperature range restrictions

Apply min/max set temperature to prevent excessive cooling/heating

Special tip: Save time on multi-room commissioning

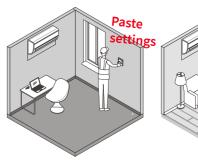
Specify settings for one room, save them, then apply these settings to other similar rooms in one tap. Particularly useful for multiple zones with similar needs! Hotel guestrooms, office meeting rooms, condominium units, etc.

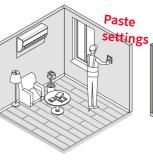


Read the settings from one device

STEP1

Hold the mobile device over each product and write settings of STEP1.







Individual controllers

Individual controllers

ADVANCED COLOR WIRED REMOTE CONTROLLER (PC-ARFG1)

Simplicity with style

Combining the best of form and function, enjoy climate control made easy with Hitachi's most advanced wall controller yet.





Super user-friendly interface



Easy-to-navigate menus



Available in 7 languages



1 Room name

2 Set temperature

3 Operation mode

6 Navigation buttons

7 Back button 8 OK button

9 Fan speed

10 Louver direction

11 Access to menu

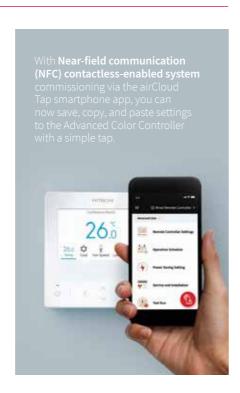
12 Filter cleaning reminder

4 Indoor unit ON/OFF light 5 Indoor unit ON/OFF

Pictograms and colors for an optimal user experience

Award-winning design

- Minimalist design aesthetic
- Distinctive curves for ergonomics
- Modern and subtle colors





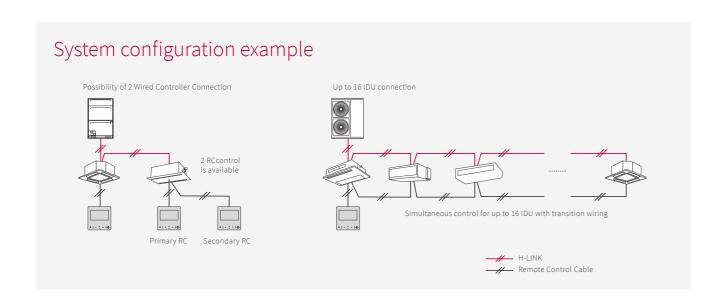
Outer dimensions (H×W×D)

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

Capacity

Power Supply	Powered by indoor unit, 15VDC±10%
	180g (approx.)
Installation	Indoor, on the wall or switch box
Connection capacity	Up to 16 indoor units (with the same wired remote controller)
▲ Display	When two wired Advanced Controller units are connected to the same indoor unit, the maximum brightness of each controller will be halved

 $^{\star}\,\mathrm{H}$ is the height of the unit from the front, without the protrusion at the bottom



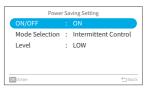
Energy optimization

Power-saving features enable VRF system operators to optimize energy usage









Energy consumption visualization

Capacity - peak cut control

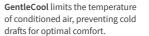
Choice of power-saving method

Set specific schedules for features like peak capacity cuts and the thermal operation rotation of indoor units, enabling you to match energysaving operation hours with your utility tariffs plan. Building managers can also set the minimum and maximum temperature range for occupants and visualize energy consumption with daily, weekly or monthly comparison options.

From basic to advanced functions

Users can control the main temperature settings from Advanced-Color controller's main screen. In addition, more advanced comfort settings help customizing the air to their occupants' specific







AutoBoost automatically activates for 30 minutes every time the AC is turned on, helping the room reach the desired temperature faster.



AC Scheduling is easier than ever. thanks to flexible features such as the holiday calendar.

The latest VRF features



Fan speed at thermo-off reduces air circulation when cooling or heating is not effective.



Individual 4-way cassette louvers optimizes air flow direction to each corner layout.



Schedule Night Quiet mode to minimize the outdoor unit's operation noise so you and your neighbors get a better night's sleep.

Special features for hotels

Hotel mode enables instant access to the functions demanded most by hotel guests. After guests check out, housekeeping can reset the controller in one touch.

Hotel setback allows interlocking with hotel key cards. When the room is vacant, the indoor unit switches to a selected energy-saving setback temperature, ensuring the room remains at a comfortable temperature when unoccupied



Ideal for indoor units with motion sensor features



Active intelligent comfort features connected to your indoor unit's motion sensor and/or radiant sensor*: choice of direct/indirect air flow, FeetWarm NEW, FloorSense Cool NEW and the exclusive **Crowd-Sense NEW** to prevent heat peak from rapid crowd arrival.

Individual controllers

Individual controllers

ECO-COMPACT CONTROLLER (PC-ARC-*)

Climate control in a compact size

- Great value for money that combines the best of form and function.
- Minimalist design aesthetic that reflects Hitachi's Duality Design philosophy.





Budget-sensitive VRF projects



Users who prefer simple controls



Functional spaces

Stylish & Intuitive

With distinctive curves and an aesthetic inspired by Hitachi's Duality Design philosophy, the Eco-Compact Controller is stylish, ergonomic, cost-effective, and convenient. Enjoy climate control made easy through an

optimized interface with easy-to-understand pictograms for a truly intuitive user experience.





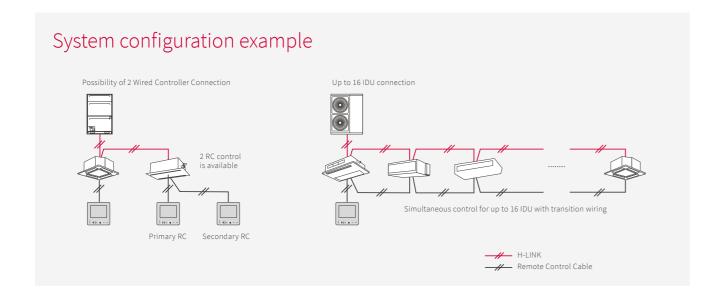
- 1 Set Temperature
- 2 Operation mode
- 3 Run indicator
- 4 On/Off button
- 5 Operation mode button 6 Fan speed button
- 7 Menu buttons
- 8 Directional key
- 9 Fan speed
- 10 Louver direction 11 Current time

Outer dimensions (H×W×D)

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

Capacity

Power Supply	Powered by indoor unit, 15VDC±10%
	100g (approx.)
Installation	Indoor, on the wall or switch box
Connection capacity	Up to 16 indoor units (with the same wired remote controller)



Easy access to essential controls

Simplified navigation enables users to change temperatures and adjust essential controls directly from the home screen in one touch.



Set temperature with 0.5°C precision*



Operation modes



Fan speed



Energy-saving features

The Eco-Compact Controller includes energy-saving features to minimize unnecessary AC operation.



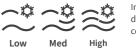
The Peak-Cut feature enables users to save even more energy during peak consumption periods.



Weekly scheduling automatically turns the indoor unit on/off at set times, great for classrooms, retail businesses or other premises with regular opening

Accrued comfort

The Eco-Compact Controller includes energy-saving features to minimize unnecessary AC operation.



Include GentleCool, which controls the discharged air temperature for a smooth cooling down and prevents cold drafts.



AutoBoost activates for 30 minutes every time the AC is turned on, helping the room reach the desired temperature faster with a powerful automatic mode, which is ideal for meeting rooms and other areas requiring fast temperature reach.

Supports easy maintenance

A filter symbol appears when it's time to clean the filter. In the event of an error, the error code and the related indoor unit number is clearly displayed for ease of maintenance.



- Alarm Icon
- Indoor Unit No.(Refrigerant system)
- 3 Indoor Unit No.(Refrigerant system)
- 4 Alarm Code

Special features



For residential users: set the Sleep mode timer **NEW** to gradually change the room temperature for a better night's sleep. The unit will turn off automatically after a set time.

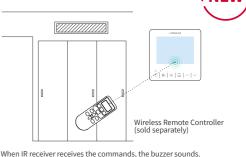


For hotels:

interlock the Eco-Compact Controller with your hotel key card receiver and activate setback temperature while guest is away.

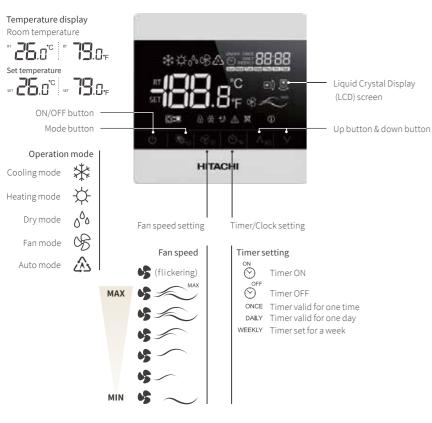


For use with the Wireless Remote Controller. Ideal for indoor units without embedded IR receiver (ex: ducted units)



*Compatible HCRB10NEWQ and PC-LH7QE/PC-LH7QE1 wireles

WIRED REMOTE CONTROLLER (HCWA10NEGQ)



Outer dimensions (H×W×D)

(mm) 88.0×88.0×15.5

Functions

	Run/Stop			
	Operation Mode			
	Auto Mode Setting			
Setting	Temperature Setting			
	Temperature Setting Rate 0.5°C/1.0°C/1.0°F			
	Fan Speed 3/4/6 taps			
	Louver Direction			
	Sensor Condition Check			
Service	Sensor Data Check			
	Alarm History Display			
	Test Run			
	Function Selection (Optional Function Setting			
Test Run	Thermistor Selection			
iest kun	Thermistor Calibration			
	Input / Output Setting			
	Indoor Unit Address Change			
	key pad lock			
Management	Lower Limit for Cooling Operation			
	Upper Limit for Heating Operation			
Schedule	Simple Timer (On/Off)			
Scriedule	Date/time setting			

- Notes:

 1. Fan speed taps setting unit availability varies with the indoor unit. Please check each technical catalog in advance.

 2. Initial setting of temperature display is "Set temperature" display only. Please contact your dealer to display room



ADVANCED WIRELESS REMOTE CONTROLLER (PC-AWR)



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

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

WIRELESS REMOTE CONTROLLER (PC-LH7QE)



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

	Run/Stop					
	Operation Mode					
	Auto Mode Setting					
Setting	Temperature Setting					
Jetting	Temperature Setting Rate 1.0°C					
	Fan Speed 3/4/6 Taps					
	Louver Direction					

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

RECEIVER KIT FOR WIRELESS REMOTE CONTROLLER

Model	PC-RL	H11 (Basic)	PC-ALHZ1 (Advanced)				
	Ducted	Ducted	Ducted (Compact	oact Floor / Ceiling		
Indoor unit	High ESP (AC Motor)	High ESP (DC Motor)	AC Motor	DC Motor	Convertible (AC Motor)		
	RPIH- HNAUN1Q	RPIH- HNDUSQ	RPIZ- HNATN1Q	RPIZ- HNDTS1Q	RPFC-FSNQ		
Advanced Wireless Remote Controller PC-AWR	0	0	0	0	0		
Standard Wireless Remote Controller PC-LH7QE	0	0	0	0	0		

Basic Limited function available for centralized controllers Temperature setting rate [1.0°C] only	
Advanced Full function available for centralized controllers Temperature setting rate [0.5°C/1.0°C/1.0°F]	

	HR4A10NEWQ (Basic)		PC-ALHC1 (Advanced)	P-AP56NAMR (Advanced)	PC-ALHD1 (Advanced)	PC-ALHS1 (Advanced)				PC-ALHZ1 (Advanced)		
Model	£*				0	Ö	Ö			O		
Indoor unit	4-way Cassette (DC Motor)	4-way Cassette (DC Motor)	4-way compact Cassette (AC Motor)	4-way compact Cassette (AC Motor)	2-way Cassette (DC Motor)	1-way Cassette (DC Motor)	Ceiling Suspended (DC Motor)	Wall- Mounted (DC Motor)	Floor Exposed (AC Motor)	Floor Concealed (AC Motor)	Ducted High ESP (DC Motor)	Ducted Medium ESP (DC Motor)
	RCI- FSKDN1Q	RCI-FSRP	RCIM-FSRE	RCIM-FSRE	RCD-FSR	RCS-FSR	RPC-FSR	RPK-FSRM RPK-FSRHM	RPF-FSN2E	RPFI-FSN2E	RPI-FSR RPI-8/10FSR	RPIM-FSR
Advanced Wireless Remote Controller PC-AWR	0	0	0	0	0	0	0	0	0	0	0	0
Standard Wireless Remote Controller PC-LH7QE	0	-	-	-	_	_	_	-	_	-	-	_

(*) Basic function receiver kit is installed as a standard part in this wall-mounted unit. Wireless remote controller (PC-LH7QE) is delivered as a standard accessory as well. If separate placement of receiver kit is required, please use optional basic receiver kit [PC-RLH11] or optional advanced receiver kit [PC-ALHZ1].

- When using a basic receiver kit PC-RLH11 or HR4A10NEWQ together with wireless remote controller PC-LH7QE:

 1) It won't be possible to lock individual remote controllers from Hitachi Central Stations (mini/EZ/EX)

 2) It won't be possible to apply min/max restrictions on set temperature from Hitachi Central Stations (mini/EZ/EX)



3P CONNECTOR CABLE PCC-1A

FOR CONNECTION TO REMOTE ON/OFF DEVICE/RECEIPT OF OUTPUT SIGNAL

Operation example

Cooling operation:

Compressor is ON by closing terminals 2 and 3 of CN3.

Compressor is OFF by opening terminals 2 and 3 of CN3.

Heating operation:

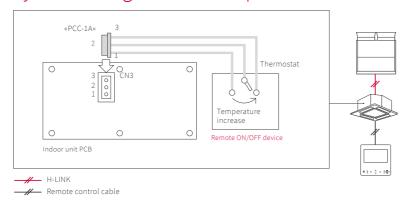
Compressor is ON by closing terminals 1 and 2 of CN3.

Compressor is OFF by opening terminals 1 and 2 of CN3.

*One set contains five 3P connector cables.

 $^\star PCC$ -1A can connect to external signal input-output terminal both in outdoor unit and indoor unit.

System configuration example





REMOTE SENSOR THM-R2A

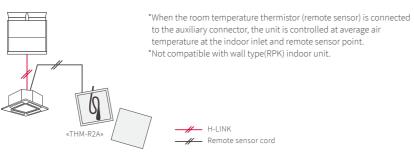
ROOM TEMPERATURE SENSOR

Outer dimensions (H×W×D)

(mm) 50.0×50.0×15.0

Length m 8.00

System configuration example



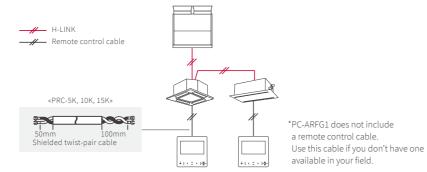


REMOTE CONTROL CABLE PRC-5K, 10K, 15K

FOR PC-ARFG1 CONNECTION (TO IDU)

PRC-5K PRC-10K PRC-15K Length m 5.00 10.00 15.00

System configuration example





BMS ADAPTER for BACnet® HC-A64BNP1

CONTROL UP TO 64 INDOOR UNITS

Specifications

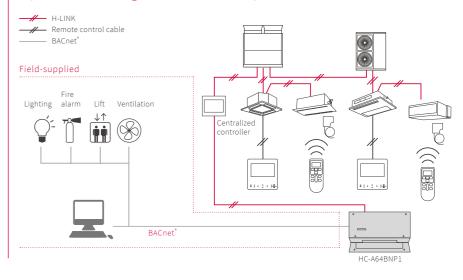
Outer dimensions (H×W×D)

(mm) 68.0×240.0×154.0

Functions

Corresponding BACnet® Standard	ANSI/ASHRAE Standard 135-2004 BACnet®
Control Item at Upper System	Run Stop (Setting) Operation Mode (Setting) Fan Speed Level (Setting) Indoor Temperature (Setting) RC Operation lock (Setting) Filter Sign Reset
Monitoring Item at Upper System	Run Stop (State) Operation Mode (State) Fan Speed Level (State) Indoor Temperature (State) Prohibiting RC Operation (State) Filter Signal Indoor Air Intake Temperature Alarm Signal Alarm Code Communication State

System configuration example





H-LINK: enjoy more freedom

WHAT IS H-LINK?

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

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

Examples



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



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



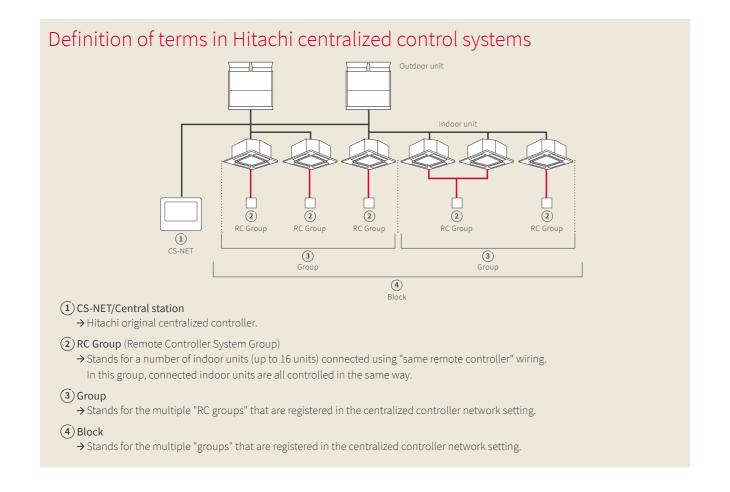
Rehabilitation facilities or hospitals where it is necessary to minimize the burden on users



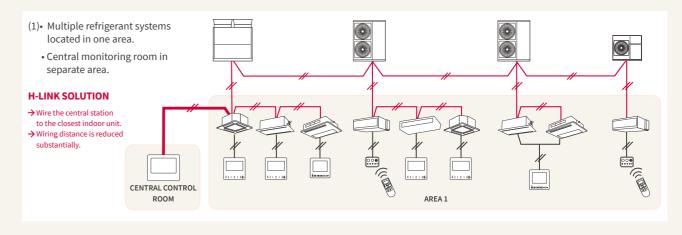


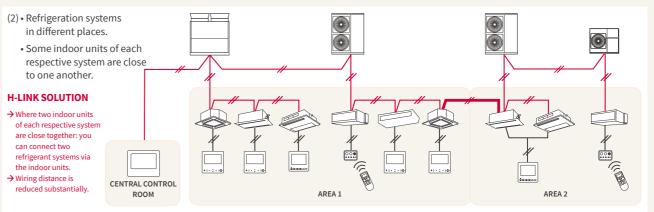


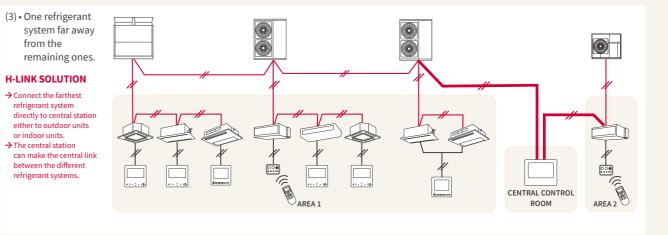


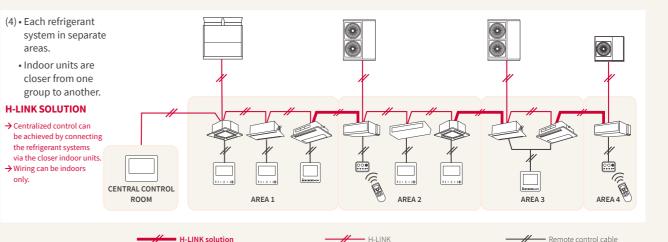


CENTRALIZED CONTROLS: FLEXIBLE WIRING ROUTE!











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CERTIFICATION







Shimizu Factory

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SOCIAL MEDIA







