air

Localize Contents

Company Name

CUSTOMER SERVICE

SALES OFFICE

SPARE PARTS

DISTRIBUTOR

CERTIFICATION

Concerning [Quality Management Systems]
ISO 9000 series
Hitachi-Johnson Controls Air Conditioning, Inc.
Shimizu Factory
JQA-1084 obtained in November 1995

Concerning [Environmental Management Systems]
ISO 14000 series
Hitachi-Johnson Controls Air Conditioning, Inc.
Shimizu Factory
EC97J1107 obtained in October 1997

Concerning [Occupational Health and Safety Management Systems]
ISO45001/ OHSAS 18001
Hitachi-Johnson Controls Air Conditioning, Inc.
Shimizu Factory
WC18J0002 obtained in July 2018

*Not all the products listed in this catalogue are not manufactured in Shimizu Factory.
Please consult the distributor for more details.

WARRANTY

SOCIAL MEDIA

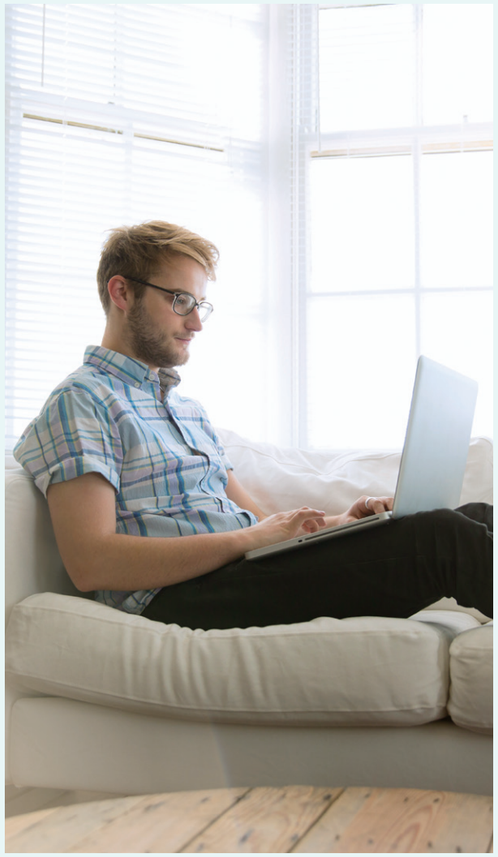
HITACHI

air 365 Max

VARIABLE REFRIGERANT FLOW SYSTEM
COOLING ONLY TYPE

Cooling & Heating

Index



The beauty of balance

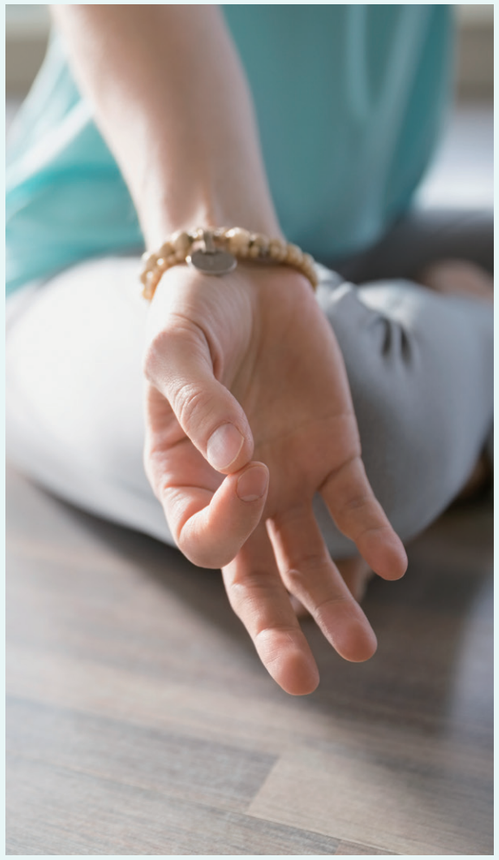
No matter what the weather is like outside, when you're indoors, you want to have complete control over your environment. At work or play, awake or asleep, you're free to create your own atmosphere; balancing energy with calm, sound with silence and light with shade. It's the same for cooling and heating.

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.



Air is 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 ‘air is 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

SUSTAINABLE GROWTH

- Highest EER max up to 5.40 & 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

WELL-BEING

- Right Temperature: Always constant and best cooling by several comfort features
- 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

SUSTAINABLE GROWTH

- Less is More!: thanks to max 200% IDU combination capacity, purchase fewer ODUs is okay!
- Efficiency designed-in; Highest EER max up to 5.40 with other intelligent operations (Auto-Save or Setback function) + SmoothDrive 2.0 technology optimizing part-load smooth operation leading to better and lower running cost!
- Thanks to airCloud Tap (installation & service support app), you can minimize the time and cost for VRF configuration and regular maintenance

WELL-BEING

- Right Temperature: Always constant and best cooling
- 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.

SUSTAINABLE GROWTH

- Help decrease the running cost thank to 1. Highest EER max up to 5.40 & 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

- Highest EER max up to 5.40 & specially optimized operation for part-load operation thanks to SmoothDrive 2.0 technology
- Smart monitoring and control: to cut the wasteful energy consumption by each checking status of units from airCloud Pro anywhere anytime

WELL-BEING

- Right Temperature: Always constant and best cooling
- 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.

For Architects

Those who design the building

EASY TO WORK WITH

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

DESIGN

- Large capacity yet smaller-footprint units (1.2m² for 30HP)
- Require fewer ODUs by IDU connection ratio up to 200%
- Move ODUs to indoor spaces for better building aesthetics
- One solution that works in all ambient conditions

INCREDIBLE ENERGY EFFICIENCY

Achieve the green building certification by our air365 Max latest cabinets

- Lowering direct environmental impact with air365 Max solution
- One of the world's most efficient VRF solutions: high EER up to EER 5.40
- SmoothDrive 2.0 confirmed for 39% less energy-consumption at 33% part load operation
- Uses 10% less refrigerant in average
- Demand control operation available to achieve forcible entire power saving

For System Designer (Contractor or Consultant)

Those who design the HVAC solution

EASY TO WORK WITH

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

DESIGN

- Design faster with airCloud Select
- Large capacity yet smaller-footprint units (1.2m² for 30HP)
- Require fewer ODUs by IDU connection ratio up to 200%
- Move ODUs to indoor spaces with EPS up to 80Pa
- One solution that works in all ambient conditions
- Max 200m piping length & max 110m height difference flexibility
- Widest choice of IDUs for any shape of rooms

INSTALL

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

OPERATE

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

MAINTAIN

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

INCREDIBLE ENERGY EFFICIENCY

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

- One of the world's most efficient VRF solutions: high EER up to EER 5.40
- SmoothDrive 2.0 confirmed for 39% less energy-consumption at 33% part load operation
- Uses 10% less refrigerant in average

For Installer

Those who install & service the solution

EASY TO WORK WITH

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

DELIVER

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

INSTALL

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

COMMISSION

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

OPERATE

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

MAINTAIN

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

For End Customer (Investor/Owner)

Those who pay for the system

SEAMLESS COMFORT

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

- SmoothDrive 2.0 to keep the constant indoor temperature
- Low-Noise operation available for less trouble to the neighborhood
- Comfort features via supporting IDUs including FloorSense, Crowd-Sense and more
- Several IAQ products available from ventilations to filters & ionizers to keep the indoor air clean and purified

INCREDIBLE ENERGY EFFICIENCY

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

- Lowering direct environmental impact with air365 Max solution
- One of the world's most efficient VRF solutions: high EER up to EER 5.40
- SmoothDrive 2.0 confirmed for 39% less energy-consumption at 33% part load operation
- Uses 10% less refrigerant in average
- Demand control operation available to achieve forcible entire power saving

EASY TO WORK WITH

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

OPERATE

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

MAINTAIN

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

OUTDOOR UNITS

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

ORIGINAL

SmoothDrive technology

air**Cloud** Tap + NFC technology

Gas-injection, Scroll Compressor

Smart Defrost

Oil-return technology

Patented Sigma-shape with patented path structure

End-to-end solution

1
Best-in-class efficiency

Offers significant improvements in energy consumption thanks to the higher EER & SmoothDrive technology which helps to reduce running costs during part-load operation. This can lead to reduced CO_2 emissions for customers as well.

5 key claims

- All-new heat exchanger and gas injection scroll compressor enables best-in-class VRF energy efficiency up to EER 5.40
- **(Original)** SmoothDrive 2.0 confirmed for 39% less energy-consumption at 33% part load operation
- Uses 10% less refrigerant in average
- Demand Response Enabling Device (DRED) support through both remote controller & centralized controller
- Reduce energy consumption and carbon footprint by 47%

2
Easy to work with

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

6 key claims

- [Design] User fewer ODUs with single unit capacity up to 30HP and 200% IDU connection capacity
- [Deliver] Load up to 14% more AC capacity in a single vehicle
- [Install] **(Original)** Up to 4X faster configuration of units with airCloud Tap
- [Commission] Quicker & easier commissioning with Service Checker - get instant reports and visualize detailed operational data
- [Operate] Easy monitoring by airCloud Pro anytime anywhere
- [Maintain] **(Original)** Fast access to error data by using airCloud Tap

3
Seamless comfort

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

4 key claims

- **(Original)** Constant indoor temperature even during part-load operation with SmoothDrive 2.0
- Original & leading-edge technology including GentleCool and CrowdSense, for enhanced occupant comfort
- Neighborhood-friendly outdoor unit with 3dB(A) lower noise output in average by Night Shift Mode in average
- Purifying your indoor air with our affordable IAQ solutions including ViroSense filters and the Aqtiv-Ion ionizer kit

Boost your energy efficiency

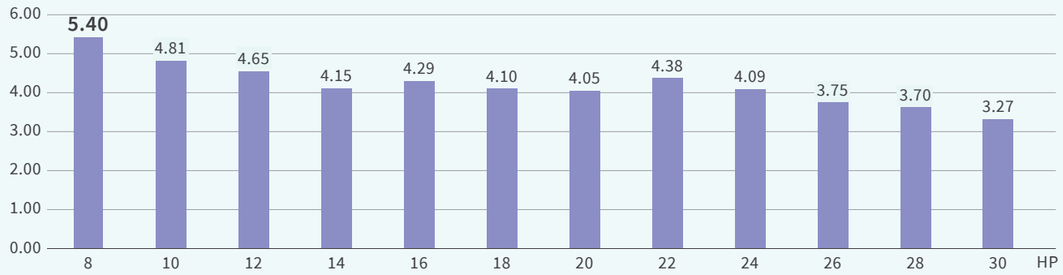
With air365 Max, discover how you can make significant improvements in your energy consumption fee.

High efficiency ratio

· Best-in-class efficiency
· EER up to 5.40

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.

Cooling EER



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

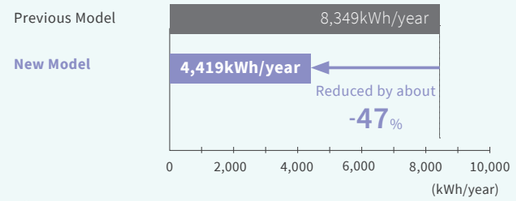
Ideal for Renovation Projects

· Reduce energy consumption and carbon footprint by 47%*

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

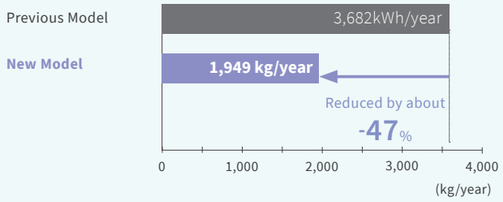
Electricity consumption reduction

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



CO_2 emission reduction

CO_2 emissions
(for a 10HP class (28.0kW) equivalent system)



NOTE
Condition:
1. Both simulation of Seasonal power consumption & CO_2 emissions are a trial calculation value based on JIS B 8616: 2015 (Tokyo office).
(cooling: Apr-19 to Nov-11)(Heating Dec-3 to Mar-15)
(District; Tokyo) (Application: Office)
(AC usage: 6days per week, 8am to 8pm)
2. The CO_2 emissions coefficient is 0.441 kg-CO_2 /kWh. Based on Electric Power Industry Council for a Low Carbon Society in FY20
3. As reference in Japanese domestic model

Less refrigerant required

· Uses 10% less refrigerant in average*

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

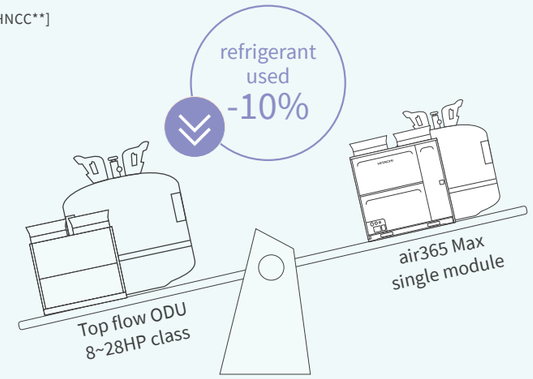
Comparison of (for a system equivalent to 16HP class (45.0kW))
Between [RAS-FSNS previous model VRF of 5years ago] VS [air365 Max RAS-HNCC**]

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

-12% refrigerant* used!

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

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



SmoothDrive™ 2.0 : Superior compressor control

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

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

<Testing Condition>
(at Cooling Operation, Load Factor: Approx. 33%)
Without SmoothDrive; average power consumption 2.46kW
With SmoothDrive; average power consumption 1.49kW
==========
VRF ODU:(RAS-AP280DG3 = RAS-10FSNS)
VRF IDU: 4-way cassette indoor units (RCI-AP140K5 = RCI-5.0FSRP)
Indoor Unit Inlet Temperature: 27°C (Dry Bulb) / 19°C (Wet Bulb)
Ambient Temperature at Air Volume "High": 23°C (Dry Bulb)
Piping Length between Indoor Unit and Outdoor Unit: 15m
Testing Location: Environment Testing Facility at Kansai Denryoku (power supply company)

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

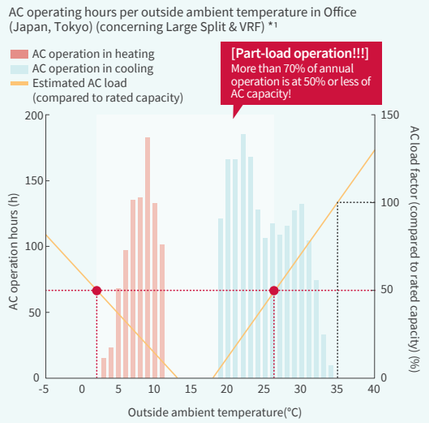
People coming and going…

Changes in outdoor weather conditions…

Variations in temperature preferences…

This causes VRF systems to operate at partial load

More than 70% of the time during a year, a VRF System will be running under part-load conditions, with most systems operating at 50% or less of their capacity*1.
These unpredictable part-load conditions cause real-world performance to deviate significantly from official published energy efficiency data.
It's a key reason why your customer may not fully experience all the energy savings they expected from new equipment.



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

The simplicity of SmoothDrive

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

Why SmoothDrive ?

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

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

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

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

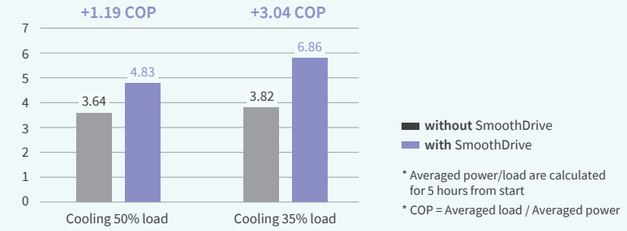
QR Please refer to the leaflet for details

Add YouTube video or SmoothDrive brochure link

Real-world energy efficiency**

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

COP in Cooling mode

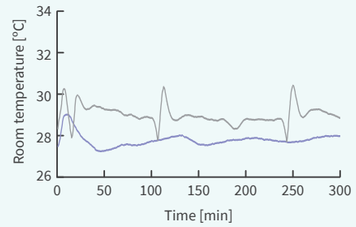


* Averaged power/load are calculated for 5 hours from start
* COP = Averaged load / Averaged power

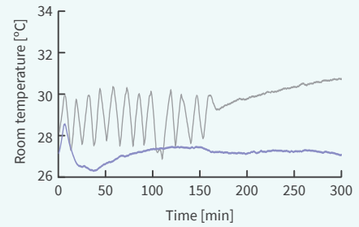
Temperature stability**

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

Cooling 50% Load



Cooling 35% Load



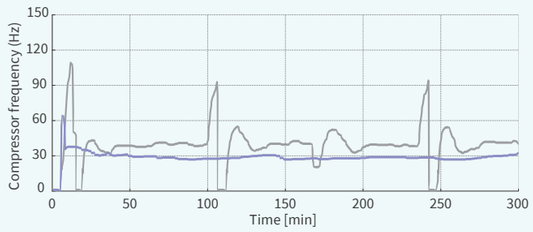
Set temp: 27°C
Initial IDU temp: 27°C / 19°C
Air Inlet temperature of IDUs (**without** SmoothDrive)
Air Inlet temperature of IDUs (**with** SmoothDrive)

Smoother compressor operation**

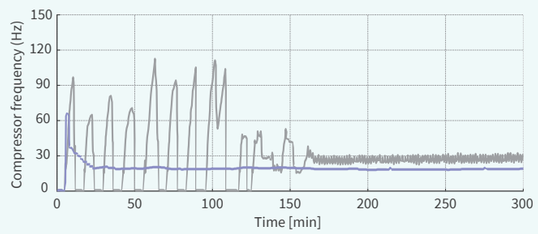
Compressor rotation frequency is more precise and stable.
On/Off cycles are reduced, while peaks and drops are diminished, reducing wear on the compressor.

without SmoothDrive **with** SmoothDrive

Cooling 50% Load



Cooling 35% Load



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

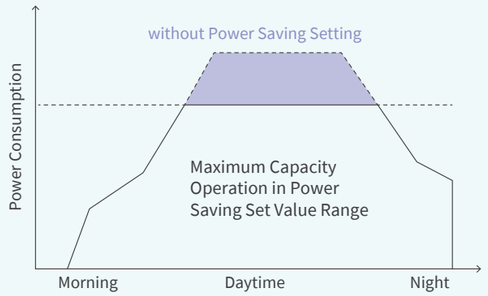
Demand control

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

A Demand Response Enabling Device (DRED) air conditioner allows your electricity provider to control the system at various pre-programmed levels, to manage your demand on the power grid during peak periods.
The aim is to reduce overall power consumption to the supply network at critical peak load times.
This feature can be enabled and disabled on an individual or centralized Hitachi controller. No additional equipment is required.

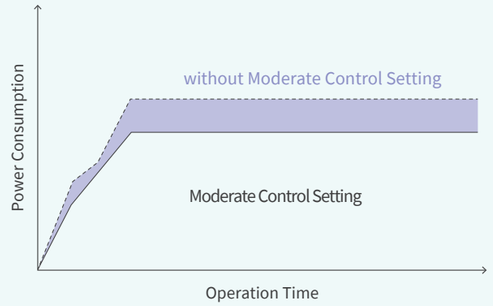
Peak-cut control

Set the limit on the power consumption range



Moderate control

Keep the power consumption within proper limit (40-90%)*

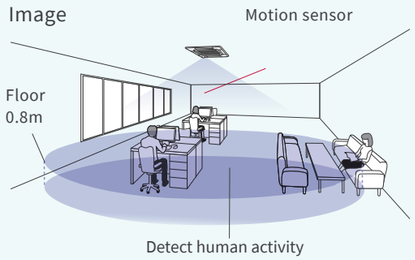


* Power Saving Set Value It can be selected from 100%, 90%, 80%, 70%,60%, 50%,and 40% of reference power consumption.

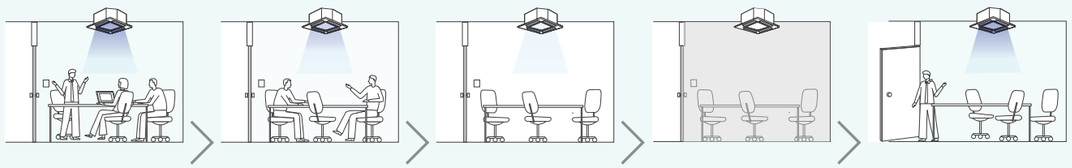
Better energy saving operation (Motion Sensor Control)

- 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
Resume standard operation when people return

Lowering direct environmental impact

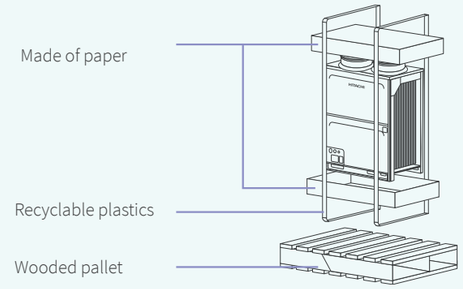
- Complied Regulation

"Localize Contents" [ ]

Localize Contents

- 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



A complete solution at every stage

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

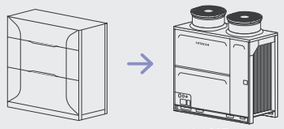
Building Design

Larger capacity, smaller footprint

- Single module capacity up to 30HP per unit
- Up to 36% smaller cabinet footprint*
- Maximum combination up to 120HP
- Maximum IDU connection ratio up to 200%
- Supports vertical stacking of ODUs to save space

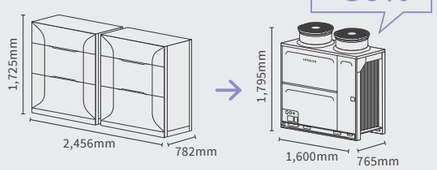
Lower initial cost through faster and easier installation
Occupies less space in buildings, rooftops or balconies
Enables more real estate for greenery or photovoltaic systems

Single module capacity

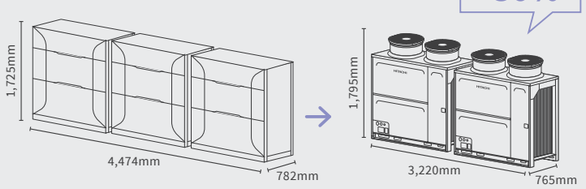


Smaller cabinet footprint

In case of 30HP



In case of 60HP

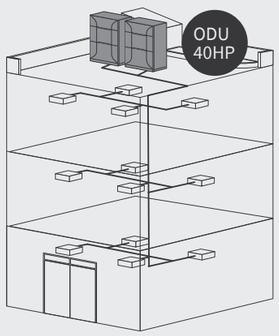


Thanks to 200% IDU connection ratio

In case that IDU total capacity are 52HP

Before

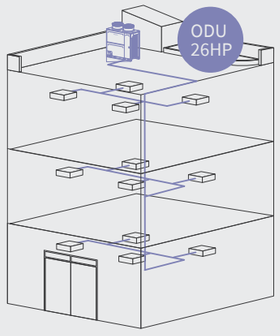
2 ODU Operate 12 IDU
(The least ODU you need to purchase was 40HP unit (CNCQ L-size*2))



IDU 52HP = ODU 40HP*130%

NEW

1 ODU
Operate 12 IDU
(The least ODU you need to purchase is 26HP (NEW cabinet L-size*1))

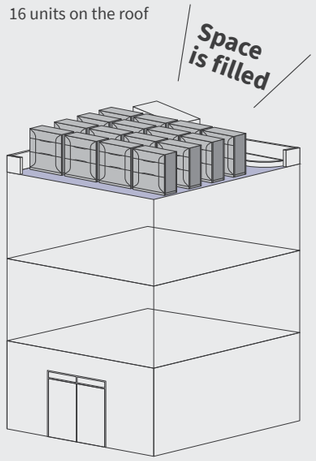


IDU 52HP = ODU 26HP*200%

Thanks to large capacity & installation flexibility

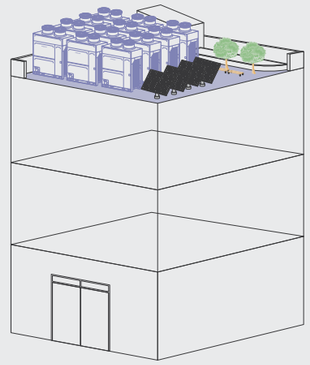
In case that ODU total capacity is 320HP

16 units on the roof



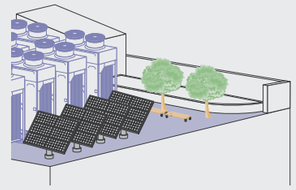
NEW

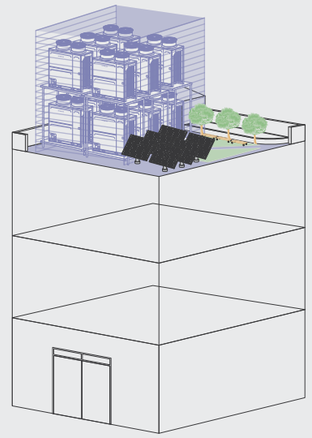
12 units on the roof (Larger Capacity but Smaller units)



Point 1

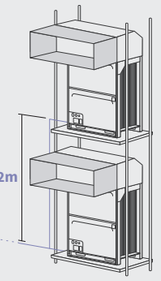
Effective use of space, such as rooftop greening and solar panel installation





Point 2

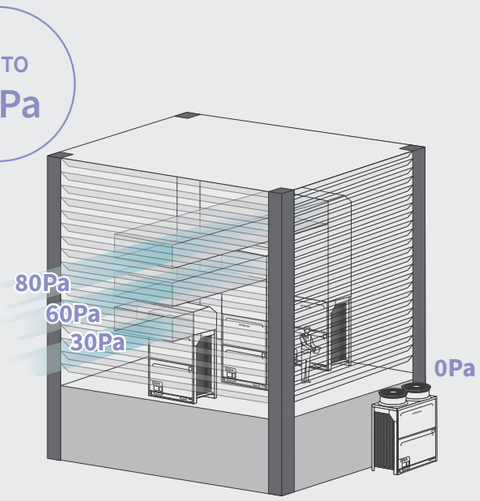
Vertical installation is available now to save the ODU occupied space almost half



High external static pressure (ESP)

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

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



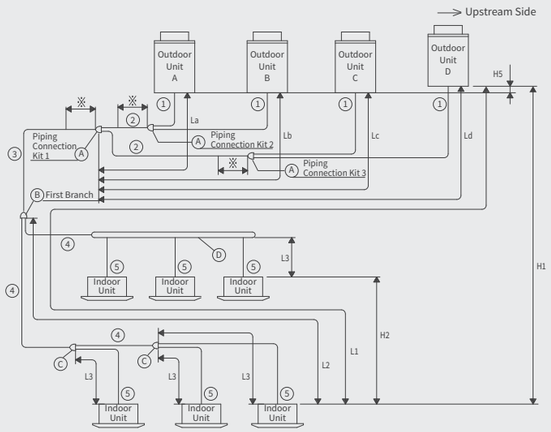
System Design

More flexible piping configuration

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

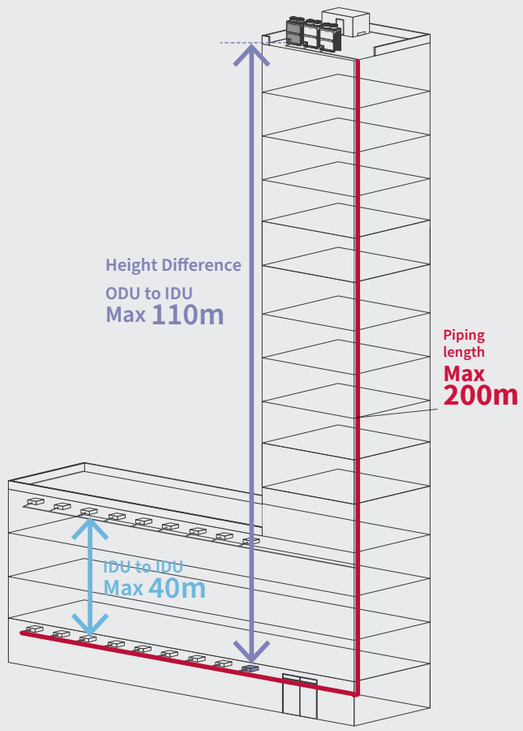
Longer pipe runs and greater height differences enable more flexibility for use in retrofit or renovation projects
Supports installation in high-rise buildings
Depending on building design, enables location of all units on the rooftop for faster installation and easier maintenance
Enables more discrete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

< For 4 Units Combination >



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

					Mark
Total piping length			m	1,000	-
Maximum piping length	Between ODU and IDU	Actual	m	200	L1
		Equivalent	m	225	
	Between "Piping connection kit" and each ODU single module		m	25	La, Lb, Lc, Ld
	Between "1st branch Multi Kit" and farthest IDU		m	100	L2
	Between "Multi Kit" and each connected IDU		m	40	L3
Maximum height difference	Between each single module of 1 ODU		m	2	H5
	Between ODU and IDUs	ODU above IDU (*)	m	110 (50)	H1
		IDU above ODU (*)	m	110 (40)	
	Between IDUs		m	40	H2



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

Widest choice of indoor units

- Total 18 types
- Design award winning design

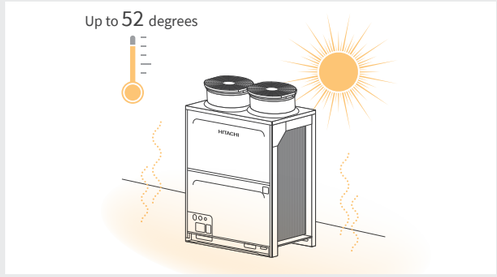
With more than 100 different indoor units to choose, air365 Max supports a wide range of building layouts and interior design requirements
Includes units that can be hidden to suit indoor aesthetics
Exposed units that minimize installation costs
Best balance of cost and aesthetics can be supported by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

Anytime & Anywhere

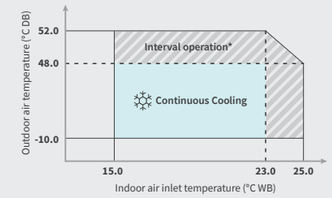
- Cooling in 52 ~ -10°C
- Normal operation even under up to 60m/s
- JRA anti-corrosion treatment available

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

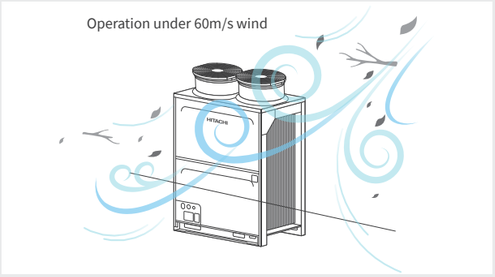


Cooling operation from up to 52°C ambient temperature



*Only in the case where the outside temperature (outdoor 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.

Wind-proof cabinet



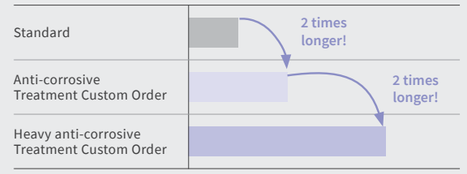
Test machine: RAS-FSNS (confirmed that it has the same structure and has the same durability of air365 Max)
Test conditions: Experiment of blowing wind equivalent to 60m/s
Test results: Operation is possible with no scattered parts or cracks in the refrigerant pipes.
Assessment site: by Large fan at Tsukuba Techno Center of Ryuki Engineering Inc.

Anti-Corrosion Cabinet + Gecko-proof treatment

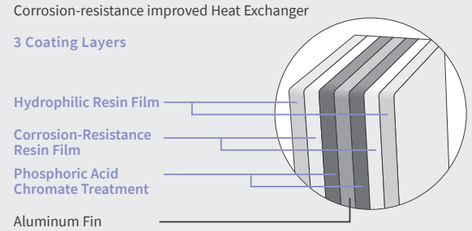
If your project is located in an extreme weather environment, consider applying an anti-corrosion treatment to your air365 Max outdoor units. Treatment can be arranged in factory based on the JRA9002 standard, with multiple layers on every component of the unit. With this treatment, the life expectancy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

Corrosion Resistance

Life-expectancy comparison In salty-air-location



Corrosion-resistance improved Heat Exchanger



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

System Design

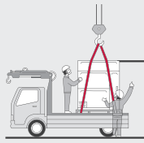
airCloud Select

reddot winner 2022
interface design

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

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

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



Delivery

Easier delivery

· Load up to 14% more AC capacity in a single vehicle

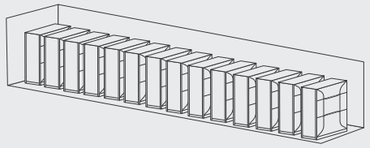
Our air365 Max units are designed to work in harmony with your outdoor and indoor spaces.
Lighter and smaller than ever before, they are easier and cheaper to transport.

Container

In case of 40ft container

Now air365 Max: L cabinet up to 28HP class) can be loaded by 14pcs
Previously, L cabinet (RAS-FSNS/CNCQ) was up to 24HP class
So, just simply if it is the comparison of single module combination, 14% more load.

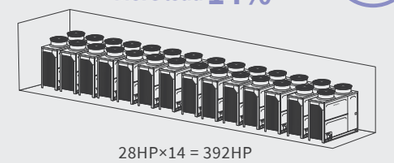
Before



24HP×14 = 336HP

NEW

More load 14%



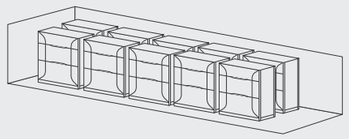
28HP×14 = 392HP

Track

In case of 10ft van

L size up to 10pcs
So, previously, 80HP cabinet (LLLL) *2, and 48HP cabinet (LL) *1 was full of 10ft van.
Now air365 Max: 80HP cabinet (LLL) *2. and 48HP cabinet (LL)*1 is not FULL yet
You can have another two cabinet of LL too! So even same capacity, but still 20% more space left!!!

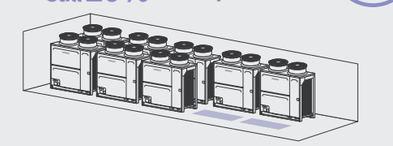
Before



80HP (LLLL) + 80HP (LLLL) +48HP (LL) = 208HP

NEW

Still 20% more space left



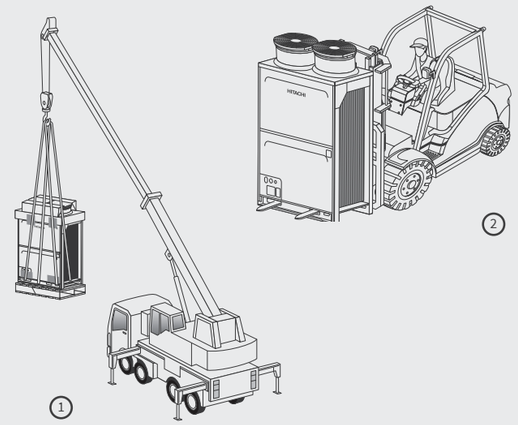
80HP (LLL) + 80HP (LLL) +48HP (LL) = 208HP

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 or craning
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



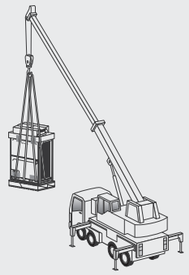
Installation

Easy delivery with holes

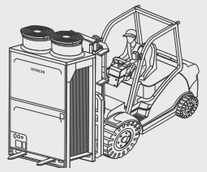
· 4 different types of all delivery can be easily arranged

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 crane too

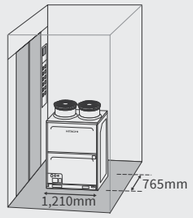


In case of forklift or handlifer, even without pallet, there is a special hole to be transported



Mobile deck can be supported by the frat bottom part

Large yet small footprint cabinet
>> fit in the lift

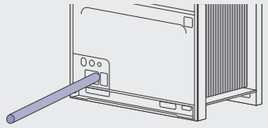


Choice of piping direction

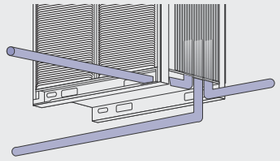
· 4 directions, 9 options

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.

Front

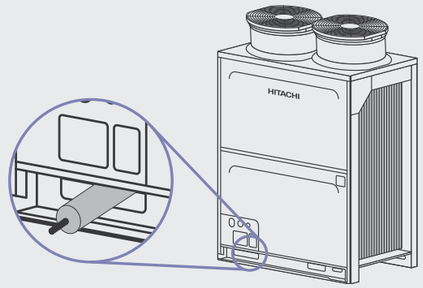


Back



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

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

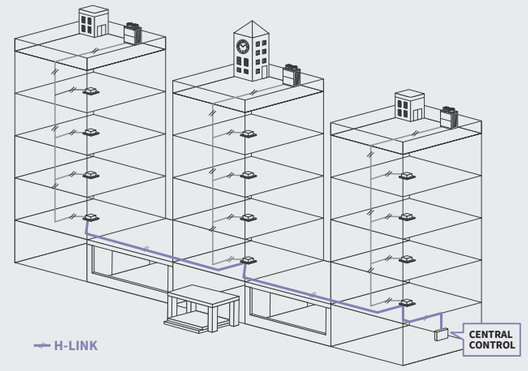


H-LINK: flexible route of communication wiring

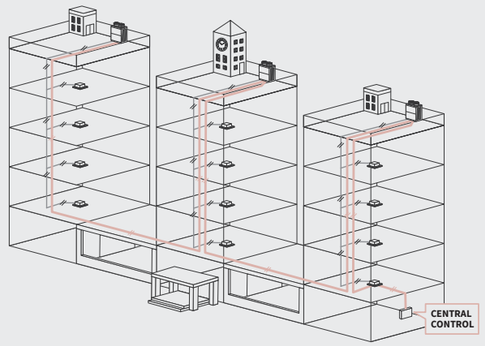
· Faster wiring with H-LINK

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



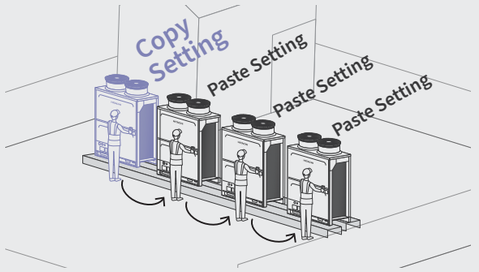
ORIGINAL **airCloud** Tap

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

Faster configuration using our patented airCloud Tap mobile app and NFC (Near-field communication) technology embedded in 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

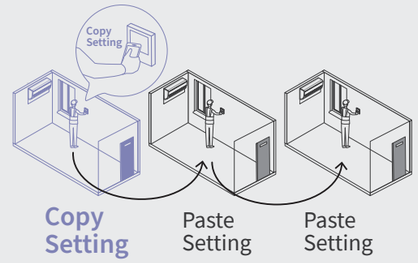
Download airCloud Tap!

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 cooling

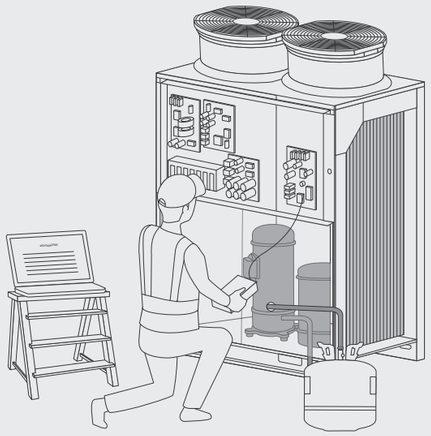
Commission

Service Checker

· Quicker & easier commissioning

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

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

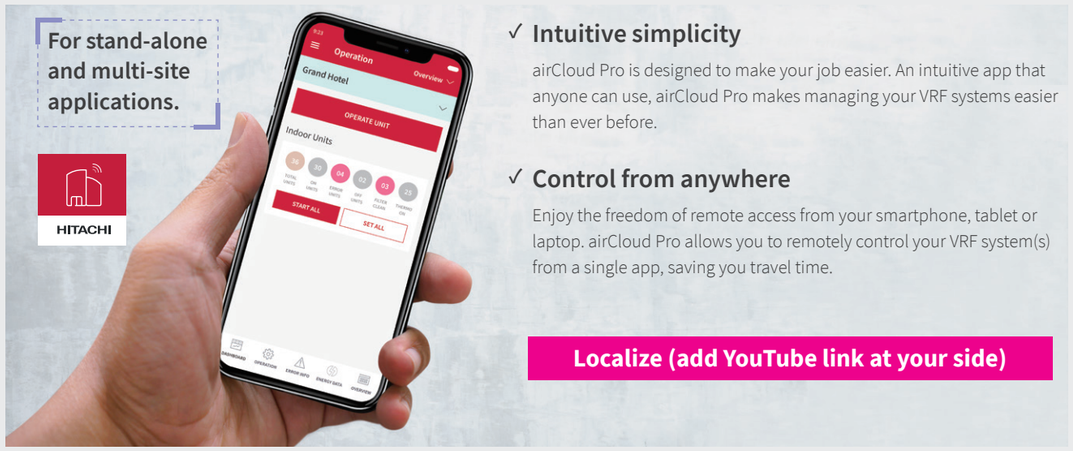


Operation

Monitoring app airCloud Pro

UX DESIGN AWARDS nominated 2020

· 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.

Localize (add YouTube link at your side)

Individual controllers PC-ARFG1 / PC-ARC

Contactless settings via airCloud Tap

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

ADVANCED-COLOR CONTROLLER (PC-ARFG1-*)

reddot winner 2021

EUROPEAN PRODUCT DESIGN AWARD

DESIGN AWARD 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

Localize (add YouTube link at your side)

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

Localize (add YouTube link at your side)

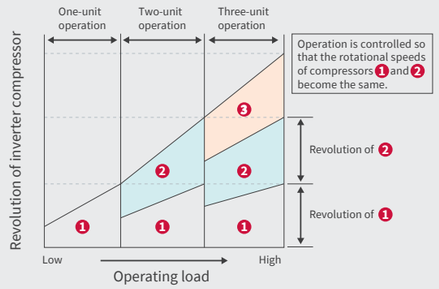
Maintenance

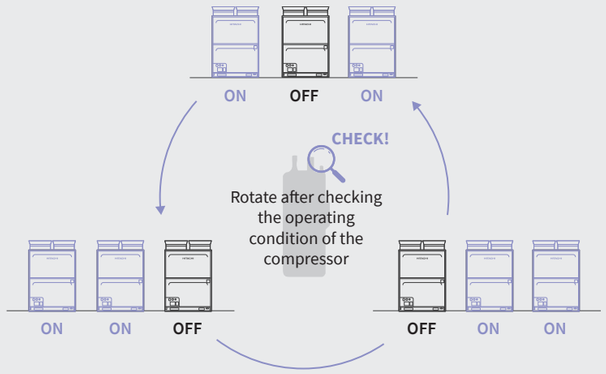
Compressor rotation control

· Extend ODU lifecycle

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

Compressor rotation frequency control (example)



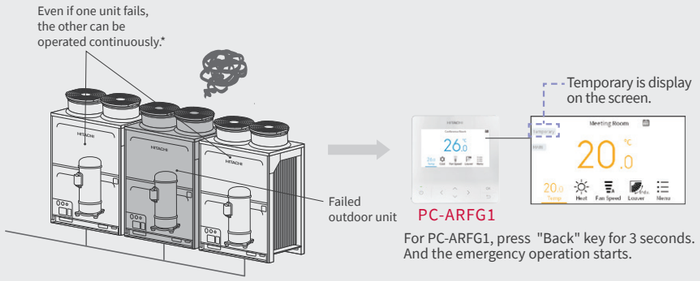


*1 At least 2 outdoor units are required for this function.
*2 Comparison between the rotation operation function and non-rotation operation function based on the same system.

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.



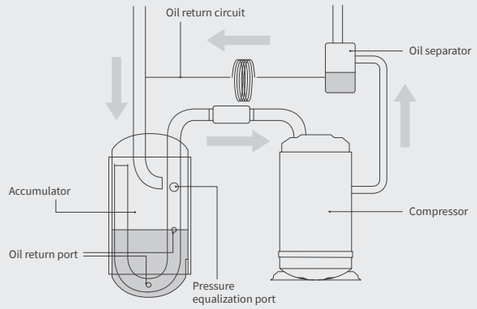
* Emergency operation can be performed within 8 hours after unit stoppage.
Emergency operation cannot be performed when 8 hours have elapsed since unit stoppage.

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 noise–resulting in higher efficiency and greater comfort for occupants

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



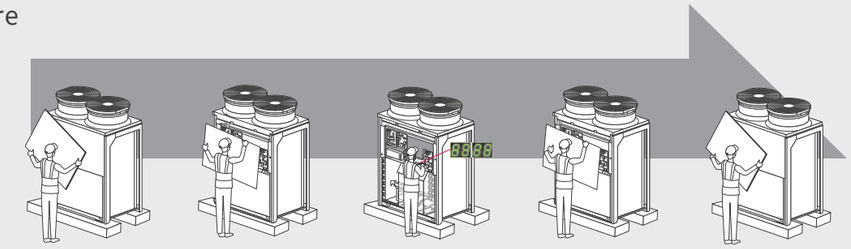
airCloud Tap for faster maintenance

UX DESIGN AWARDS product 2022

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

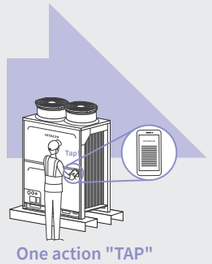
Previously, a maintenance engineer would need to open both the front panel of the cabinet and electricity box panel, then check error codes on the PCB.
Now with the airCloud Tap app, an engineer can simply 'tap' the outdoor units with their smartphone to access a full range of configuration settings and download operational data if required for basic troubleshooting.
No need to open the panel to check simple data anymore!!!
The technology is also embedded in individual controllers enabling access to indoor unit settings.

Before

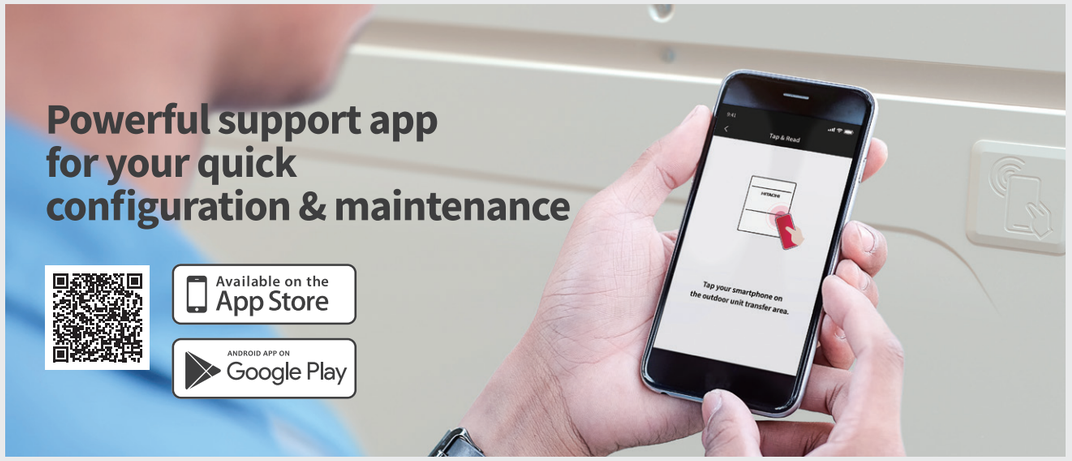


NEW

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



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



Localize (add YouTube link at your side)

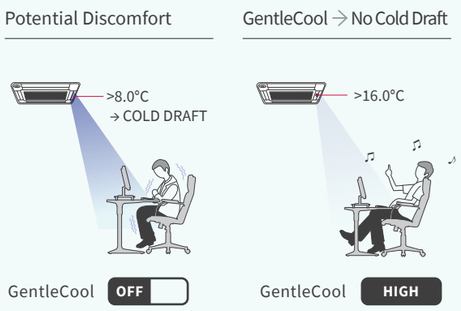
Enjoy the perfect air anywhere, anytime

Indoor comfort

GENTLECOOL

· Prevents cold drafts all the time

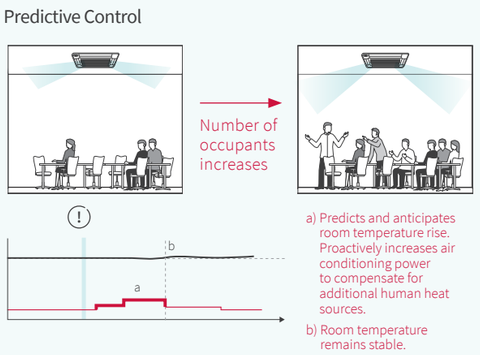
When starting up air conditioners can discharge very cold air to quickly reach the required temperature for the room, but this can result in cold drafts making occupants uncomfortable. With GentleCool you can adjust the balance between achieving a lower room temperature quickly and avoiding cold drafts.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

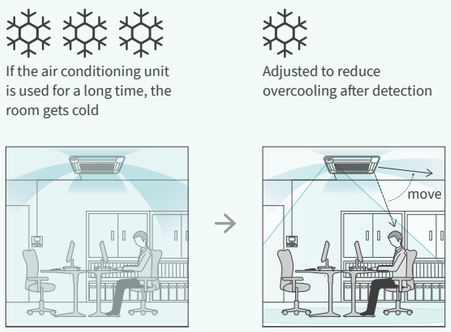
With CrowdSense technology, our VRF cassette units can determine how many people are in a space and adjust the cooling capacity accordingly, so the room will never get too hot or cold, whether it's crowded or almost empty.



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.



DIRECT/INDIRECT CONTROL

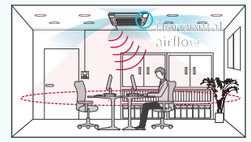
· Occupants can choose whether they want to directly feel airflow

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 air blowing directly on them.

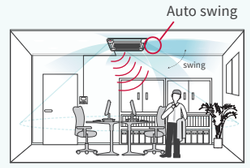
(Image) during cooling



Direct Air Distribution

Conditioning the air by Auto-Swing airflow so that people can feel the direct cold air

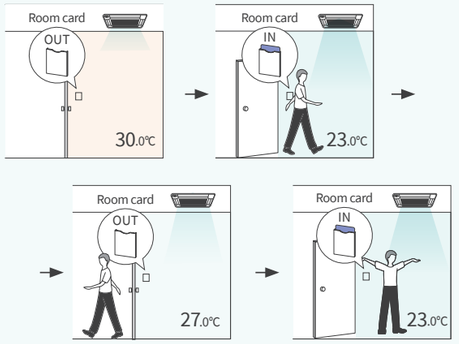
(Image) during cooling



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 Comfort-satisfaction & energy saving operation.

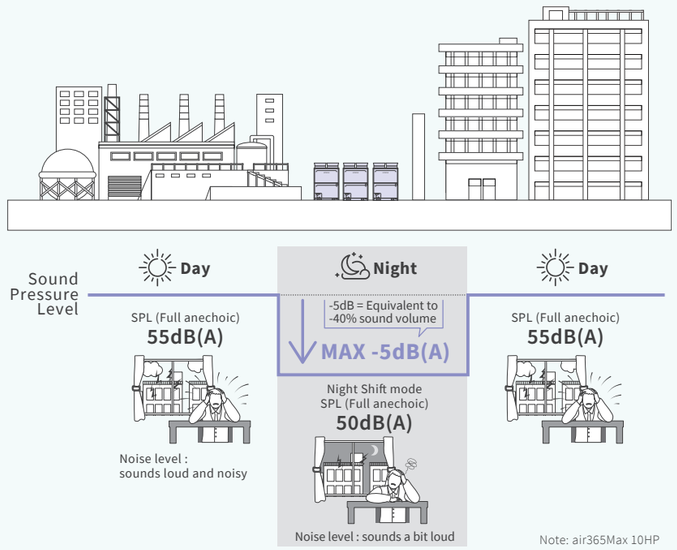


Low Noise Operation

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

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

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



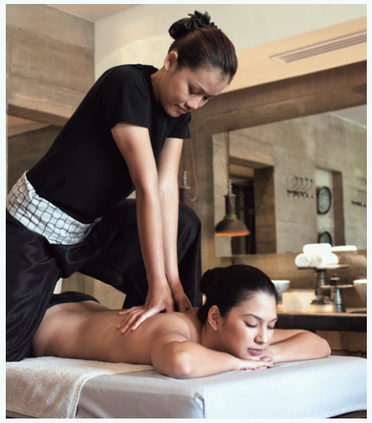
Note: air365Max 10HP

DIRECT capacity control SmoothDrive™ 2.0

· Constant indoor temperature even during part-load operation

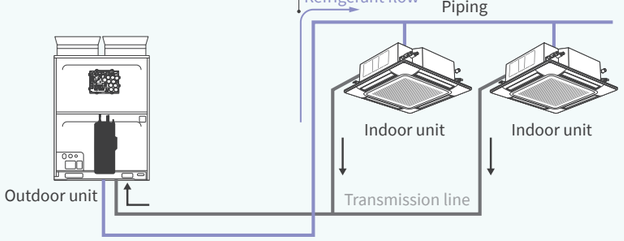
With continuous monitoring and adjustment of the capacity based on compressor speed, indoor temperatures can be maintained more accurately.

Localize (add YouTube link at your side)



Calculates the correct **refrigerant mass-flow** according to load information.

Allows proper amount of refrigerant to flow to IDU at each loading condition.

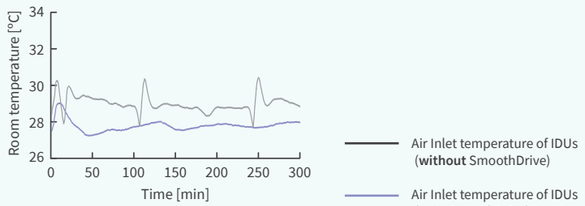


- SmoothDrive helps the scroll compressor to run continuously and smoothly even at part-load condition.
- Our original load-speculation technology helps reduce energy loss caused by scroll compressor switching on/off.
- Consequently, constant room temperature & energy savings can be achieved.

50% Load

Cooling Mode

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



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

IAQ matter

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

SARS-CoV-2 Inhibition by over 99.9%	Virus Inhibition by over 99.7%	Bacteria removal by over 99%	Life span of up to 4 years	Quick anti-virus transformation

AQtiv-Ion Kit

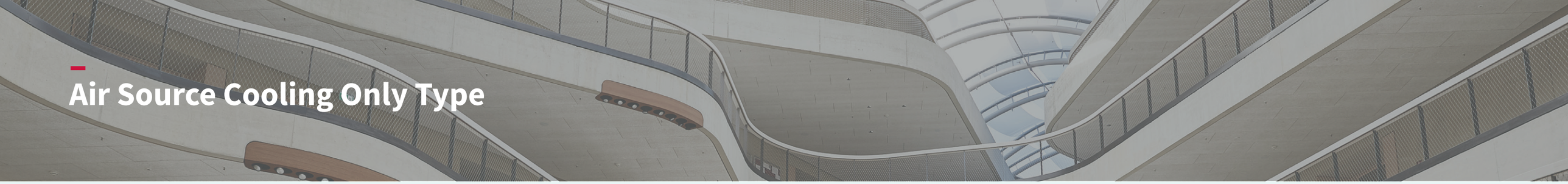
AQtiv-Ion Kit for Ducted units

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

Optional accessory filter
AQtiv-Ion Kit

BENEFITS

SARS-CoV-2	Escherichia coli	Influenza virus	Staphylococcus aureus	PM2.5	Formaldehyde	Ammonia
-99.9% (Inhibition rate)	-96.64% (Inhibition rate)	-96.85% (Removal rate)	-93.88% (Inhibition rate)	-94.46% (Removal rate)	-74.90% (Removal rate)	-73.20% (Removal rate)



Air Source Cooling Only Type

LINE UP

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

Footprint 0.73m²

8HP class/22.4kW/187kg/52.0dB(A)
10HP class/28.0kW/192kg/55.0dB(A)
12HP class/33.5kW/208kg/57.0dB(A)
14HP class/40.0kW/212kg/59.0dB(A)

Footprint 0.93m²

16HP class/45.0kW/253kg/61.0dB(A)
18HP class/50.4kW/259kg/61.0dB(A)
20HP class/56.0kW/259kg/61.0dB(A)

Single module up to 30HP class!

Footprint 1.22m²

22HP class/61.5kW/336kg/61.0dB(A)
24HP class/67.0kW/336kg/61.0dB(A)
26HP class/73.0kW/355kg/62.0dB(A)
28HP class/77.5kW/355kg/62.0dB(A)
30HP class/84.0kW/355kg/65.0dB(A)

Footprint 3.40m²

62HP class/173.4kW/931kg/66.0dB(A)
64HP class/178.9kW/931kg/66.0dB(A)
66HP class/184.4kW/931kg/66.0dB(A)

Footprint 3.70m²

68HP class/190.0kW/1,008kg/66.0dB(A)
70HP class/195.5kW/1,008kg/66.0dB(A)
72HP class/201.0kW/1,008kg/66.0dB(A)
74HP class/207.0kW/1,027kg/66.0dB(A)
76HP class/213.0kW/1,046kg/66.0dB(A)
78HP class/219.0kW/1,065kg/67.0dB(A)
80HP class/223.5kW/1,065kg/67.0dB(A)
82HP class/228.0kW/1,065kg/67.0dB(A)
84HP class/232.5kW/1,065kg/67.0dB(A)
86HP class/239.0kW/1,065kg/68.0dB(A)
88HP class/245.5kW/1,065kg/68.0dB(A)
90HP class/252.0kW/1,065kg/70.0dB(A)

Footprint 1.67m²

32HP class/90.4kW/471kg/63.0dB(A)

Footprint 1.87m²

34HP class/95.4kW/512kg/64.0dB(A)
36HP class/100.8kW/518kg/64.0dB(A)

Footprint 4.94m²

92HP class/257.0kW/1,344kg/67.0dB(A)
94HP class/262.5kW/1,344kg/67.0dB(A)
96HP class/268.0kW/1,344kg/67.0dB(A)
98HP class/274.0kW/1,363kg/67.0dB(A)
100HP class/280.0kW/1,382kg/68.0dB(A)
102HP class/286.0kW/1,401kg/68.0dB(A)
104HP class/292.0kW/1,420kg/68.0dB(A)
106HP class/296.5kW/1,420kg/68.0dB(A)
108HP class/301.0kW/1,420kg/68.0dB(A)
110HP class/305.5kW/1,420kg/68.0dB(A)
112HP class/310.0kW/1,420kg/68.0dB(A)
114HP class/316.5kW/1,420kg/69.0dB(A)
116HP class/323.0kW/1,420kg/70.0dB(A)
118HP class/329.5kW/1,420kg/70.0dB(A)
120HP class/336.0kW/1,420kg/71.0dB(A)

Footprint 2.16m²

38HP class/106.5kW/589kg/64.0dB(A)
40HP class/111.9kW/595kg/64.0dB(A)
42HP class/117.4kW/595kg/64.0dB(A)

Footprint 2.46m²

44HP class/123.0kW/672kg/64.0dB(A)
46HP class/128.5kW/672kg/64.0dB(A)
48HP class/134.0kW/672kg/64.0dB(A)
50HP class/140.0kW/691kg/64.5dB(A)
52HP class/146.0kW/710kg/65.0dB(A)
54HP class/150.5kW/710kg/65.0dB(A)
56HP class/155.0kW/710kg/65.0dB(A)
58HP class/162.3kW/710kg/67.0dB(A)
60HP class/167.8kW/710kg/68.0dB(A)

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
Piping Length: 7.5 Meters Piping Lift: 0 Meter
(Note 2) The electric characteristics show values of single outdoor unit.
(Note 3) The configuring outdoor unit cannot be combined other than shown in the table.
(Note 4) 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 5) The demensions show values when a space between outdoor units is 20 mm.
(Note 6) In the case of setting low ambient temperature at cooling operation, the minimum capacity of connectable indoor unit should be 2.5HP.
(Note 7) The total capacity of combined indoor units should be not over 150% against the outdoor unit capacity when 0.6HP indoor unit is combined.
(Note 8) Refrigerant piping has some installation limitation in specific condition. Please refer to technical manual for details.
(Note 9) 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. Refer to technical manual for details.
(Note 10) It is recommended to follow “Recommended IDU number” to avoid the cold draft during the heating operation. Please refer to technical manual for details.
(Note 11) Some restrictions would be applied when the height difference between outdoor units and indoor units are 50m or more for outdoor unit is higher case, and 40m or more for outdoor units is lower case. Please refer to technical manual for details.

Specifications

				S				M			L			
														
Capacity range			**Unit**	**8HP**	**10HP**	**12HP**	**14HP**	**16HP**	**18HP**	**20HP**	**22HP**	**24HP**	**26HP**	**28HP**
Outdoor unit model				**RAS-080CNCCLW**	**RAS-100CNCCLW**	**RAS-120CNCCLW**	**RAS-140CNCCLW**	**RAS-160CNCCLW**	**RAS-180CNCCLW**	**RAS-200CNCCLW**	**RAS-220CNCCLW**	**RAS-240CNCCLW**	**RAS-260CNCCLW**	**RAS-280CNCCLW**
Combination of modules				-	-	-	-	-	-	-	-	-	-	-
Power supply			-	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz
Cooling capacity			kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	67.0	73.0	77.5
Outer dimensions (W x D x H)			mm	950×765×1,795	950×765×1,795	950×765×1,795	950×765×1,795	1,210×765×1,795	1,210×765×1,795	1,210×765×1,795	1,600×765×1,795	1,600×765×1,795	1,600×765×1,795	1,600×765×1,795
Packaging Measurement			m^3	1.62	1.62	1.62	1.62	2.03	2.03	2.03	2.65	2.65	2.65	2.65
Weight	Net weight		kg	187	192	208	212	253	259	259	336	336	355	355
	Gross weight		kg	203	208	224	228	273	279	279	359	359	378	378
Noise	Cooling rating	SPL (Full-anechoic)	dB(A)	52.0	55.0	57.0	59.0	61.0	61.0	61.0	61.0	61.0	62.0	62.0
	Night shift mode (noise reduction setting)	SPL (Full-anechoic)	dB(A)	49.0	50.0	52.0	54.0	56.0	56.0	56.0	57.0	57.0	60.0	60.0
Electric characteristics	Power consumption		kW	4.15	5.82	7.20	9.64	10.49	12.29	13.83	14.04	16.38	19.47	20.95
	Operating current		A	8.3	10.4	12.6	16.3	19.2	21.7	24.1	25.7	29.6	33.6	36.2
	Breaker (A)		A	25	25	32	32	40	50	50	50	63	80	80
	MAX current		A	16.1	20.0	23.3	27.7	32.7	39.7	40.0	42.7	53.0	58.3	59.4
Energy efficiency		Cooling EER	-	5.40	4.81	4.65	4.15	4.29	4.10	4.05	4.38	4.09	3.75	3.70
Compressor	Compressor type		-	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)
	Motor output		kW	3.50	5.04	6.14	8.30	9.28	10.90	12.33	6.23×2	7.28×2	8.64×2	9.33×2
Outdoor unit Fan	Rated air volume		m^3/min	175	175	198	207	256	263	263	329	348	375	375
	Number of Fan Motors		-	1	1	1	2	2	2	2	2	2	2	2
	Motor output		kW	0.26	0.26	0.43	0.51	0.35×2	0.38×2	0.38×2	0.4×2	0.47×2	0.58×2	0.58×2
Main pipe size	Gas piping		mm	19.05	22.2	25.4	25.4	28.58	28.58	28.58	28.58	28.58	31.75	31.75
	Liquid piping		mm	9.52	9.52	12.7	12.7	12.7	15.88	15.88	15.88	15.88	19.05	19.05
	Tubing connection method		-	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection
Operating temperature range			°C DB	-5°C (-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	-5°C (-10°C)~48<52>°C
Maximum External static pressure			Pa	80	80	80	80	80	80	80	80	80	80	80
Maximum Total piping length			m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Maximum piping length	Between ODU and IDU	Actual	m	200	200	200	200	200	200	200	200	200	200	200
		Equivalent	m	225	225	225	225	225	225	225	225	225	225	225
	Between "Piping connection kit" and each ODU single module		m	-	-	-	-	-	-	-	-	-	-	-
	Between "1st branch Multi Kit" and farthest IDU		m	100	100	100	100	100	100	100	100	100	100	100
	Between "Multi Kit" and each connected IDU		m	40	40	40	40	40	40	40	40	40	40	40
Maximum height difference	Between each single module of 1 ODU		m	-	-	-	-	-	-	-	-	-	-	-
	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)	110 (50)
		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)
	Between IDUs		m	40	40	40	40	40	40	40	40	40	40	40
Refrigerant	Type		-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Initial charge amount		kg	5.6	5.6	8.3	8.3	9.5	10.2	10.2	11.2	11.6	11.6	11.6
	Maximum additional charge amount		kg	28.0	28.0	36.0	36.0	40.0	40.0	40.0	46.0	46.0	56.0	56.0
	Refrigerant control mode		-	Microcomputer-controlled electronic expansion valve				Microcomputer-controlled electronic expansion valve						
Refrigerant oil	Type		-	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge amount		L	6.0	6.0	6.0	6.0	6.9	6.9	6.9	8.4	8.4	8.4	8.4
With Indoor Unit	Connected capacity ratio		%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%
	Maximum Number of connectable units (recommended number of units)		-	20 (8)	25 (10)	30 (10)	36 (16)	40 (16)	45 (16)	50 (18)	55 (20)	60 (26)	64 (26)	64 (32)
	Connectable minimum capacity		-	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class

Specifications

				L	MS	MM		LM			LL			
														
Capacity range			Unit	30HP	32HP	34HP	36HP	38HP	40HP	42HP	44HP	46HP	48HP	50HP
Outdoor unit model				RAS-300CNCCLW	RAS-320CNCCLW	RAS-340CNCCLW	RAS-360CNCCLW	RAS-380CNCCLW	RAS-400CNCCLW	RAS-420CNCCLW	RAS-440CNCCLW	RAS-460CNCCLW	RAS-480CNCCLW	RAS-500CNCCLW
Combination of modules				-	RAS-180CNCCLW RAS-140CNCCLW	RAS-180CNCCLW RAS-160CNCCLW	RAS-180CNCCLW RAS-180CNCCLW	RAS-220CNCCLW RAS-160CNCCLW	RAS-220CNCCLW RAS-180CNCCLW	RAS-240CNCCLW RAS-180CNCCLW	RAS-220CNCCLW RAS-220CNCCLW	RAS-240CNCCLW RAS-220CNCCLW	RAS-240CNCCLW RAS-240CNCCLW	RAS-260CNCCLW RAS-240CNCCLW
Power supply			-	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz
Cooling capacity			kW	84.0	90.4	95.4	100.8	106.5	111.9	117.4	123.0	128.5	134.0	140.0
Outer dimensions (W x D x H)			mm	1,600×765×1,795	2,180×765×1,795	2,440×765×1,795	2,440×765×1,795	2,830×765×1,795	2,830×765×1,795	2,830×765×1,795	3,220×765×1,795	3,220×765×1,795	3,220×765×1,795	3,220×765×1,795
Packaging Measurement			m^3	3.65	2.03+1.62	2.03+2.03	2.03+2.03	2.65+2.03	2.65+2.03	2.65+2.03	2.65+2.65	2.65+2.65	2.65+2.65	2.65+2.65
Weight	Net weight		kg	355	212+259	253+259	259+259	253+336	259+336	259+336	336+336	336+336	336+336	336+355
	Gross weight		kg	378	228+279	273+279	279+279	273+359	279+359	279+359	359+359	359+359	359+359	359+378
Noise	Cooling rating	SPL (Full-anechoic)	dB(A)	65.0	63.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	65.0
	Night shift mode (noise reduction setting)	SPL (Full-anechoic)	dB(A)	60.0	58.0	59.0	59.0	60.0	60.0	60.0	60.0	60.0	60.0	62.0
Electric characteristics	Power consumption		kW	25.69	21.93	22.78	24.59	24.53	26.33	28.67	28.08	30.42	32.76	35.85
	Operating current		A	42.9	38.0	40.9	43.4	44.9	47.4	51.3	51.4	55.3	59.2	63.2
	Breaker (A)		A	80	50+32	50+40	50+50	50+40	50+50	63+50	50+50	63+50	63+63	80+63
	MAX current		A	65.6	67.4	72.4	79.4	75.4	82.4	92.7	85.4	95.7	106.0	111.3
Energy efficiency		Cooling EER	-	3.27	4.12	4.19	4.10	4.34	4.25	4.09	4.38	4.22	4.09	3.91
Compressor	Compressor type		-	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)
	Motor output		kW	11.46×2	10.9+8.3	10.9+9.28	(10.9)×2	6.23×2+9.28	6.23×2+10.9	7.28×2+10.9	(6.23×2)×2	7.28×2+6.23×2	(7.28×2)×2	8.64×2+7.28×2
	Rated air volume		m^3/min	405	207+263	256+263	263+263	256+329	263+329	263+348	329+329	329+348	348+348	348+375
Outdoor unit Fan	Number of Fan Motors		-	2+1	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2
	Motor output		kW	0.71×2	0.38×2+0.51	0.38×2+0.35×2	(0.38×2)×2	0.4×2+0.35×2	0.4×2+0.38×2	0.47×2+0.38×2	(0.4×2)×2	0.47×2+0.4×2	(0.47×2)×2	0.58×2+0.47×2
Main pipe size	Gas piping		mm	31.75	31.75	31.75	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
	Liquid piping		mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Tubing connection method		-	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection
Operating temperature range			°C DB	-5°C (-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	-5°C (-10°C)~48<52>°C
Maximum External static pressure			Pa	80	80	80	80	80	80	80	80	80	80	80
Maximum Total piping length			m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Maximum piping length	Between ODU and IDU	Actual	m	200	200	200	200	200	200	200	200	200	200	200
		Equivalent	m	225	225	225	225	225	225	225	225	225	225	225
	Between "Piping connection kit" and each ODU single module		m	25	25	25	25	25	25	25	25	25	25	25
	Between "1st branch Multi Kit" and farthest IDU		m	100	100	100	100	100	100	100	100	100	100	100
	Between "Multi Kit" and each connected IDU		m	40	40	40	40	40	40	40	40	40	40	40
Maximum height difference	Between each single module of 1 ODU		m	2	2	2	2	2	2	2	2	2	2	2
	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)	110 (50)
		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)
	Between IDUs		m	40	40	40	40	40	40	40	40	40	40	40
Refrigerant	Type		-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Initial charge amount		kg	11.6	18.5	19.7	20.4	20.7	21.4	21.8	22.4	22.8	23.2	23.2
	Maximum additional charge amount		kg	56.0	76.0	80.0	80.0	86.0	86.0	86.0	92.0	92.0	92.0	102.0
	Refrigerant control mode		-	Microcomputer-controlled electronic expansion valve				Microcomputer-controlled electronic expansion valve						
Refrigerant oil	Type		-	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge amount		L	8.4	12.9	13.8	13.8	15.3	15.3	15.3	16.8	16.8	16.8	16.8
With Indoor Unit	Connected capacity ratio		%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%	50~200%
	Maximum Number of connectable units (recommended number of units)		-	64 (32)	64 (32)	64 (32)	64 (32)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)
	Connectable minimum capacity		-	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class

Specifications

				LL					LMM				LLL		
															
Capacity range			Unit	52HP	54HP	56HP	58HP	60HP	62HP	64HP	66HP	68HP	70HP	72HP
Outdoor unit model				RAS-520CNCCLW	RAS-540CNCCLW	RAS-560CNCCLW	RAS-580CNCCLW	RAS-600CNCCLW	RAS-620CNCCLW	RAS-640CNCCLW	RAS-660CNCCLW	RAS-680CNCCLW	RAS-700CNCCLW	RAS-720CNCCLW
Combination of modules				RAS-260CNCCLW RAS-260CNCCLW	RAS-280CNCCLW RAS-260CNCCLW	RAS-280CNCCLW RAS-280CNCCLW	RAS-300CNCCLW RAS-280CNCCLW	RAS-300CNCCLW RAS-300CNCCLW	RAS-220CNCCLW RAS-220CNCCLW RAS-180CNCCLW	RAS-240CNCCLW RAS-220CNCCLW RAS-180CNCCLW	RAS-240CNCCLW RAS-240CNCCLW RAS-180CNCCLW	RAS-240CNCCLW RAS-220CNCCLW RAS-220CNCCLW	RAS-240CNCCLW RAS-240CNCCLW RAS-220CNCCLW	RAS-240CNCCLW RAS-240CNCCLW RAS-240CNCCLW
Power supply			-	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz
Cooling capacity			kW	146.0	150.5	155.0	161.5	168.0	173.4	178.9	184.4	190.0	195.5	201.0
Outer dimensions (W x D x H)			mm	3,220×765×1,795	3,220×765×1,795	3,220×765×1,795	3,220×765×1,795	3,220×765×1,795	4,450×765×1,795	4,450×765×1,795	4,450×765×1,795	4,840×765×1,795	4,840×765×1,795	4,840×765×1,795
Packaging Measurement			m^3	2.65+2.65	2.65+2.65	2.65+2.65	2.65+2.65	2.65+2.65	2.65+2.65+2.03	2.65+2.65+2.03	2.65+2.65+2.03	2.65+2.65+2.65	2.65+2.65+2.65	2.65+2.65+2.65
Weight	Net weight		kg	355+355	355+355	355+355	355+355	355+355	259+336+336	259+336+336	259+336+336	336+336+336	336+336+336	336+336+336
	Gross weight		kg	378+378	378+378	378+378	378+378	378+378	279+359+359	279+359+359	279+359+359	359+359+359	359+359+359	359+359+359
Noise	Cooling rating	SPL (Full-anechoic)	dB(A)	65.0	65.0	65.0	67.0	68.0	66.0	66.0	66.0	66.0	66.0	66.0
	Night shift mode (noise reduction setting)	SPL (Full-anechoic)	dB(A)	63.0	63.0	63.0	63.0	63.0	61.0	61.0	61.0	62.0	62.0	62.0
Electric characteristics	Power consumption		kW	38.93	40.41	41.89	46.63	51.38	40.37	42.72	45.06	44.46	46.80	49.14
	Operating current		A	67.2	69.8	72.4	79.1	85.8	73.1	77.0	80.9	81.0	84.9	88.8
	Breaker (A)		A	80+80	80+80	80+80	80+80	80+80	50+50+50	63+50+50	63+63+50	63+50+50	63+63+50	63+63+63
	MAX current		A	116.6	117.7	118.8	125.0	131.2	125.1	135.4	145.7	138.4	148.7	159.0
Energy efficiency		Cooling EER	-	3.75	3.72	3.70	3.46	3.27	4.30	4.19	4.09	4.27	4.18	4.09
Compressor	Compressor type		-	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)
	Motor output		kW	(8.64×2)×2	9.33×2+8.64×2	(9.33×2)×2	11.46×2+9.33×2	(11.46×2)×2	(6.23×2)×2+10.9	7.28×2+6.23×2+10.9	(7.28×2)×2+10.9	7.28×2+(6.23×2)×2	(7.28×2)×2+6.23×2	(7.28×2)×3
Outdoor unit Fan	Rated air volume		m^3/min	375+375	375+375	375+375	375+405	405+405	263+329+329	263+329+348	263+348+348	329+329+348	329+348+348	348+348+348
	Number of Fan Motors		-	2+2	2+2	2+2	2+2+2	2+2+2	2+2+2	2+2+2	2+2+2	2+2+2	2+2+2	2+2+2
	Motor output		kW	(0.58×2)×2	0.58×2+0.58×2	(0.58×2)×2	0.71×2+0.58×2	(0.71×2)×2	(0.4×2)×2+0.38×2	0.47×2+0.4×2+0.38×2	(0.47×2)×2+0.38×2	0.47×2+(0.4×2)×2	(0.47×2)×2+0.4×2	(0.47×2)×3
Main pipe size	Gas piping		mm	38.1	38.1	44.45	44.45	44.45	44.45	44.45	44.45	44.45	44.45	44.45
	Liquid piping		mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	22.2	22.2	22.2
	Tubing connection method		-	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection
Operating temperature range			°C DB	-5°C (-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	-5°C (-10°C)~48<52>°C
Maximum External static pressure			Pa	80	80	80	80	80	80	80	80	80	80	80
Maximum Total piping length			m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Maximum piping length	Between ODU and IDU	Actual	m	200	200	200	200	200	200	200	200	200	200	200
		Equivalent	m	225	225	225	225	225	225	225	225	225	225	225
	Between "Piping connection kit" and each ODU single module		m	25	25	25	25	25	25	25	25	25	25	25
	Between "1st branch Multi Kit" and farthest IDU		m	100	100	100	100	100	100	100	100	100	100	100
	Between "Multi Kit" and each connected IDU		m	40	40	40	40	40	40	40	40	40	40	40
Maximum height difference	Between each single module of 1 ODU		m	2	2	2	2	2	2	2	2	2	2	2
	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)	110 (50)
		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)
	Between IDUs		m	40	40	40	40	40	40	40	40	40	40	40
Refrigerant	Type		-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Initial charge amount		kg	23.2	23.2	23.2	23.2	23.2	32.6	33.0	33.4	34.0	34.4	34.8
	Maximum additional charge amount		kg	112.0	112.0	112.0	112.0	112.0	132.0	132.0	132.0	138.0	138.0	138.0
	Refrigerant control mode		-	Microcomputer-controlled electronic expansion valve				Microcomputer-controlled electronic expansion valve						
Refrigerant oil	Type		-	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge amount		L	16.8	16.8	16.8	16.8	16.8	23.7	23.7	23.7	25.2	25.2	25.2
With Indoor Unit	Connected capacity ratio		%	50~200%	50~200%	50~180%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%
	Maximum Number of connectable units (recommended number of units)		-	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)
	Connectable minimum capacity		-	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class

Specifications

				LLL									LLLL	
														
Capacity range			Unit	74HP	76HP	78HP	80HP	82HP	84HP	86HP	88HP	90HP	92HP	94HP
Outdoor unit model				RAS-740CNCCLW	RAS-760CNCCLW	RAS-780CNCCLW	RAS-800CNCCLW	RAS-820CNCCLW	RAS-840CNCCLW	RAS-860CNCCLW	RAS-880CNCCLW	RAS-900CNCCLW	RAS-920CNCCLW	RAS-940CNCCLW
Combination of modules				RAS-260CNCCLW RAS-240CNCCLW RAS-240CNCCLW	RAS-260CNCCLW RAS-260CNCCLW RAS-240CNCCLW	RAS-260CNCCLW RAS-260CNCCLW RAS-260CNCCLW	RAS-280CNCCLW RAS-260CNCCLW RAS-260CNCCLW	RAS-280CNCCLW RAS-280CNCCLW RAS-260CNCCLW	RAS-280CNCCLW RAS-280CNCCLW RAS-280CNCCLW	RAS-300CNCCLW RAS-280CNCCLW RAS-280CNCCLW	RAS-300CNCCLW RAS-300CNCCLW RAS-280CNCCLW	RAS-300CNCCLW RAS-300CNCCLW RAS-300CNCCLW	RAS-240CNCCLW RAS-240CNCCLW RAS-220CNCCLW RAS-220CNCCLW	RAS-240CNCCLW RAS-240CNCCLW RAS-240CNCCLW RAS-220CNCCLW
Power supply			-	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz
Cooling capacity			kW	207.0	213.0	219.0	223.5	228.0	232.5	239.0	245.5	252.0	257.0	262.5
Outer dimensions (W x D x H)			mm	4,840×765×1,795	4,840×765×1,795	4,840×765×1,795	4,840×765×1,795	4,840×765×1,795	4,840×765×1,795	4,840×765×1,795	4,840×765×1,795	4,840×765×1,795	6,460×765×1,795	6,460×765×1,795
Packaging Measurement			m^3	2.65+2.65+2.65	2.65+2.65+2.65	2.65+2.65+2.65	2.65+2.65+2.65	2.65+2.65+2.65	2.65+2.65+2.65	2.65+2.65+2.65	2.65+2.65+2.65	2.65+2.65+2.65	2.65+2.65+2.65+2.65	2.65+2.65+2.65+2.65
Weight	Net weight		kg	336+336+355	336+355+355	355+355+355	355+355+355	355+355+355	355+355+355	355+355+355	355+355+355	355+355+355	336+336+336+336	336+336+336+336
	Gross weight		kg	359+359+378	359+378+378	378+378+378	378+378+378	378+378+378	378+378+378	378+378+378	378+378+378	378+378+378	359+359+359+359	359+359+359+359
Noise	Cooling rating	SPL (Full-anechoic)	dB(A)	66.0	66.0	67.0	67.0	67.0	67.0	68.0	69.0	70.0	67.0	67.0
	Night shift mode (noise reduction setting)	SPL (Full-anechoic)	dB(A)	63.0	64.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	63.0	63.0
Electric characteristics	Power consumption		kW	52.23	55.31	58.40	59.88	61.36	62.84	67.58	72.32	77.06	60.85	63.19
	Operating current		A	92.8	96.8	100.8	103.4	106.0	108.6	115.3	122.0	128.7	110.6	114.5
	Breaker (A)		A	80+63+63	80+80+63	80+80+80	80+80+80	80+80+80	80+80+80	80+80+80	80+80+80	80+80+80	63+63+50+50	63+63+63+50
	MAX current		A	164.3	169.6	174.9	176.0	177.1	178.2	184.4	190.6	196.8	191.4	201.7
Energy efficiency		Cooling EER	-	3.96	3.85	3.75	3.73	3.72	3.70	3.54	3.39	3.27	4.22	4.15
Compressor	Compressor type		-	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)
	Motor output		kW	8.64×2+(7.28×2)×2	(8.64×2)×2+7.28×2	(8.64×2)×3	9.33×2+(8.64×2)×2	(9.33×2)×2+8.64×2	(9.33×2)×3	11.46×2+(9.33×2)×2	(11.46×2)×2+9.33×2	(11.46×2)×3	(7.28×2)×2+(6.23×2)×2	(7.28×2)×3+6.23×2
Outdoor unit Fan	Rated air volume		m^3/min	348+348+375	348+375+375	375+375+375	375+375+375	375+375+375	375+375+375	375+375+405	375+405+405	405+405+405	329+329+348+348	329+348+348+348
	Number of Fan Motors		-	2+2+2	2+2+2	2+2+2	2+2+2	2+2+2	2+2+2	2+2+2+2	2+2+2+2	2+2+2+2	2+2+2+2	2+2+2+2
	Motor output		kW	0.58×2+(0.47×2)×2	(0.58×2)×2+0.47×2	(0.58×2)×3	0.58×2+(0.58×2)×2	(0.58×2)×2+0.58×2	(0.58×2)×3	0.71×2+(0.58×2)×2	(0.71×2)×2+0.58×2	(0.71×2)×3	(0.47×2)×2+(0.4×2)×2	(0.47×2)×3+0.4×2
Main pipe size	Gas piping		mm	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
	Liquid piping		mm	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	25.4	25.4	25.4
	Tubing connection method		-	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection
Operating temperature range			°C DB	-5°C (-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	-5°C (-10°C)~48<52>°C
Maximum External static pressure			Pa	80	80	80	80	80	80	80	80	80	80	80
Maximum Total piping length			m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Maximum piping length	Between ODU and IDU	Actual	m	200	200	200	200	200	200	200	200	200	200	200
		Equivalent	m	225	225	225	225	225	225	225	225	225	225	225
	Between "Piping connection kit" and each ODU single module		m	25	25	25	25	25	25	25	25	25	25	25
	Between "1st branch Multi Kit" and farthest IDU		m	100	100	100	100	100	100	100	100	100	100	100
	Between "Multi Kit" and each connected IDU		m	40	40	40	40	40	40	40	40	40	40	40
Maximum height difference	Between each single module of 1 ODU		m	2	2	2	2	2	2	2	2	2	2	2
	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)	110 (50)
		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)
	Between IDUs		m	40	40	40	40	40	40	40	40	40	40	40
Refrigerant	Type		-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Initial charge amount		kg	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	45.6	46.0
	Maximum additional charge amount		kg	148.0	158.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0	184.0	184.0
	Refrigerant control mode		-	Microcomputer-controlled electronic expansion valve				Microcomputer-controlled electronic expansion valve						
Refrigerant oil	Type		-	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge amount		L	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	33.6	33.6
With Indoor Unit	Connected capacity ratio		%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%
	Maximum Number of connectable units (recommended number of units)		-	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)
	Connectable minimum capacity		-	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class

Specifications

LLLL

Capacity range			Unit	96HP	98HP	100HP	102HP	104HP	106HP	108HP	110HP	112HP	114HP	116HP
Outdoor unit model				RAS-960CNCCLW	RAS-980CNCCLW	RAS-H00CNCCLW	RAS-H02CNCCLW	RAS-H04CNCCLW	RAS-H06CNCCLW	RAS-H08CNCCLW	RAS-H10CNCCLW	RAS-H12CNCCLW	RAS-H14CNCCLW	RAS-H16CNCCLW
Combination of modules				RAS-240CNCCLW RAS-240CNCCLW RAS-240CNCCLW RAS-240CNCCLW	RAS-260CNCCLW RAS-240CNCCLW RAS-240CNCCLW RAS-240CNCCLW	RAS-260CNCCLW RAS-260CNCCLW RAS-240CNCCLW RAS-240CNCCLW	RAS-260CNCCLW RAS-260CNCCLW RAS-260CNCCLW RAS-240CNCCLW	RAS-260CNCCLW RAS-260CNCCLW RAS-260CNCCLW RAS-260CNCCLW	RAS-280CNCCLW RAS-260CNCCLW RAS-260CNCCLW RAS-260CNCCLW	RAS-280CNCCLW RAS-280CNCCLW RAS-260CNCCLW RAS-260CNCCLW	RAS-280CNCCLW RAS-280CNCCLW RAS-280CNCCLW RAS-260CNCCLW	RAS-280CNCCLW RAS-280CNCCLW RAS-280CNCCLW RAS-280CNCCLW	RAS-300CNCCLW RAS-280CNCCLW RAS-280CNCCLW RAS-280CNCCLW	RAS-300CNCCLW RAS-300CNCCLW RAS-280CNCCLW RAS-280CNCCLW
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	268.0	274.0	280.0	286.0	292.0	296.5	301.0	305.5	310.0	316.5	323.0
Outer dimensions (W x D x H)			mm	6,460×765×1,795	6,460×765×1,795	6,460×765×1,795	6,460×765×1,795	6,460×765×1,795	6,460×765×1,795	6,460×765×1,795	6,460×765×1,795	6,460×765×1,795	6,460×765×1,795	6,460×765×1,795
Packaging Measurement			m^3	2.65+2.65+2.65+2.65	2.65+2.65+2.65+2.65	2.65+2.65+2.65+2.65	2.65+2.65+2.65+2.65	2.65+2.65+2.65+2.65	2.65+2.65+2.65+2.65	2.65+2.65+2.65+2.65	2.65+2.65+2.65+2.65	2.65+2.65+2.65+2.65	2.65+2.65+2.65+2.65	2.65+2.65+2.65+2.65
Weight	Net weight		kg	336+336+336+336	336+336+336+355	336+336+355+355	336+355+355+355	355+355+355+355	355+355+355+355	355+355+355+355	355+355+355+355	355+355+355+355	355+355+355+355	355+355+355+355
	Gross weight		kg	359+359+359+359	359+359+359+378	359+359+378+378	359+378+378+378	378+378+378+378	378+378+378+378	378+378+378+378	378+378+378+378	378+378+378+378	378+378+378+378	378+378+378+378
Noise	Cooling rating	SPL (Full-anechoic)	dB(A)	67.0	67.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	69.0	70.0
	Night shift mode (noise reduction setting)	SPL (Full-anechoic)	dB(A)	63.0	64.0	65.0	65.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
Electric characteristics	Power consumption		kW	65.53	68.61	71.70	74.78	77.87	79.35	80.83	82.30	83.78	88.53	93.27
	Operating current		A	118.4	122.4	126.4	130.4	134.4	137.0	139.6	142.2	144.8	151.5	158.2
	Breaker (A)		A	63+63+63+63	80+63+63+63	80+80+63+63	80+80+80+63	80+80+80+80	80+80+80+80	80+80+80+80	80+80+80+80	80+80+80+80	80+80+80+80	80+80+80+80
	MAX current		A	212.0	217.3	222.6	227.9	233.2	234.3	235.4	236.5	237.6	243.8	250.0
Energy efficiency		Cooling EER	-	4.09	3.99	3.91	3.82	3.75	3.74	3.72	3.71	3.70	3.58	3.46
Compressor	Compressor type		-	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)	Hermetic(Scroll)
	Motor output		kW	(7.28×2)×4	8.64×2+(7.28×2)×3	(8.64×2)×2+(7.28×2)×2	(8.64×2)×3+7.28×2	(8.64×2)×4	9.33×2+(8.64×2)×3	(9.33×2)×2+(8.64×2)×2	(9.33×2)×3+8.64×2	(9.33×2)×4	11.46×2+(9.33×2)×3	(11.46×2)×2+(9.33×2)×2
Outdoor unit Fan	Rated air volume		m^3/min	348+348+348+348	348+348+348+375	348+348+375+375	348+375+375+375	375+375+375+375	375+375+375+375	375+375+375+375	375+375+375+375	375+375+375+375	375+375+375+405	375+375+405+405
	Number of Fan Motors		-	2+2+2+2	2+2+2+2	2+2+2+2	2+2+2+2	2+2+2+2	2+2+2+2	2+2+2+2	2+2+2+2	2+2+2+2	2+2+2+2	2+2+2+2
	Motor output		kW	(0.47×2)×4	0.58×2+(0.47×2)×3	(0.58×2)×2+(0.47×2)×2	(0.58×2)×3+0.47×2	(0.58×2)×4	0.58×2+(0.58×2)×3	(0.58×2)×2+(0.58×2)×2	(0.58×2)×3+0.58×2	(0.58×2)×4	0.71×2+(0.58×2)×3	(0.71×2)×2+(0.58×2)×2
Main pipe size	Gas piping		mm	50.8	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
	Liquid piping		mm	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	28.58	28.58
	Tubing connection method		-	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection	Welding connection
Operating temperature range			°C DB	-5°C (-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	-5°C (-10°C)~48<52>°C
Maximum External static pressure			Pa	80	80	80	80	80	80	80	80	80	80	80
Maximum Total piping length			m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Maximum piping length	Between ODU and IDU	Actual	m	200	200	200	200	200	200	200	200	200	200	200
		Equivalent	m	225	225	225	225	225	225	225	225	225	225	225
	Between "Piping connection kit" and each ODU single module		m	25	25	25	25	25	25	25	25	25	25	25
	Between "1st branch Multi Kit" and farthest IDU		m	100	100	100	100	100	100	100	100	100	100	100
	Between "Multi Kit" and each connected IDU		m	40	40	40	40	40	40	40	40	40	40	40
Maximum height difference	Between each single module of 1 ODU		m	2	2	2	2	2	2	2	2	2	2	2
	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)	110 (50)
		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)
	Between IDUs		m	40	40	40	40	40	40	40	40	40	40	40
Refrigerant	Type		-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Initial charge amount		kg	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
	Maximum additional charge amount		kg	184.0	194.0	204.0	214.0	224.0	224.0	224.0	224.0	224.0	224.0	224.0
	Refrigerant control mode		-	Microcomputer-controlled electronic expansion valve				Microcomputer-controlled electronic expansion valve						
Refrigerant oil	Type		-	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge amount		L	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
With Indoor Unit	Connected capacity ratio		%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%	50~150%
	Maximum Number of connectable units (recommended number of units)		-	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)	64 (38)
	Connectable minimum capacity		-	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class	0.6HP class

Specifications

LLLL

Capacity range			Unit	118HP	120HP
Outdoor unit model				**RAS-H18CNCCLW**	**RAS-H20CNCCLW**
Combination of modules				RAS-300CNCCLW RAS-300CNCCLW RAS-300CNCCLW RAS-280CNCCLW	RAS-300CNCCLW RAS-300CNCCLW RAS-300CNCCLW RAS-300CNCCLW
Power supply			-	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz
Cooling capacity			kW	329.5	336.0
Outer dimensions (W x D x H)			mm	6,460×765×1,795	6,460×765×1,795
Packaging Measurement			m^3	2.65+2.65+2.65+2.65	2.65+2.65+2.65+2.65
Weight	Net weight		kg	355+355+355+355	355+355+355+355
	Gross weight		kg	378+378+378+378	378+378+378+378
Noise	Cooling rating	SPL (Full-anechoic)	dB(A)	70.0	71.0
	Night shift mode (noise reduction setting)	SPL (Full-anechoic)	dB(A)	66.0	66.0
Electric characteristics	Power consumption		kW	98.01	102.75
	Operating current		A	164.9	171.6
	Breaker (A)		A	80+80+80+80	80+80+80+80
	MAX current		A	256.2	262.4
Energy efficiency		Cooling EER	-	3.36	3.27
Compressor	Compressor type		-	Hermetic(Scroll)	Hermetic(Scroll)
	Motor output		kW	(11.46×2)×3+9.33×2	(11.46×2)×4
Outdoor unit Fan	Number of Fan Motors		-	2+2+2+2	2+2+2+2
	Motor output		kW	(0.71×2)×3+0.58×2	(0.71×2)×4
Main pipe size	Gas piping		mm	54.0	54.0
	Liquid piping		mm	28.58	28.58
	Tubing connection method		-	Welding connection	Welding connection
Operating temperature range			°C DB	-5°C (-10°C)~48<52>°C	-5°C (-10°C)~48<52>°C
Maximum External static pressure			Pa	80	80
Maximum Total piping length			m	1,000	1,000
Maximum piping length	Between ODU and IDU	Actual	m	200	200
		Equivalent	m	225	225
	Between "Piping connection kit" and each ODU single module		m	25	25
	Between "1st branch Multi Kit" and farthest IDU		m	100	100
	Between "Multi Kit" and each connected IDU		m	40	40
Maximum height difference	Between each single module of 1 ODU		m	2	2
	Between ODU and IDUs	ODU above IDU (*)	m	110 (50)	110 (50)
		IDU above ODU (*)	m	110 (40)	110 (40)
	Between IDUs		m	40	40
Refrigerant	Type		-	R410A	R410A
	Initial charge amount		kg	46.4	46.4
	Maximum additional charge amount		kg	224.0	224.0
	Refrigerant control mode		-	Microcomputer-controlled electronic expansion valve	
Refrigerant oil	Type		-	FVC68D	FVC68D
	Charge amount		L	33.6	33.6
With Indoor Unit	Connected capacity ratio		%	50~150%	50~150%
	Maximum Number of connectable units (recommended number of units)		-	64 (38)	64 (38)
	Connectable minimum capacity		-	0.6HP class	0.6HP class

Option

1) Piping Connection Kit

*For Cooling Only (2 Pipes)

Model name	Applicable Outdoor Unit		Remarks
	Combined X modules	air365 Max	
MC-NP21SA1	2	32 to 48 HP	for Gas : 1 for Liquid : 1
MC-NP22TA		50 to 60 HP	
MC-NP31TA	3	62 to 90 HP	for Gas : 2 for Liquid : 2
MC-NP40TA	4	92 to 120 HP	for Gas : 3 for Liquid : 3

2) Multi-Kit

*For Cooling Only (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 120

(After First Branch)

Model Name	Total Indoor Unit HP
MW-NP282A3	< 12
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

Accessories

1) Air Outlet Duct Kit

	Air Outlet Duct Kit (Available upon order)
S cabinet	FDK-TP20A
M cabinet	FDK-TP20B
L cabinet	FDK-TP20C

2) Protection Net

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

3) Air Inlet Grille

	Air Inlet Grille	
	Back	Right & LeftSide
S cabinet	PSN-TP30BA	PSN-TP30LR x 2
M cabinet	PSN-TP30BB	PSN-TP30LR x 2
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

Line-up summary

Over 18 types available!

DUCTED | The ultimate invisibility.

NEW

HIGH ESP (AC)

RPIH-HNAUN1Q, RPI-FSNQ

NEW

HIGH ESP (DC)

RPIH-HNDUSQ

NEW

MEDIUM ESP (AC)

RPIM-HNAUN1Q, RPI-FSN3Q

NEW

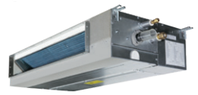
LOW ESP (AC)

RPIL-HNAUN1Q

NEW

COMPACT (AC)

RPIZ-HNATN1Q



NEW

COMPACT (DC)

RPIZ-HNDTS1Q

CASSETTE | Consistent air reaching every corner of a room.

4-WAY CASSETTE (DC)

RCI-FSRP

Color variation

NEW

4-WAY CASSETTE (DC)

RCI-FSKDN1Q

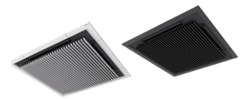
TWIN-SENSE SYSTEM

RCI-FSRP+ P-AP160NAE2

RCI-FSKDN1Q+ P-AP160NAE2+OPT-EZJ01

Silent-Iconic™ Design Panel

P-GP160NAP, P-GP160NAPU, P-GP160KAP



4-WAY COMPACT CASSETTE (DC)

RCIM-FSRE

2-WAY CASSETTE (DC)

RCD-FSR

1-WAY CASSETTE (DC)

RCS-FSR

OTHERS | Minimal installation or retrofit works.

WALL MOUNTED (DC)

RPK-FSRM

WALL MOUNTED (DC)

RPK-HNBUSQ

FLOOR/CEILING CONVERTIBLE (AC)

RPFC-FSNQ

CEILING SUSPENDED (DC)

RPC-FSR

FLOOR CONCEALED (AC)

RPFI-FSNQ

Our key indoor features

Hitachi air, making a difference.

EXCLUSIVE

GENTLECOOL (FOR COOLING OPERATION)

RCI-FSRP (all panels) RCI-FSKDN1Q | RCIM-FSRE | RCD-FSR | RCS-FSR | RPK-FSRM | RPC-FSR | 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

RCI-FSRP + P-AP160NAE2 | RCI-FSKDN1Q + P-AP160NAE2 + OPT-EZJ01 | PC-ARFG1

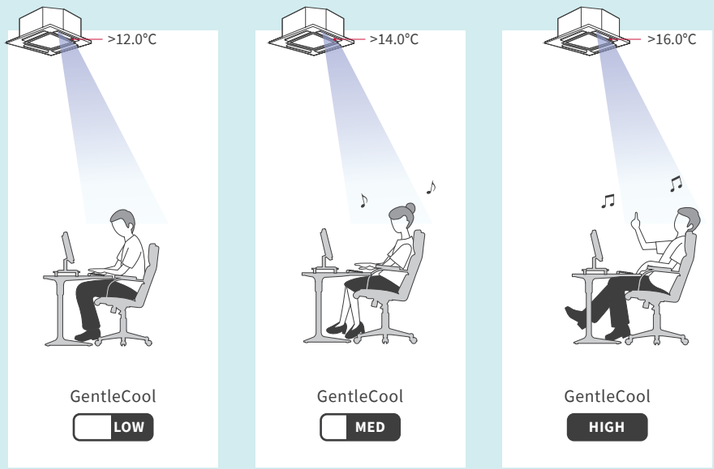
Ideal for meeting rooms, restaurants, museums and other venues experiencing rapid changes of occupancy.

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.

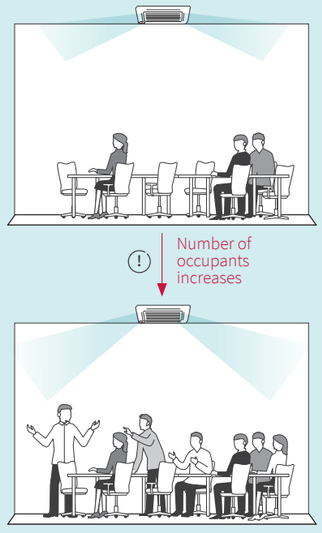
- Hitachi Twin-Sense cassette detects the crowd's arrival or departure.
- Using AI, the cassette can anticipate the addition or reduction of human heat sources and immediately adjusts the air conditioning accordingly.

Potential discomfort.

GentleCool : no cold draft.



Crowd-Sense action during cooling.



Crowd-Sense may not be effective or might be less effective in the following 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.

Our key indoor features

Hitachi air, making a difference.

FLOORSENSE COOL (FOR COOLING OPERATION)

RCI-FSRP
+
P-AP160NAE2

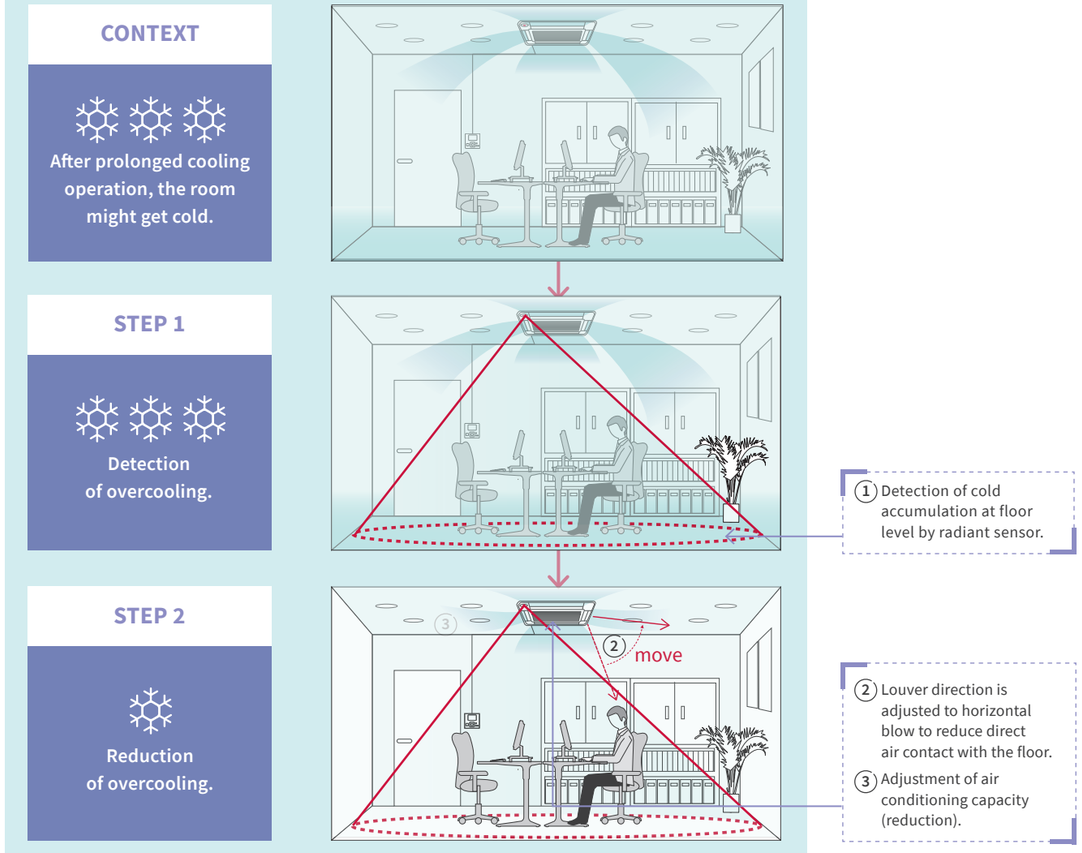
RCI-FSKDN1Q
+
P-AP160NAE2
+
OPT-EZJ01

PC-ARFG1

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

RCI-FSRP
+
P-AP160NAE2

RCI-FSKDN1Q
+
P-AP160NAE2
+
OPT-EZJ01

PC-ARFG1

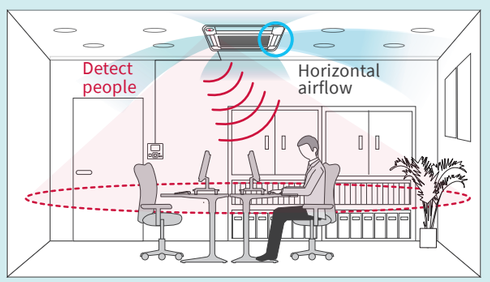
Want to feel the air? Or do you prefer imperceptible air?
Choose the preferred air sensation and let the air conditioner adjusts the louver direction to your liking.

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.

Indirect air flow: a gentle, subtle air to go unnoticed.

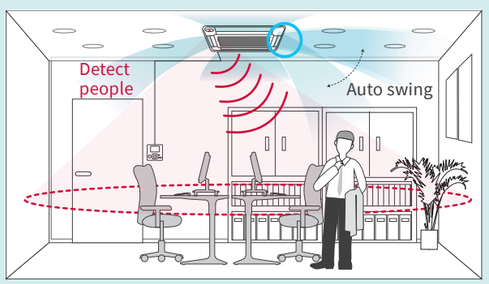
Horizontal air flow, for circulation above and around occupants without air blowing directly on them.



Ideal in places where occupants remain immobile for a long time: restaurants, offices, theaters...

Direct air flow: air flowing sensation to the body.

Auto swing of louvers, to ensure that every occupant can feel the air blowing.



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

Notes:
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

RCI-FSRP
(all panels)
RCI-FSKDN1Q

RCIM-FSRE

RCD-FSR

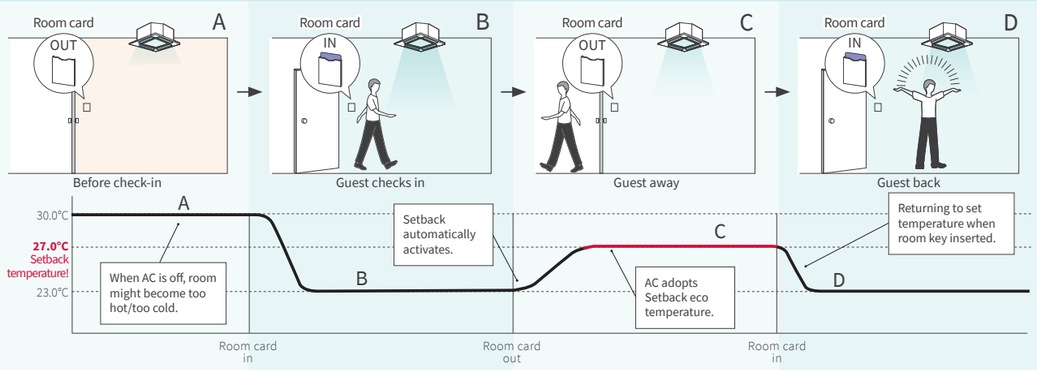
RCS-FSR

RPK-FSRM

RPC-FSR

PC-ARFG1

Interlock the air conditioner with hotel key card, and set an eco temperature for the time of room vacancy.



AUTO-SAVE (WITH MOTION SENSOR)

RCI-FSRP
(P-AP160NAE2)

RCI-FSKDN1Q
+
P-AP160NAE2
+
OPT-EZJ01

RCIM-FSRE
(SOR-NEC)

RCD-FSR
(SOR-NED)

RCS-FSR
(SOR-NES)

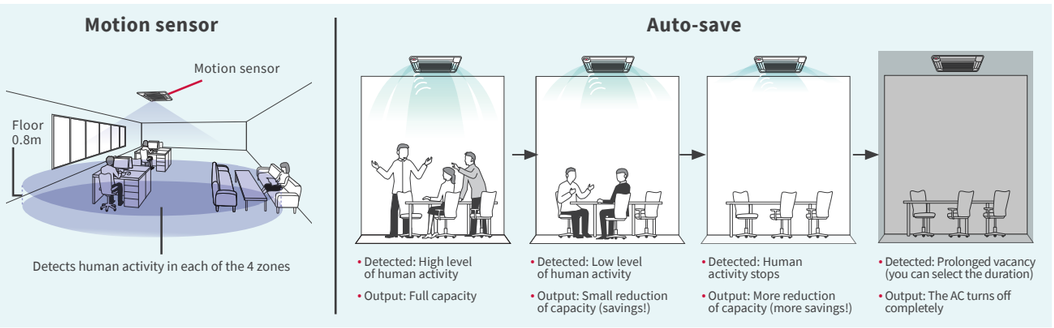
RPC-FSR
(SOR-NEP)

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 IAQ 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 Ion 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

ANTI-MOLD

100% growth stop

Testing information

[Anti-virus test]
Test Laboratory: Guangdong Detection Center of Microbiology
Test Report # 2021FM05008R01
Test Procedure: Based on ISO 18184:2019
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

[Anti-mold test]
Test Laboratory: Guangdong Detection Center of Microbiology
Test Report # 2021FM05006R01
Test Procedure: Based on JIS Z 2911:2018 (A)
Methods of test for fungus resistance

UNIT STANDARDIZED WITH VIROSENSE S FILTER

4-way Cassette (RCI-FSRP)						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	(Standard Equipped)	P-AP160NAE2 + OPT-EZJ01

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

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

ViroSense Z2 filter

OPTIONAL ACCESSORY FILTER

VIROSENSE Z2 FILTER

ORIGINAL

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%.

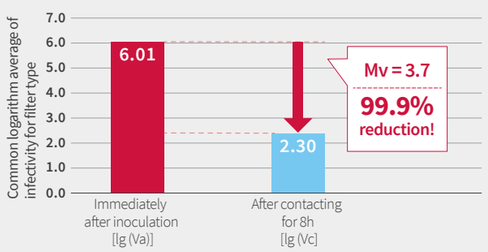
Bacteria removal by over 99%
Efficiency of ViroSense Z2 filter against Certain types of Bacterial has been confirmed too with inhibition rate up to more than 99%.

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 SARS-CoV-2



[Testing data]
Testing Laboratory: Japan Textile Products Quality and Technology Center
Test Report No. : 21KB080432-1
Test Procedure: ISO 18184 : 2019 "Textiles -- Determination of antiviral activity of textile products." application
Tested Virus: Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)

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 textile products
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

4-way Cassette (RCI-FSRP)						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	(Standard Equipped)	P-AP160NAE2 + OPT-EZJ01

Indoor Air Quality

Live and work in harmony

OPTIONAL ACCESSORY FILTER

AQTIV-ION KIT

Model: JK-LZAQ

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

AQtiv-Ion Kit

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

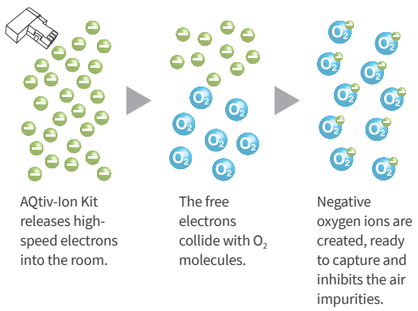
- Various pathogenic factors including bacteria and certain viruses caused by insufficient ventilation.
- Breeding of bacteria, mold and damage to household items, allergies caused by high humidity in wet season.
- Formaldehyde, ammonia, benzene and a variety of volatile organic compounds released by 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

- **Inactivation of SARS-CoV-2 by more than 99.9%**
- **Up to 96.85% capture of certain viruses and bacteria**
- **Down to PM0.3 micro particle removal**
- **Removal of pollutants**
- **Active oxygen generation**

AQTIV-ION KIT TECHNOLOGY

The AQtiv-Ion Kit generates negative ions, which when released into the air, combine with the oxygen (O_2) naturally present in the air. These newly created oxygen molecules trap the impure particles, certain viruses and bacteria and deactivate them.

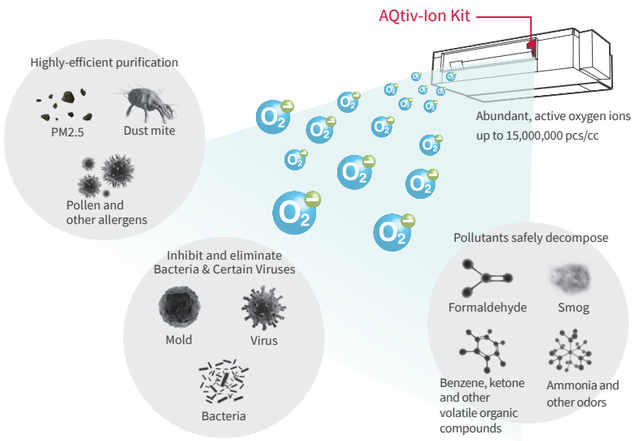


AQtiv-Ion Kit releases high-speed electrons into the room.

The free electrons collide with O_2 molecules.

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

Fight Against The Multiple Invisibles



AQTIV-ION KIT DEACTIVATION PERFORMANCE

SARS-CoV-2	Escherichia coli	Influenza virus	Staphylococcus aureus	PM2.5	Formaldehyde	Ammonia
-99.9% (Inhibition rate)	-96.64% (Inhibition rate)	-96.85% (Removal rate)	-93.88% (Inhibition rate)	-94.46% (Removal rate)	-74.90% (Removal rate)	-73.20% (Removal rate)

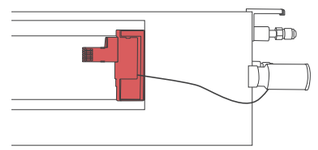
AQTIV-ION KIT APPLICATIONS

Classroom | Condominium | Meeting Room | Hotel

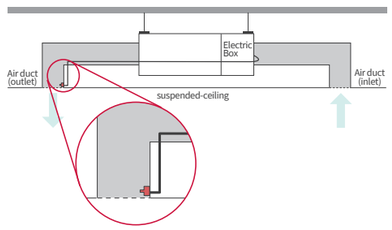
HOW TO INSTALL?

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

Model	JK-LZAQ
Wiring Length	1 meter
Rated power supply	220~240V, 50/60Hz
Electrical Power consumption	(Max) 3W
Operating temperature	-10~50 °C
Operating humidity	20~80%RH
Value of negative ion amount	15,000,000 pcs/cc
Certification	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)	MEIDIUM ESP (AC)	LOW ESP (AC)	COMPACT (AC)	COMPACT (DC)
RPIH-**HNAUN1Q	RPIH-**HNDUSQ	RPIM-**HNAUN1Q	RPIL-**HNAUN1Q	RPIZ-**HNATN1Q	RPIZ-**HNDTS1Q

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

Solutions

Ducted units

AIR CONDITIONING TURNED INVISIBLE!

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

NEW

HIGH ESP (AC)

[RPIH-HNAUN1Q, RPI-FSNQ]

- High ESP (90/120/180Pa).
- Slim & space saving design thanks to a height of 300mm only (RPIH-HNAUN1Q).
- Compatible with AQtiv-Ion Kit (Optional accessory)

NEW

HIGH ESP (DC)

[RPIH-HNDUSQ]

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

NEW

MEDIUM ESP (AC)

[RPIM-HNAUN1Q, RPI-FSN3Q]

- Medium ESP: 50/80Pa (0.8-2.5HP) or 100Pa (8.0-10.0HP).
- Slim & space saving design thanks to a height of 270mm only (0.8-2.5HP) or 470mm only (8.0-10.0HP).
- Compatible with AQtiv-Ion Kit (Optional accessory)

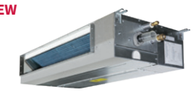
NEW

LOW ESP (AC)

[RPIL-HNAUN1Q]

- Low ESP (30Pa for 0.8-2.5HP, 60Pa for 3.0-6.0HP).
- Space saving design thanks to a height of only 270mm (0.8-2.5HP) or 350mm (3.0-6.0HP).
- Compatible with AQtiv-Ion Kit (Optional accessory)

NEW

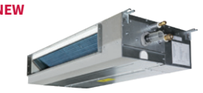


COMPACT (AC)

[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-Ion Kit (Optional accessory)

NEW

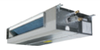


COMPACT (DC)

[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).
- Fan speed: 6 taps available.
- 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	8.4	9.0	11.2	14.2	16.0	22.4	23.2	28.0	28.6
NEW HIGH ESP (AC) [RPIH-HNAUN1Q, RPI-FSNQ]											●	●	●	●	●	●		●	
NEW HIGH ESP (DC) [RPIH-HNDUSQ]																	●		●
NEW MEDIUM ESP (AC) [RPIM-HNAUN1Q, RPI-FSN3Q]		●	●	●		●	●	●	●	●						●		●	
NEW LOW ESP (AC) [RPIL-HNAUN1Q]		●	●	●		●	●	●	●	●	●	●	●	●	●				
NEW COMPACT (AC) [RPIZ-HNATN1Q]		●	●	●	●		●	●	●	●									
NEW COMPACT (DC) [RPIZ-HNDTS1Q]		●	●	●	●		●	●	●	●									

FEATURES COMPARISON

Model			NEW HIGH ESP (AC)  RPIH-HNAUN1Q	NEW HIGH ESP (DC)  RPIH-HNDUSQ	HIGH/MEDIUM ESP (8/10HP) (AC)  RPI-FSNQ RPI-FSN3Q	NEW MEDIUM/LOW ESP (AC)  RPIM-HNAUN1Q RPIL-HNAUN1Q	NEW COMPACT (AC)  RPIZ-HNATN1Q	NEW COMPACT (DC) RPIZ-HNDTS1Q
COMFORT	Temperature Setting Rate		1.0°C	1.0°C	1.0°C	1.0°C	1.0°C	1.0°C
	Fan Speed		3 taps	6 taps	1 tap	3 taps	3 taps	6 taps
	Louver Direction		-	-	-	-	-	-
	Individual Louver Setting		-	-	-	-	-	-
	Auto Louver Setting		-	-	-	-	-	-
	Dry mode Availability		●	●	●	●	●	●
	Setback (Away Function)		-	-	-	-	-	-
	Cold Draft Prevention (*1)(*4)		●	●	●	●	●	●
	Comfort setting	Control Cool Air (GentleCool) (*2)	-	-	-	-	-	-
	Direct/Indirect louver direction in COOL		-	-	-	-	-	-
	FloorSense Cool air flow control		-	-	-	-	-	-
POWER-SAVING	Power Saving with Motion Sensor (*2)		-	-	-	-	-	-
	Outdoor Unit capacity control (*2)	Peak cut control	-	-	-	-	-	-
		Moderate control	-	-	-	-	-	-
	Indoor Unit Rotation Control (*2)	Indoor Unit Address	-	-	-	-	-	-
		Indoor Air Temperature difference	-	-	-	-	-	-
	Automatic Fan Operation		●	●	●	●	●	●
MENU	AutoBoost (quick function) (*2)		-	-	-	-	-	-
	Daylight Saving Time		●	●	●	●	●	●
	Power Consumption visualization (*2)		-	-	-	-	-	-
	Weekly Schedule Setting		●	●	●	●	●	●
	Power-Saving Setting (*2)		-	-	-	-	-	-
MAINTENANCE	Filter cleaning reminder		●	●	●	●	●	●
	Check Menu	Sensor Condition Check	●	●	●	●	●	●
		Model Display (*2)	-	-	-	-	-	-
		Indoor/Outdoor PCB Check	●	●	●	●	●	●
		Alarm History Display	●	●	●	●	●	●
OPTIONAL ACCESSORY	Motion Sensor		-	-	-	-	-	-
	Receiver Kit for wireless remote controller		PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1
	Drain-up mechanism availability		DUPI-361Q	DUPI-810AQ	DUPI-15H2Q	DUPI-131Q DUPI-361Q	● (*3)	● (*3)
	Air filter		KW-PP9/10Q	KW-PP14Q F-10LPIE F-10HPIE	-	KW-PP7/ 8/9/10Q	KW-PP5Q KW-PP6Q	KW-PP5Q KW-PP6Q
	AQtiv-Ion Kit		●	●	-	●	●	●

(*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) Please consult your distributor.

AQtiv-Ion Kit

Leads to the better Indoor Air Quality

Features

- 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%

Success that sparks

NEW

Information

Labs Tower Cyprus
FFOTI PITTA 4, CYPRUS, 1065
https://labstower.cy/

General Information

Year of installation : 2022
Project type : Retrofit
Vertical application: Commercial multi-tenant building
Installed unit :
Total 384HP With all Ducted Indoor Units

Solutions

Ducted units

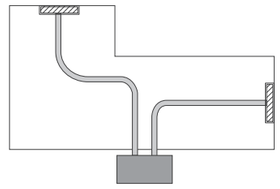
NEW

HIGH ESP HIGH EXTERNAL STATIC PRESSURE

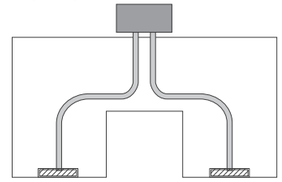
(AC) [RPIH-HNAUN1Q, RPI-FSNQ]

1) High ESP. (90/120/180Pa)
2) Space saving design thanks to a height of only 300mm. (RPIH-HNAUN1Q)
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)

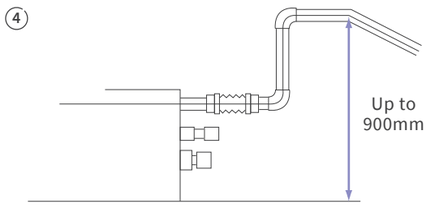
③ L-shaped space



U-shaped space



④



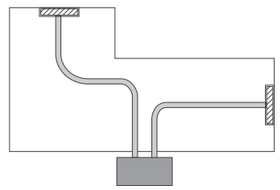
NEW

HIGH ESP HIGH EXTERNAL STATIC PRESSURE

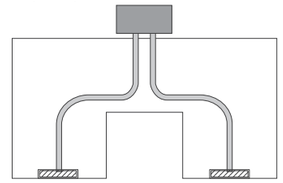
(DC) [RPIH-HNDUSQ]

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)

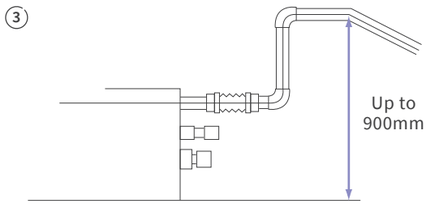
② L-shaped space



U-shaped space



③



Solutions

Ducted units

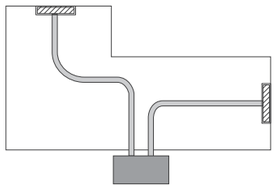
NEW

MEDIUM ESP MEDIUM EXTERNAL STATIC PRESSURE

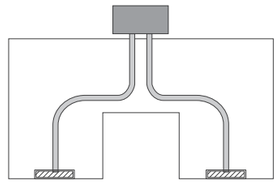
(AC) [RPIM-HNAUN1Q, RPI-FSN3Q]

1) Medium ESP. (50/80Pa for 0.8-2.5HP class, 100Pa for 8.0-10.0HP class)
2) Space saving design thanks to a height of only 270mm. (0.8-2.5HP class) or 470mm (8.0-10.0HP class)
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)

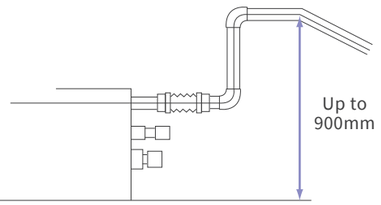
③ L-shaped space



U-shaped space



④



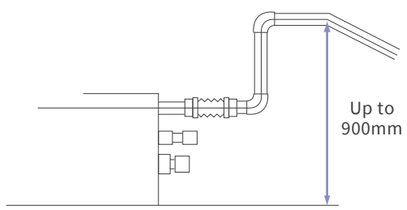
NEW

LOW ESP (LOW EXTERNAL STATIC PRESSURE)

(AC) [RPIL-HNAUN1Q]

1) Low ESP. (30Pa for 0.8-2.5HP class, 60Pa for 3.0-6.0HP class)
2) Space saving design thanks to a height of only 270mm (0.8-2.5HP class) or 300mm (3.0-6.0HP class).
3) Optional drain pump.
   Drain-up mechanism can be supplied as optional part.
4) Compatible with AQtiv-Ion Kit
   (Optional accessory)

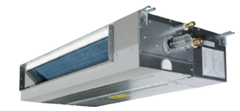
③



NEW

COMPACT

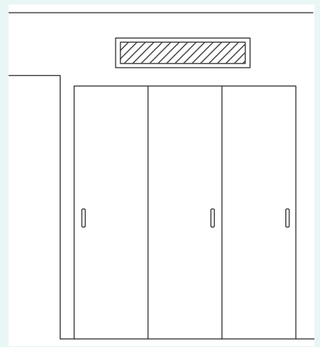
(AC) [RPIZ-HNATN1Q]



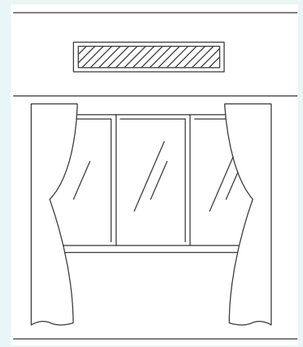
1) Ideal for installation over closets or windows thanks a more compact design, 192mm high.
2) Drain-pump with 900mm lift as standard optional part.
3) Quiet operation level.
   (as low as 20dB(A))
4) Fan air flow rate up to 6 taps.
   (DC motor model only)
5) Compatible with AQtiv-Ion Kit
   (Optional accessory)

①

Over a closet



In dropped ceiling, over window



NEW

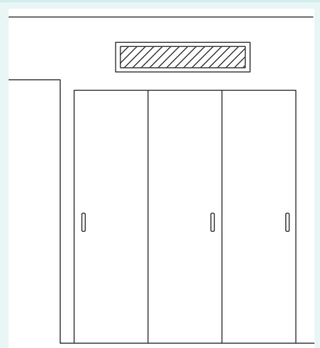
COMPACT

(DC) [RPIZ-HNDTS1Q]

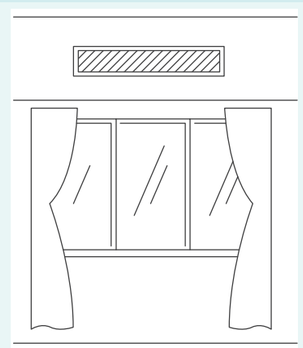
1) Ideal for installation over closets or windows thanks to a more compact design, 192mm high.
2) Drain-pump with 900mm lift as standard optional part.
3) Quiet operation level.
   (as low as 22.5dB(A))
4) Fan air flow rate up to 6 taps.
   (DC motor model only)
5) Compatible with AQtiv-Ion Kit
   (Optional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

①

Over a closet



In dropped ceiling, over window



Solutions

Ceiling cassettes

PREMIUM DESIGN & INNOVATIVE FEATURES

Meet with our newly upgraded offer, for upgraded comfort!

Twin-Sense panel
(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.
- 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!

Silent-Iconic™

P-GP160NAP,
P-GP160KAP

Color variation (RCI-FSRP)

Silent-Iconic™ with elevation grille

P-GP160NAPU

NEW

Twin-Sense panel
(P-AP160NAE2)

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 individual users
- Ideal for a higher ceiling location for installation (up to 5.5m in cooling mode)
- Setback temperature control available, leading to better operation.
- GentleCool control to ensure you are not bothered by cold draft
- 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 operation.
- Motion sensor available for better energy saving operation
- GentleCool control to ensure you are not bothered by cold draft

2-WAY CASSETTE (DC)

[RCD-FSR]

- Motion sensor available for better energy saving operation
- Ideal for a higher ceiling location for installation (up to 4.6m in cooling mode)
- Individually operated louvers give room occupants more comfort
- Quiet operation level (as low as 27dB(A))
- Setback temperature control available, leading to better operation.
- 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 operation
- 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 operation.
- 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]				●	●	●		●	●	●	●	●
NEW 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

Model			4-WAY CASSETTE TYPE (DC MOTOR TYPE) RCI-FSRP	4-WAY CASSETTE TYPE (DC MOTOR TYPE) NEW RCI-FSKDN1Q	4-WAY CASSETTE COMPACT TYPE (DC MOTOR TYPE) RCIM-FSRE	2-WAY CASSETTE TYPE (DC MOTOR TYPE) RCD-FSR	1-WAY CASSETTE TYPE (DC MOTOR TYPE) RCS-FSR
COMFORT	Temperature Setting 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 Direction		7 (*4)	7 (*4)	7 (*4)	7 (*4)	7 (*5)
	Individual Louver Setting		●	●	●	●	-
	Auto Louver Setting		●	●	●	●	●
	Dry mode Availability		●	●	●	●	●
	Setback (Away Function)		●	●	●	●	●
	Cold Draft Prevention Availability (*1)		●	●	●	●	●
	Comfort setting	Control Cool Air (GentleCool) (*2)	●	●	●	●	●
	Direct/Indirect louver direction in COOL		●	●	-	-	-
	FloorSense Cool air flow control		●	●	-	-	-
	ViroSense S filter as standard		P-AP160NAE2 P-AP160NA3 P-AP160KA3 P-GP160NAP P-GP160NAPU P-GP160KAP	Standard Decoration panel P-AP160NAE2	-	P-AP90DNA P-AP160DNA	P-AP36CNA P-AP56CNA P-AP80CNA
POWER-SAVING	Power Saving with Motion Sensor (*2)		●	●	●	●	●
	Outdoor Unit capacity control (*2)	Peak cut control	●	●	●	●	●
		Moderate control	●	●	●	●	●
	Indoor Unit Rotation Control (*2)	Indoor Unit Address	●	●	●	●	●
		Indoor Air Temperature difference	●	●	●	●	●
	Automatic Fan Operation		●	●	●	●	●
MENU	AutoBoost (quick function) (*2)		●	●	●	●	●
	Daylight Saving Time		●	●	●	●	●
	Power Consumption visualization (*2)		●	●	●	●	●
	Weekly Schedule Setting		●	●	●	●	●
	Power-Saving Setting (*2)		●	●	●	●	●
MAINTENANCE	Filter cleaning reminder		●	●	●	●	●
	Check Menu	Sensor Condition Check	●	●	●	●	●
		Model Display (*2)	●	-	-	●	●
		Indoor/Outdoor PCB Check	●	●	●	●	●
		Alarm History Display	●	●	●	●	●
OPTIONAL ACCESSORY	Colored Panel availability		● (*6)	-	-	● (*6)	● (*6)
	Motion Sensor		P-AP160NAE2	P-AP160NAE2	SOR-NEC	SOR-NED	SOR-NES
	Receiver Kit for wireless remote controller		PC-ALH3	HR4A10NEWQ PC-ALH3	PC-ALHC1	PC-ALHD1	PC-ALHS1
	Drain-up mechanism availability		● (*3)	● (*3)	● (*3)	● (*3)	● (*3)
	Fresh air intake accessory		● (*7)	-	● (*7)	● (*7)	● (*7)
	Decoration Panel		P-AP160NAE2 P-AP160NA3 P-AP160KA3	Standard	P-AP56NAM P-AP56NAMR	P-AP90DNA P-AP160DNA	P-AP36CNA P-AP56CNA P-AP80CNA
	Design Panel Silent-Iconic		P-GP160NAP P-GP160NAPU P-GP160KAP	P-GP160NAP P-GP160NAPU P-GP160KAP	-	-	-
	ViroSense Z2 filter (optional) compatible with		P-AP160NAE2 P-AP160NA3 P-AP160KA3 P-GP160NAP P-GP160NAPU P-GP160KAP	Standard Decoration panel 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 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

Features
- 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

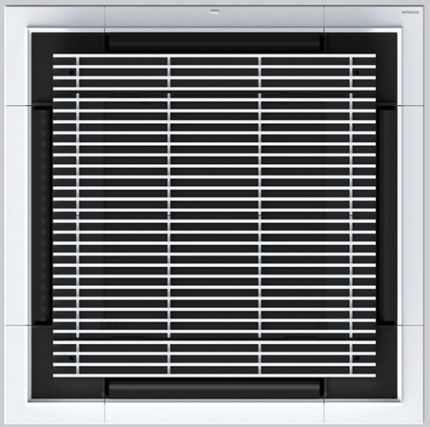
Features
- Optional Accessory
- Lasts up to 4 years (10000h)
- Quick & easy to install/change from existing filters
- Anti-virus (>99.7% inhibition): better than Ion filter
- Anti SARS-CoV-2 (>99.9% inhibition)

Solutions

Ceiling cassettes

SILENT-ICONIC™ 4-WAY CASSETTE DESIGN PANEL

Exclusive panel: architectural designers will love it!



reddot winner 2021
best of the best

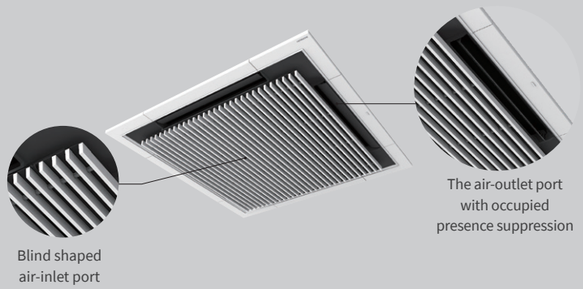
[Silent-iconic] receives Red Dot: Best of the Best for ground-breaking design quality

iF Design Award 2020 Award Winning
(Discipline: Product)

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

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.



Tomohiko Sato

Hitachi, Ltd. Product Design Department, Senior Designer

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

Success that sparks

NEW

Shop information

Dondi Salotti

Via Camillo Cavour 57 Gaglianico, Biella, Italia

dondisalotti.com

General Information

Year of installation : 2022

Project type : Retrofit

Vertical application: Furniture shop

Installed unit : Total 32HP, (10 units of SIlent-Iconic 4-way Casssette)

Solutions

Ceiling cassettes

NEW

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 P-GP160NAP Black 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**

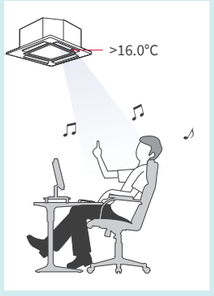
TWIN-SENSE CASSETTE

Adaptive comfort for real life.

EXCLUSIVE

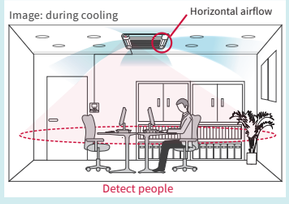
GENTLECOOL

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



FLOORSENSE COOL

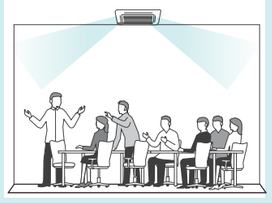
(with radiant temperature sensor)
During cooling, based on indoor unit's new radiant sensor, the multi-louvers adjust to the precise airflow position and cooling capacity to prevent the cold air from sinking and overcooling the floor area.



EXCLUSIVE

CROWD-SENSE

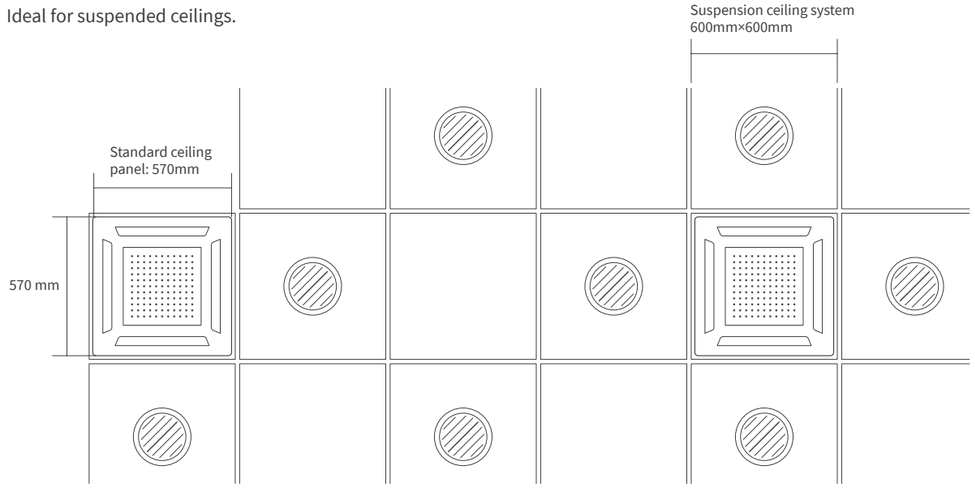
(with motion sensor + radiant temperature sensor)
When detecting an increase of occupants in the room, Twin-Sense anticipates the additional heat source of human bodies. The cassette immediately and pro-actively adjusts operation for a more stable indoor temperature.



4-WAY COMPACT CASSETTE

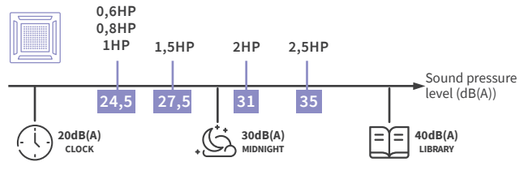
(DC) [RCIM-FSRE]

① Ideal for suspended ceilings.

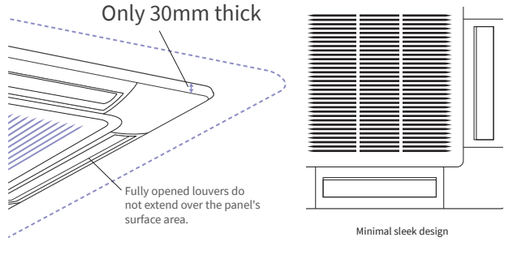


The 600x600 unit can fit in between lighting panels without any disruption.

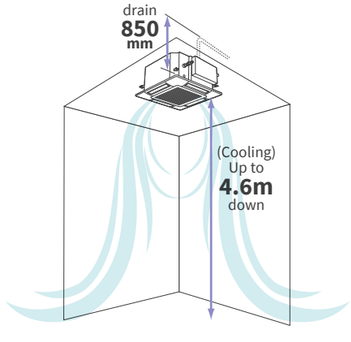
② Whisper quiet sound level.



③ Esthetics.



④ Suitable for high ceilings.
Standard drain pump: up to 850mm lift.



* Air flow rate: Hi2
* 2.0-2.5 FSRE

Solutions

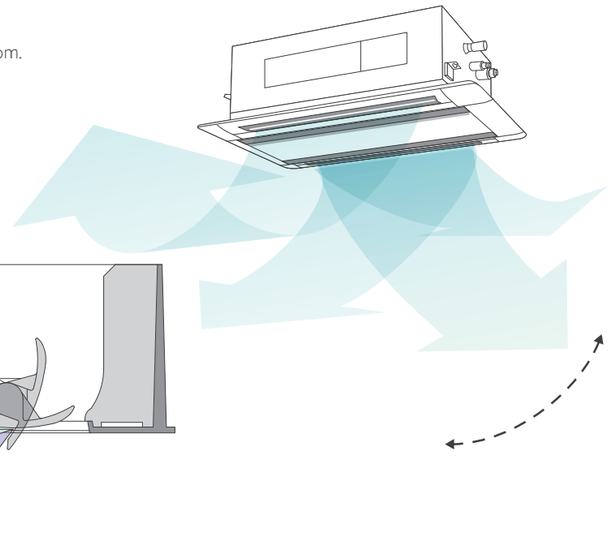
Ceiling cassettes

2-WAY CASSETTE

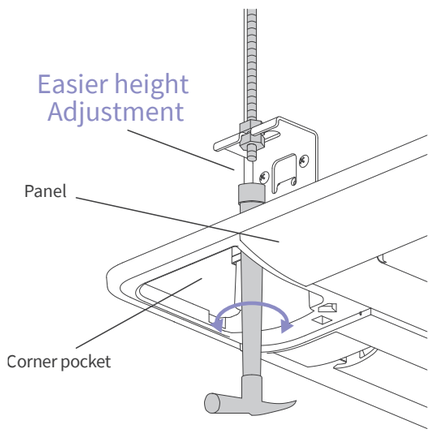
(DC) [RCD-FSR]

① Individually controlled louvers.

Tailor the air flow direction to both ends of the room.

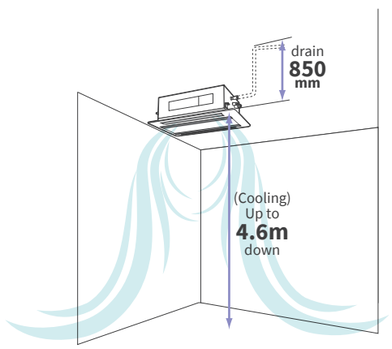


② Facilitated installation.



③ Suitable for high ceilings.

Standard drain pump: up to 850mm rise.

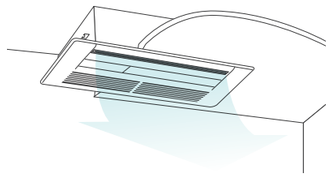


* Air flow rate: Hi2
* 2.0-6.0 FSR

1-WAY CASSETTE

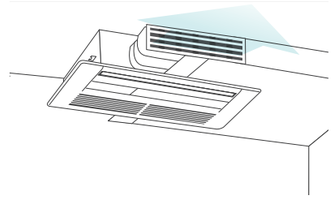
(DC) [RCS-FSR]

① 3 types of installation.



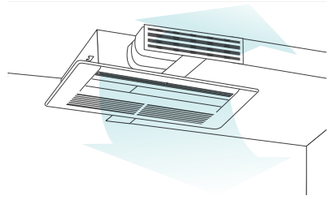
In corner with open louvers (typical).

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.

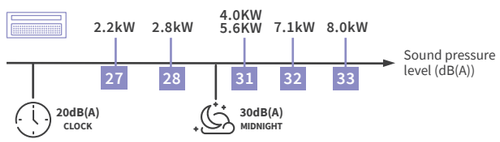


Open louver & ceiling horizontal vent.

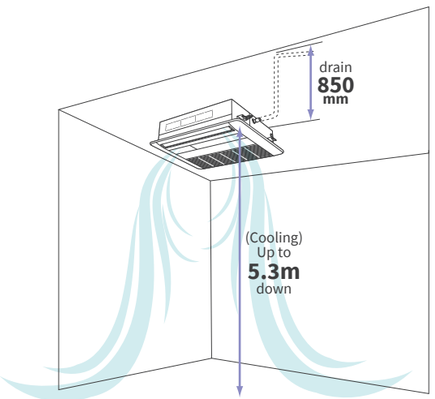
Get two directions with 1-way cassette! Connect the cassette with a horizontal vent on the side, and create both downward air flow and horizontal air flow at the same time.

② Whisper quiet sound level.

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



④ Suitable for high ceilings.
Standard drain pump: up to 850mm lift.



*Air flow rate: Hi2
*2.5-3.0 FSR
*standard corner type

Solutions

Other indoor units

WIDE RANGE OF MODELS FOR MINIMAL INSTALLATION WORKS

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

WALL MOUNTED (DC)

[RPK-FSRM]

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

WALL MOUNTED (DC)

[RPK-HNBUSQ]

- Economic choice for any type of room
- Display set-temperature and operation status on front cover by LED

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 operation.
- GentleCool control to ensure you are not bothered by cold draft
- ViroSense S filter as standard!

FLOOR CONCEALED (AC)

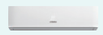
[RPFI-FSNQ]

- 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)	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]										●	●			●			
WALL MOUNTED (DC) [RPK-HNBUSQ]		●	●	●	●		●	●	●	●							
FLOOR / CEILING CONVERTIBLE (AC) [RPFC-FSNQ]							●	●	●	●		●	●	●		●	
CEILING SUSPENDED (DC) [RPC-FSR]					●			●		●	●			●	●		●
FLOOR CONCEALED (AC) [RPFI-FSNQ]			●			●		●		●							

FEATURES COMPARISON

Model			WALL MOUNTED		FLOOR/CEILING CONVERTIBLE	CEILING SUSPENDED	FLOOR CONCEALED
			 RPK-FSRM	 RPK-HNBUSQ	 RPFC-FSNQ	 RPC-FSR	 RPFI-FSNQ
COMFORT	Temperature Setting Rate		0.5°C/1.0°C	1.0°C	1.0°C	0.5°C/1.0°C	1.0°C
	Fan Speed		4 taps	6 taps	3 taps	4 taps	3 taps
	Louver Direction		7 (*5)	7 (*5)	7 (*5)	7 (*5)	-
	Individual Louver Setting		-	-	-	-	-
	Auto Louver Setting		-	●	-	-	-
	Dry mode Availability		●	●	●	●	●
	Setback (Away Function)		●	-	-	●	-
	Cold Draft Prevention Availability (*1)(*6)		●	-	●	●	●
	Comfort setting	Control Cool Air (GentleCool) (*2)	●	-	-	●	-
	Direct/Indirect louver direction in COOL		-	-	-	-	-
	FloorSense Cool air flow control		-	-	-	-	-
POWER-SAVING	Power Saving with Motion Sensor (*2)		-	-	-	●	-
	Outdoor Unit capacity control (*2)	Peak cut control	●	-	-	●	-
		Moderate control	●	-	-	●	-
	Indoor Unit Rotation Control (*2)	Indoor Unit Address	●	-	-	●	-
		Indoor Air Temperature difference	●	-	-	●	-
	Automatic Fan Operation		●	●	●	●	●
MENU	AutoBoost (quick function)		●	-	-	●	-
	Daylight Saving Time		●	●	●	●	●
	Power Consumption visualization (*2)		●	-	-	●	-
	Weekly Schedule Setting		●	●	●	●	●
	Power-Saving Setting (*2)		●	-	-	●	-
MAINTENANCE	Filter cleaning reminder		●	●	●	●	●
	Check Menu	Sensor Condition Check	●	●	●	●	●
		Model Display (*2)	-	-	-	●	-
		Indoor/Outdoor PCB Check	●	●	●	●	●
		Alarm History Display	●	●	●	●	●
OPTIONAL ACCESSORY	Motion Sensor		-	-	-	SOR-NEP	-
	Receiver Kit for wireless remote controller		PC-ALHZ1	PC-RLH11 (*6) PC-ALHZ1	PC-RLH11 (*6) PC-ALHZ1	PC-ALHP1	PC-RLH11 (*6) PC-ALHZ1
	Drain-up mechanism availability		-	-	-	DUPC-63K1 DUPC-71K1 DUPC-160K1	-
	ViroSense S filter		-	-	-	●	-
	Strainer kit		MSF-NP112A1	MSF-NP63A1	-	-	-

(*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).

Solutions

Other indoor units

WALL MOUNTED

(DC) [RPK-FSRM]

① Simple installation procedure.
② Flexible discreet design suitable for any interior.
③ Hotel Setback feature available, leading to better operation.
④ GentleCool control to ensure you are not bothered by cold draft.

WALL MOUNTED

(DC) [RPK-HNBUSQ]

① **Meet your detailed requirement & Display**
RDC fan motor help realize 6-step fan speed adjustment, more quiet and efficient. Also newly equipped display set-temperature and operation status on front cover by LED.

② **Simple installation procedure.**
Refrigerant piping can be connected from the rear, base, or left of the unit, providing much greater flexibility for piping and selection of installation sites.

③ **Flexible design suitable for any décor.**
With smooth flat covers, the units match most modern interiors. Their compact size enables them to blend in, even in small spaces.
Compact cabinet design with 203mm depth up to 1.3HP and 230mm depth up to 2.5HP.

④ **Easy maintenance.**
Front flat panel keeps the unit from dust and facilitates maintenance work.
The front grille hinges open easily—no tools are needed to gain quick access to the filter.
The filter can be removed and cleaned as required.

Solutions

Other indoor units

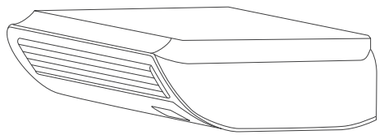
FLOOR/CEILING CONVERTIBLE

(AC) [RPFC-FSNQ]

① 2-in-1 versatile unit.

Ceiling-suspended installation.

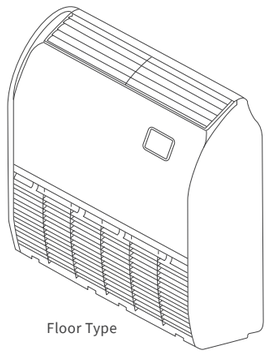
Supplies air to a wide area. Suitable for higher ceilings.



Ceiling Type

Floor-mounted installation.

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



Floor Type

② New air-intake design.

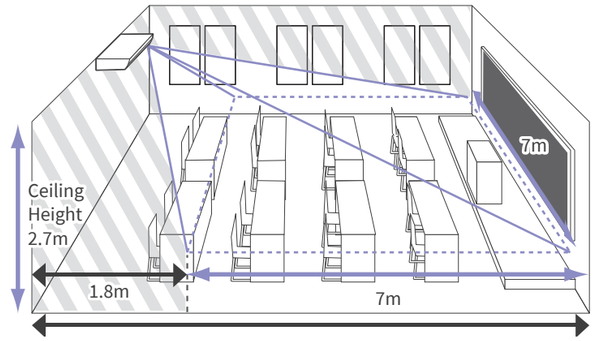
Equipped with air-intakes, the unit can be connected to ventilation equipment such as a Total Heat Exchanger using a duct, providing better interior air quality.

CEILING SUSPENDED

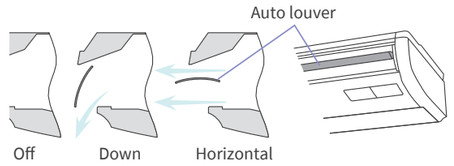
(DC) [RPC-FSR]

① 7m reach motion sensor (option: SOR-NEP).

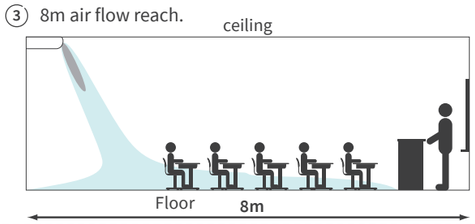
Use a motion sensor for extra savings when the room is vacant.



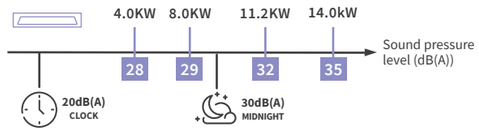
② Auto-swing available.



③ 8m air flow reach.



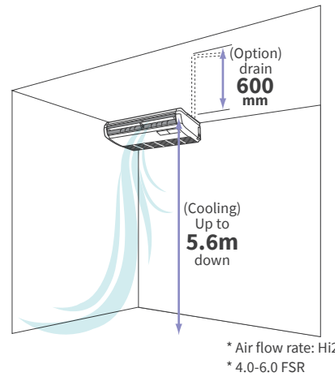
④ Decreased sound pressure, thanks to new fan inlet and fan designs.



⑤ Suitable for high ceilings.

Capacity model (HP)	1.5-3.0	4.0-6.0
Air flow height (m)	3.5	4.3

* air flow volume: high



* Air flow rate: Hi2
* 4.0-6.0 FSR

Solutions

Other indoor units

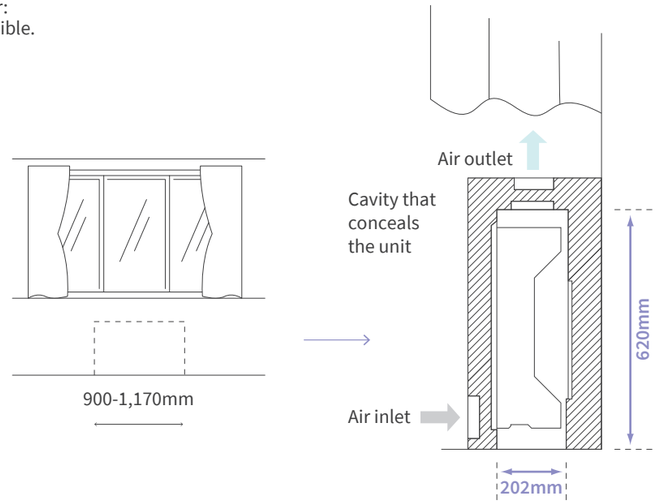
FLOOR CONCEALED

(AC) [RPFI-FSNQ]

① Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible.

② Its low height (only 620mm) enables the unit to fit perfectly beneath a window.

③ Requires little installation space thanks to its slim 202mm depth.



Specifications & accessories

NEW

HIGH ESP HIGH EXTERNAL STATIC PRESSURE

(AC) [RPIH-HNAUN1Q, RPI-FSNQ]

Model			RPIH-3.0HNAUN1Q	RPIH-3.3HNAUN1Q	RPIH-4.0HNAUN1Q	RPIH-5.0HNAUN1Q	RPIH-6.0HNAUN1Q	RPI-8.0FSNQ	RPI-10.0FSNQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]					AC 3Φ, [380-415V/50Hz]	
Nominal Capacity		kW	8.4	9.0	11.2	14.2	16.0	22.4	28.0
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	42/39/34	42/39/34	43/39/34	44/41/37	48/42/37	50	52
Outer Dimension	H×W×D	mm	300×1,175×800	300×1,175×800	300×1,175×800	300×1,475×800	300×1,475×800	470×1,060×1,120	470×1,250×1,120
Net Weight		kg	45	45	45	53	54	96	104
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m^3/min	30/28/23	30/28/23	30/28/23	35.5/32/27	41/33/26	58	72
External Static Pressure (*3)		Pa	120(90)	120(90)	120(90)	120(90)	120(90)	180	180
Connections			Flare-Nut Connection (with Flare Nuts)					Brazing connection	
Refrigerant Piping Diameter	Liquid Line	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ22.23
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m^3	0.40	0.40	0.40	0.49	0.49	0.90	1.06

Receiver Kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1
Condensate Drain Pump Kit	PRIH-HNAUN1Q	DUPI-361Q
	PRI-FSNQ	DUPI-15H2Q
Air filter	3.0-4.0 (HP)	KW-PP9Q
	5.0-6.0 (HP)	KW-PP10Q
AQtiv-Ion Kit	PRIH-HNAUN1Q	JK-LZAQ

Notes:

1. The cooling capacity 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

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.

NEW

HIGH ESP HIGH EXTERNAL STATIC PRESSURE

(DC) [RPIH-HNDUSQ]

Model			RPIH-8.0HNDUSQ	RPIH-10.0HNDUSQ
Indoor Unit Power Supply			AC1Φ, [220~240V/50Hz] [220V/60Hz]	
Nominal Cooling		kW	23.2	28.6
Capacity (*1)		kcal/h	20,000	24,600
		Btu/h	79,200	97,600
Nominal Cooling		kW	22.4	28.0
Capacity (*2)		kcal/h	19,300	24,100
		Btu/h	76,500	95,600
Cooling Power Consumption		kW	0.49	0.83
Sound Pressure Level (Overall A Scale) (*4)		dB	49/48/47/46/45/44	53/52/50/49/47/45
Outer Dimensions	H×W×D	mm	470×1,250×1,120	470×1,250×1,120
Net Weight		kg	104	104
		(lbs.)	(229)	(229)
Refrigerant		—	R410A (Nitrogen-Charged for Corrosion-Resistance)	
Indoor Fan Air Flow Rate (Hi/Me/Lo)		m^3/h (cfm)	3420/3240/3120/3060/2940/2850 (2012/1906/1835/1800/1730/1677)	4320/4080/3900/3660/3450/3000 (2541/2400/2294/2153/2030/1765)
External Pressure (*3)		Pa	150	150
Connections			Brazing connection	
Refrigerant Piping	Liquid Line	mm	Φ9.53	Φ9.53
	Gas Line (*5)	mm	Φ22.2	Φ22.2
Condensate Drain		—	VP25	VP25
Approximate Packing Measurement		m^3	1.08	1.08

Receiver Kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1
Condensate Drain Pump Kit		DUPI-810AQ

Air filter	Normal Filter	KW-PP14Q
	Coarse Filter	F-10LPIE
	ePM10 Filter	F-10HPIE
	FIlter Box	FB-10PIE
AQtiv-Ion Kit		JK-LZAQ

Notes:

1. 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

2. 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 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 Φ22.2mm when leaving the factory, and the diameter can be changed to 19.05mm after welding the adapter pipe.

Specifications & accessories

NEW

MEDIUM ESP MEDIUM EXTERNAL STATIC PRESSURE

(AC) [RPIM-HNAUN1Q, RPI-FSN3Q]

Model			RPIM-0.8HNAUN1Q	RPIM-1.0HNAUN1Q	RPIM-1.3HNAUN1Q	RPIM-1.5HNAUNQ	RPIM-1.8HNAUN1Q	RPIM-2.0HNAUN1Q	RPIM-2.3HNAUN1Q	RPIM-2.5HNAUN1Q	RPI-8.0FSN3Q	RPI-10.0FSN3Q
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]								AC 3Φ, [380-415V/50Hz]	
Nominal Capacity		kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1	22.4	28.0
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	32/27/24	32/27/24	35/33/28	35/33/28	35.5/33/28	35.5/33/28	39/34/26	39/34/26	50	52
Outer Dimension	(H×W×D)	mm	270×725 ×720	270×725 ×720	270×725 ×720	270×725 ×720	270×975 ×720	270×975 ×720	270×975 ×720	270×975 ×720	470×1,060 ×1,120	470×1,250 ×1,120
Net Weight		kg	24	24	25	25	31	31	32	32	96	104
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m^3/min	10/8/7	10/8/7	12/11/9	12/11/9	16/14/11.5	16/14/11.5	20/16/11	20/16/11	58(56*)	72(70*)
External Static Pressure (*3)		Pa	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	100	100
Connections			Flare-Nut Connection (with Flare Nuts)								Brazing connection	
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ22.23
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m^3	0.22	0.22	0.22	0.22	0.28	0.28	0.28	0.28	0.90	1.06

Receiver Kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1
Condensate Drain Pump Kit	0.8-2.5 (HP)	DUPI-131Q
	8.0-10.0 (HP)	DUPI-15H2Q
Air filter	0.8-1.5 (HP)	KW-PP7Q
	1.8-2.5 (HP)	KW-PP8Q
AQtiv-Ion Kit	PRIM-HNAUN1Q	JK-LZAQ

Notes:

1. The cooling capacity 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

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.

NEW

LOW ESP LOW EXTERNAL STATIC PRESSURE

(AC) [RPIL-HNAUN1Q]

Model			RPIL-0.8HNAUN1Q	RPIL-1.0HNAUN1Q	RPIL-1.3HNAUN1Q	RPIL-1.5HNAUN1Q	RPIL-1.8HNAUN1Q	RPIL-2.0HNAUN1Q	RPIL-2.3HNAUN1Q
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]						
Nominal Capacity		kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	28/25/22	28/25/22	34/32/30	34/32/30	34/32/29	34/32/29	36.5/30.5/25
Outer Dimension	(H×W×D)	mm	270×725×720	270×725×720	270×725×720	270×725×720	270×975×720	270×975×720	270×975×720
Net Weight		kg	24	24	25	25	31	31	32
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m^3/min	9/8/7	9/8/7	13/11/9	13/11/9	15/14/12	15/14/12	21/14/11
External Static Pressure (*3)		Pa	30	30	30	30	30	30	30
Connections			Flare-Nut Connection (with Flare Nuts)						
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m^3	0.22	0.22	0.22	0.22	0.28	0.28	0.28

Model			RPIL-2.5HNAUN1Q	RPIL-3.0HNAUN1Q	RPIL-3.3HNAUN1Q	RPIL-4.0HNAUN1Q	RPIL-5.0HNAUN1Q	RPIL-6.0HNAUN1Q
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]					
Nominal Capacity		kW	7.1	8.4	9.0	11.2	14.2	16.0
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	36.5/30.5/25	38/30/24	38/30/24	38/35/31	44/39/35	46/41/35
Outer Dimension	(H×W×D)	mm	270×975×720	300×1,175×800	300×1,175×800	300×1,175×800	300×1,475×800	300×1,475×800
Net Weight		kg	32	45	45	45	53	54
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m^3/min	21/14/11	29/25/21	29/25/21	29/25/21	36/31/26	42/34/26
External Static Pressure (*3)		Pa	30	60	60	60	60	60
Connections			Flare-Nut Connection (with Flare Nuts)					
Refrigerant Piping Diameter	Liquid Line	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m^3	0.28	0.40	0.40	0.40	0.49	0.49

Receiver Kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1
Condensate Drain Pump Kit	0.8-2.5 (HP)	DUPI-131Q
	3.0-6.0 (HP)	DUPI-361Q
Air filter	0.8-1.5 (HP)	KW-PP7Q
	1.8-2.5 (HP)	KW-PP8Q
	3.0-4.0 (HP)	KW-PP9Q
	5.0-6.0 (HP)	KW-PP10Q
AQtiv-Ion Kit		JK-LZAQ

Notes:

1. The cooling capacity 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

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.

Specifications & accessories

NEW

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			AC 1Φ, [220-240V/50Hz] [220V/60Hz]							
Nominal Capacity		kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3	7.1
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)	m^3/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 Pressure (*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			Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.70	Φ12.70	Φ12.70	Φ12.70	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m^3	0.142	0.142	0.142	0.15	0.18	0.18	0.18	0.18

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

Air filter	0.8-1.5 (HP)	KW-PP5Q
	1.8-2.5 (HP)	KW-PP6Q
AQtiv-Ion Kit		JK-LZAQ

Notes:
1. The cooling capacity 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
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.

NEW

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			AC 1Φ, [220-240V/50Hz]							
Nominal Capacity		kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3	7.1
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	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m^3/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 Pressure (*3)		Pa	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)
Connections			Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.70	Φ12.70	Φ12.70	Φ12.70	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m^3	0.142	0.142	0.142	0.15	0.18	0.18	0.18	0.18

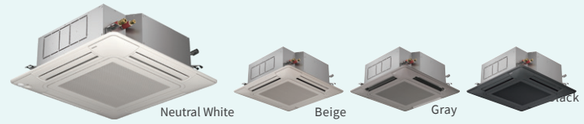
Receiver Kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1
Condensate Drain Pump Kit		- (included as standard equipment)

Air filter	0.8-1.5 (HP)	KW-PP5Q
	1.8-2.5 (HP)	KW-PP6Q
AQtiv-Ion Kit		JK-LZAQ

Notes:
1. The cooling capacity 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
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.

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 Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]							
Nominal Capacity		kW	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
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)	m^3/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			Flare-Nut Connection (with flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m^3	0.21	0.21	0.21	0.21	0.25	0.25	0.25	0.25

Decoration panel	Twin-Sense panel	P-AP160NAE2
	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
Deodorant Air Filter	1.0-2.5 (HP)	F-71L-D1
	3.0-6.0 (HP)	F-160L-D1
Filter Box		B-160H3
ViroSense Z2 filter		F-160L-ZV
ViroSense S filter		- (Standard)

Notes:
1. The cooling capacity 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
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.

NEW

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 Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]								
Nominal Capacity		kW	2.8	4.0	5.6	6.3	7.1	8.0	11.2	14.0	16.0
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)	m^3/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 Connection (with flare Nuts)								
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m^3	0.21	0.21	0.21	0.21	0.21	0.25	0.25	0.25	0.25

Decoration Panel		- (Standard)
	Twin-Sense panel	P-AP160NAE2 + OPT-EZJ01
Receiver Kit	Basic	HR4A10NEWQ
	Advanced	PC-ALH3

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

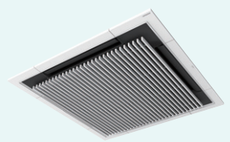
Notes:
1. The cooling capacity above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.
   Cooling Operation Conditions
   Indoor Air Inlet Temperature:.....27.0°C DB (80.0°F DB)
   19.0°C WB (66.2°F WB)
   Outdoor Air Inlet Temperature: .....35.0°C DB (95.0°F DB)
   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.
3. Decoration panel is included.

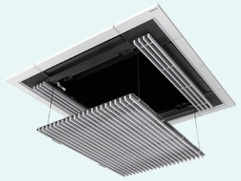
Specifications & accessories

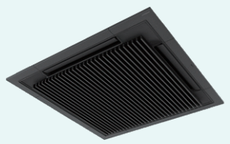
SILENT-ICONIC™ 4-WAY CASSETTE DESIGN PANEL

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 Power Supply			AC 1Φ, [230V/50Hz] [220-240V/50Hz] [220V/60Hz]					
Nominal Capacity		kW	1.6	2.2	2.8	4.0	5.6	7.1
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)	m^3/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 Connection (with Flare Nuts)					
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m^3	0.13	0.13	0.13	0.13	0.13	0.13

Decoration panel		P-AP56NAM
Decoration panel with Receiver kit	Advanced	P-AP56NAMR
Receiver kit	Advanced	PC-ALHC1

Motion Sensor	SOR-NEC
Condensate Drain Pump Kit	- (Standard)
Duct Adapter	PD-75C

Notes:
1. The cooling capacity 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

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 Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]								
Nominal Capacity		kW	2.2	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
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)	m^3/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 Connection (with Flare Nuts)								
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m^3	0.24	0.24	0.24	0.24	0.24	0.24	0.36	0.36	0.36

Decoration panel	0.8-3.0 (HP)	P-AP90DNA
	4.0-6.0 (HP)	P-AP160DNA
Receiver kit	Advanced	PC-ALHD1
Motion Sensor		SOR-NED
Condensate Drain Pump Kit		- (Standard)
Duct Adapter		PD-150D

Normal Air Filter		0.8-3.0 (HP)	F-90MD-K1
		4.0-6.0 (HP)	F-160MD-K1
	Filter Box	0.8-3.0 (HP)	B-90HD
		4.0-6.0 (HP)	B-160HD
ViroSense S filter			- (Standard)

Notes:
1. The cooling capacity 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

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]

Model			RCS-0.8FSR	RCS-1.0FSR	RCS-1.5FSR	RCS-2.0FSR	RCS-2.5FSR	RCS-3.0FSR
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [230V/50Hz] [220V/60Hz]					
Nominal Capacity		kW	2.2	2.8	4.0	5.6	7.1	8.0
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)	m^3/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 Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m^3	0.25	0.25	0.25	0.25	0.32	0.32

Decoration panel	0.8-1.0 (HP)	P-AP36CNA
	1.5-2.0 (HP)	P-AP56CNA
	2.5-3.0 (HP)	P-AP80CNA
Receiver kit	Advanced	PC-ALHS1
Motion Sensor		SOR-NES
Condensate Drain Pump Kit		- (Standard)

Duct Adapter		PD-100
Grille for Front Discharge	0.8-2.0 (HP)	DG-56SW1
	2.5-3.0 (HP)	DG-80SW1
Air Outlet Shutter Plate	0.8-2.0 (HP)	PIS-56LS
	2.5-3.0 (HP)	PIS-80LS
ViroSense S filter		- (Standard)

Notes:
1. The cooling capacity 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

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.

Specifications & accessories

WALL MOUNTED

(DC) [RPK-FSRM]

Type			Expansion Valve built-in type		
Model			RPK-2.5FSRM	RPK-3.0FSRM	RPK-4.0FSRM
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]		
Nominal Capacity		kW	7.1	8.0	11.2
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	45/42/38/35	47/44/40/35	51/48/44/39
Color			White		
Outer Dimension	(H×W×D)	mm	300×1,100×260	300×1,100×260	300×1,100×260
Net Weight		kg	15	15	15
Refrigerant			R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m^3/min	18.5/16.5/14/12	20/17.5/15.5/12.5	23/20/17.5/14.5
Motor			38	38	38
Connections			Flare-Nut Connection (with Flare Nuts)		
Refrigerant Piping Diameter	Liquid Line	mm	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP16	VP16	VP16
Approximate Packing Volume		m^3	0.14	0.14	0.14
Accessory included			Wall Mounting Bracket		

Receiver kit	Advanced	PC-ALHZ1
Strainer kit		MSF-NP112A1

Notes:
1. The cooling capacity 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
2. The sound 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.

WALL MOUNTED

(DC) [RPK-HNBUSQ]

Model			RPK-0.8HNBUSQ	RPK-1.0HNBUSQ	RPK-1.3HNBUSQ	RPK-1.5HNBUSQ	RPK-1.8HNBUSQ	RPK-2.0HNBUSQ	RPK-2.3HNBUSQ	RPK-2.5HNBUSQ
Indoor Unit Power Supply			AC 1ϕ,220~240V/50Hz, ,220V/60Hz							
Nominal Capacity		kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3	7.1
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	36/35/33/ 32/30/28	36/35/33/ 32/30/28	38/35/33/ 32/30/28	38/37/36/ 32/31/29	44/42/41/ 38/31/29	40/38/36/ 35/33/31	41/40/38/ 35/33/31	45/42/41/ 38/35/31
Color			White							
Outer Dimension	(H×W×D)	mm	270×815×203	270×815×203	270×815×203	315×915×230	315×915×230	315×1085×230	315×1085×230	315×1085×230
Net Weight		kg	9.0	9.0	9.0	12.5	12.5	14.0	14.0	14.0
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m^3/min	9.8/9.2/8.7/ 8.2/7.5/7.0	9.8/9.2/8.7/ 8.2/7.5/7.0	10.3/9.2/8.7/ 8.2/7.5/7.0	11.5/11.0/10.3/ 9.0/8.7/8.0	14.3/13.5/12.8/ 11.5/9.0/8.0	16.2/15.0/14.2/ 13.3/12.2/11.5	17.0/16.2/15.0/ 13.3/12.2/11.5	20.0/18.0/17.0/ 15.0/13.3/11.7
Connections			Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53
	Gas Line	mm	Φ9.53	Φ9.53	Φ9.53	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP16	VP16	VP16	VP16	VP16	VP16	VP16	VP16
Approximate Packing Volume		m^3	0.11	0.11	0.11	0.15	0.15	0.17	0.17	0.17

Receiver kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1
Strainer kit		MSF-NP63A1

Notes:
1. The cooling capacity 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 (80.0°F DB)
   19.0°C WB (66.2°F WB)
   Outdoor Air Inlet Temperature: .....35.0°C DB (95.0°F DB)
   Piping Length:7.5 metre
   Piping Lift:0 metre
2. The sound 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.

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 Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]							
Nominal Capacity		kW	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2
Sound Pressure Level	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
	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)	m^3/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			Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m^3	0.31	0.31	0.31	0.31	0.40	0.40	0.40	0.48

Receiver kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1

Notes:
1. The cooling capacity 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
2. The sound 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.

Specifications & accessories

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 Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]						
Nominal Capacity		kW	4.0	5.6	7.1	8.0	11.2	14.0	16.0
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)	m^3/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 Flare Nuts)						
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP20	VP20	VP20	VP20	VP20	VP20	VP20
Approximate Packing 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
Condensate Drain Pump Kit	1.5 (HP)	DUPC-63K1
	2.0 (HP)	DUPC-71K1
	2.5-6.0 (HP)	DUPC-160K1
ViroSense S filter		- (Standard)

Notes:
1. The cooling capacity 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

2. The sound 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.

FLOOR CONCEALED

(AC) [RPFI-FSNQ]

Model			RPFI-1.0FSNQ	RPFI-1.5FSNQ	RPFI-2.0FSNQ	RPFI-2.5FSNQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]			
Nominal Capacity		kW	2.8	4.3	5.6	7.1
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	37/34/31	40/38/35	42/38/36	45/43/40
Outer Dimension	(H×W×D)	mm	620×900×202	620×900×202	620×1,170×202	620×1,170×202
Net Weight		kg	25	26	34	34
Refrigerant			R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m^3/min	8.5/7/6	12/8/7	16/12.5/10.5	16/14/11
Connections			Flare-Nut Connection (with Flare Nuts)			
Refrigerant Piping	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas Line	mm	Φ12.70	Φ12.70	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25
Packaging Volume		m^3	0.19	0.19	0.23	0.23

Receiver kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1

Notes:
1. The cooling capacity 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

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.

VENTILATION

Improve indoor air quality!

Today, the average person spends more than 75% of their day indoors. Without proper ventilation, CO_2 levels rise, pollutants circulate and potentially harmful bacteria build-up, impacting on the wellbeing, comfort and productivity of occupants. Make these spaces as healthy and comfortable as possible
by connecting our ventilation solutions into your Hitachi VRF systems.

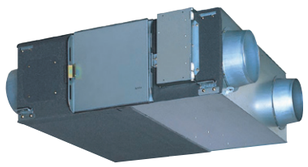
Our ventilation line-up

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

ALL FRESH AIR UNIT

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

TOTAL HEAT EXCHANGER



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

FROM 150 TO 6,000m^3/h

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

EXTRA AIR-RENEWAL SOLUTION OFFERINGS

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

DX-KIT

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

FRESH-AIR INTAKE PORT

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

Ventilation solutions

ALL FRESH AIR UNIT

Model			RPI-5.0KFNQ		RPI-8.0KFNQ		RPI-10.0KFNQ		RPI-12.0KFNQ	
Power Supply			AC 1Φ 220-240V/ 50Hz	AC 1Φ 220V/ 60Hz	AC 1Φ 220-240V/ 50Hz	AC 1Φ 220V/ 60Hz	AC 1Φ 220-240V/ 50Hz	AC 1Φ 220V/ 60Hz	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/ 60Hz
Cooling	Capacity	kW	14.0	14.0	22.4	22.4	28.0	28.0	33.5	33.5
	Power	kW	0.30	0.35	0.48	0.55	0.50	0.58	0.68	0.78
	Nominal Current	A	1.4	1.61	2.2	2.53	2.3	2.65	1.43	1.64
Sound Pressure Level (overall a scale)		dB(A)	42	42	44	44	47	47	56	56
Dimensions	H×W×D	mm	370×1320×800		486×1270×1069		486×1270×1069		486×1270×1069	
Net Weight		kg	63	63	110	110	110	110	110	110
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Air Flow Rate		m^3/ min	18	18	28	28	35	35	50	50
External Pressure		Pa	200	200	220	220	220	220	220	220
Piping	Liquid	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ12.7	Φ12.7
	Gas	mm	Φ15.88	Φ15.88	Φ19.05	Φ19.05	Φ22.2	Φ22.2	Φ25.4	Φ25.4
	Condensate Drain		VP25, Outer Diameter: Φ32mm							
Temperature range of fresh air drawn			Cooling: 20.0°C~43.0°C							

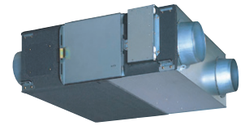
Model			RPI-16.0KFNQL		RPI-16.0KFNQH		RPI-20.0KFNQL		RPI-20.0KFNQH		RPI-20.0KFNQLF		RPI-20.0KFNQHF	
Power Supply			AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/ 60Hz	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/ 60Hz	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/ 60Hz	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/ 60Hz	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/ 60Hz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

Notes:
1. Cooling capacity tested in the following conditions:
   Cooling conditions: 33.0°CDB, 28.0°CWB, pipeline length 7.5 metre, pipe height difference 0 metre.
   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.



TOTAL HEAT EXCHANGER

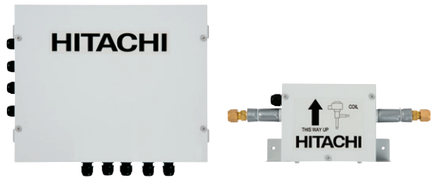
Model			KPI-20H-A-GQ	KPI-30H-A-GQ	KPI-40H-A-GQ	KPI-50H-A-GQ	KPI-65H-A-GQ	KPI-80H-A-GQ	KPI-100H-A-GQ	KPI-125H-A-GQ
Unit Power Supply			AC 1Φ, [220/50Hz]							
Temp. Efficiency	Summer (Hi/Me/Lo)	%	64/64/70	60/60/65	61/61/66	60/60/62	65/65/69	65/65/69	65/65/69	65/65/69
	Winter (Hi/Me/Lo)	%	80/80/83	77/77/80	79/79/81	75/75/76	75/75/78	74/74/78	72/72/76	70/70/78
Enthalpy Efficiency	Summer (Hi/Me/Lo)	%	69/69/76	63/63/70	64/64/69	63/63/65	57/57/60	60/60/63	58/58/63	53/53/61
	Winter (Hi/Me/Lo)	%	75/75/78	70/70/75	70/70/75	69/69/71	65/65/70	70/70/72	66/66/69	63/63/72
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	32/30/25	36/34/28	39/37/30	40/38/31	40/38/35	40/38/34	43/42/34	42/40/37
Outer Dimension	(H×W×D)	mm	220×962×735	220×962×735	220×1,112×735	220×1,112×735	388×1,119×884	388×1,119×884	388×1,119×884	430×1,250×1,135
Net Weight		kg	38	40	46	52	61	69	69	95
Air Flow Rate	(Hi/Me/Lo)	m^3/h	200/200/150	300/300/210	400/400/230	500/500/400	650/650/550	800/800/650	1,000/1,000/700	1,250/1,250/800
External Static Pressure	(Hi/Me/Lo)	Pa	100/70/40	120/90/50	120/90/50	120/90/50	130/100/90	130/100/90	165/120/60	100/50/30
Power Input	(Hi/Me/Lo)	W	120/110/75	165/155/120	210/200/130	330/310/230	2×(188/173/142)	2×(207/188/165)	2×(250/228/205)	2×(308/266/237)
Current	(Hi/Me/Lo)	A	0.6/0.5/0.4	0.8/0.7/0.6	1.0/1.0/0.7	1.6/1.5/1.1	1.72/1.58/1.31	2.04/1.93/1.73	2.35/2.09/1.92	3.03/2.45/2.18
Connection Duct Diameter		mm	Φ144	Φ144	Φ144	Φ194	Φ242	Φ242	Φ242	320×250 +320×250
Approximate Packing Volume		m^3	0.37	0.37	0.43	0.49	0.94	1.15	1.15	1.25

Model			KPI-150H-E-GQ	KPI-200H-E-GQ	KPI-250H-E-GQ	KPI-300H-E-GQ	KPF-400H-E-GQ	KPF-500H-E-GQ
Unit Power Supply			AC 3Φ, [380/50Hz]					
Temp. Efficiency	Summer	%	63	63	63	63	63	63
	Winter	%	68	72	75	75	73	73
Enthalpy Efficiency	Summer	%	57	57	55	56	55	53
	Winter	%	68	68	72	72	63	61
Sound Pressure Level		dB(A)	50	51	53	54	57	58
Outer Dimension	(H×W×D)	mm	536×1,500×1,300	536×1,500×1,400	640×1,700×1,500	640×1,750×1,600	1,655×1,400×850	1,730×1,700×850
Net Weight		kg	144	155	180	220	225	260
Air Flow Rate		m^3/h	1,500	2,000	2,500	3,000	4,000	5,000
External Static Pressure		Pa	165	160	180	200	220	240
Power Input		W	2×440	2×810	2×925	2×1080	2×1,470	2×1,980
Current		A	2.84	3.08	4.19	5.23	5.57	7.51
Connection Duct Diameter		mm	400×320 +400×320	400×320 +400×320	500×350 +500×350	500×350 +500×350	400×320 +590×320	500×350 +700×320
Approximate Packing Volume		m^3	1.82	1.95	2.63	2.93	3.01	3.75

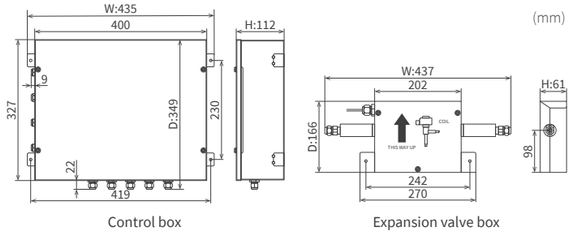
Note:
Please confirm the model name for "wires remote controller" compatible with Total Heat Exchanger to your local distributor.

DX-KIT

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



Dimensions



Capacity (HP)			2	4	6	8/10	12~20	22~30
Model			**DXF-2.0A1**	**DXF-4.0A1**	**DXF-6.0A1**	**DXF-10.0A1**	**DXF-20.0A1**	**DXF-30.0A1**
Control Box (C Box)	Power Supply		AC1Φ, [220-240V /50Hz] [220V 60Hz]					
	Height	mm	112	112	112	112	112	112
	Width	mm	435	435	435	435	435	435
	Depth	mm	349	349	349	349	349	349
	Weight	kg	5.2	5.2	5.2	5.2	5.2	5.2
	Material		Steel Plate + White Grey Coating					
Expansion Valve Box (EXV Box)	Height	mm	61	61	61	61	61	61
	Width	mm	437	437	437	437	437	437
	Depth	mm	166	166	166	166	166	166
	Weight	kg	1.7	1.7	1.7	1.7	1.7	1.7
	Quantity		1	1	1	1	1	2
	Material		Steel Plate + White Grey Coating					
	Liquid Pipe Diameter		ϕ6.35	ϕ9.52	ϕ9.52	ϕ9.52	ϕ12.7	ϕ12.7
AHU Suction Temperature Range			21.0°C to 32.0°C (DB) / 15.0°C to 23.0°C (WB)					
Connection Ratio in different configurations → Total AHU or AHU & IDU Connection Ratio against ODU capacity = X (In case of "Inlet Air Temperature Control")			• 1 ODU to 1 AHU : 50% < X ≤ 100% • 1 ODU to 1 AHU (Separate Heat Exchanger Type) : 50% < X ≤ 100% • 1 ODU to Multiple AHUs : 50% < X ≤ 100% • 1 ODU to AHU & IDUs : (1) 50% < X ≤ 100% → Total AHU capacity: No limitation / Each AHU capacity: No limitation (2) 100% < X ≤ 110% → Total AHU capacity: less than 30% of total capacity / Each AHU capacity: between 2-6HP class					
Maximum Piping Length	Total	m	• 1,000 (When the number of connected [AHU & IDU] in the system is the same or less than the recommended.) • 300 (When the number of connected [AHU & IDU] in the system is more than the recommended.)					
	Between AHU Heat Exchanger and EXV Box	m	5	5	5	5	5	5
Maximum Level Difference	Between ODU and [AHU/IDU]	m	• 50 (When ODU is above [AHU & IDU & DX-Kit].) • 40 (When ODU is below [AHU & IDU & DX-Kit].)					
	Between AHU Heat Exchanger and EXV Box	m	2	2	2	2	2	2
Maximum Length	Control wiring between AHU Heat Exchanger and EXV Box	m	10	10	10	10	10	10
	Thermistor to AHU Heat Exchanger from C Box	m	10	10	10	10	10	10
Temperature Control Modes (*1)			• Inlet Air Temperature Control • Outlet Air Temperature Control • Duty Control					

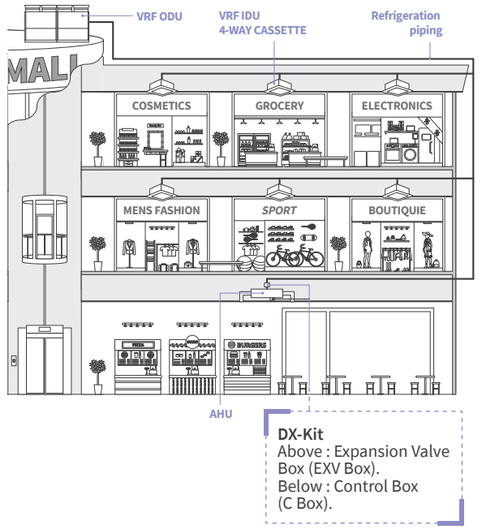
(*1) [Outlet Air Temperature Control] & [Duty Control] are available only in case of connections "1 ODU to 1 AHU" & "1 ODU to 1 AHU(Separate Heat Exchanger Type)".

DX-KIT: GREAT FLEXIBILITY FOR SIMPLIFIED HVAC UPGRADE

① Wide range of capacity:

- (DX-Kit) Single capacity from 2HP to 30HP
- (Custom AHU) up to 112HP available by DX-Kit combination

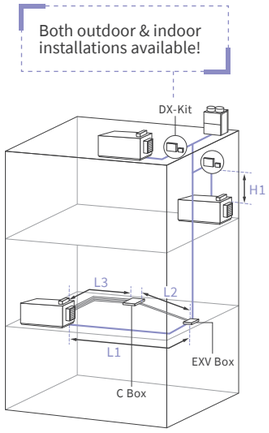
Our DX-Kit can cover from small to large capacity AHU. It can meet any requirement in any application!



② Flexible installation:

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

DX-Kit facilitates system design!



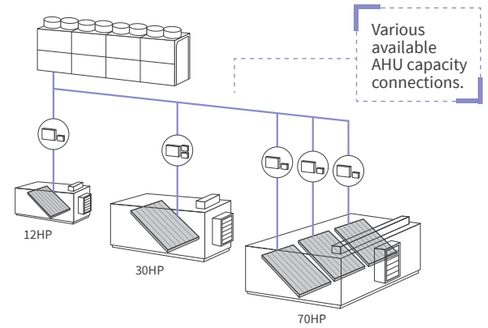
Item		Max (m)
Level difference between AHU Heat Exchanger and EXV Box	H1	2
Piping length between AHU Heat Exchanger and EXV Box	L1	5
Length of control wiring between AHU HeatExchanger and EXV Box	L2	10
Length of the thermistor to AHU Heat Exchanger from C Box	L3	10

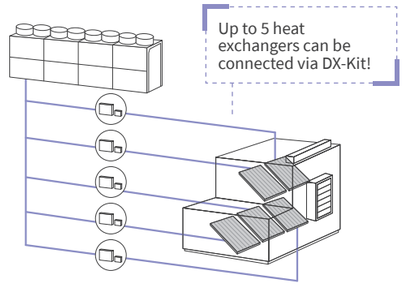
③ 4 examples of configuration:

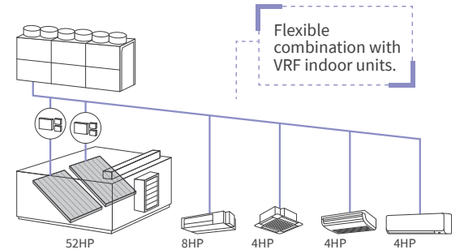
→ 1 VRF outdoor unit + 1 AHU
→ 1 VRF outdoor unit + 1 AHU (external heat exchanger)
→ 1 VRF Outdoor unit + multiple AHUs
→ 1 VRF Outdoor unit + VRF indoor units + AHUs

[Example]

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







CONTROLLERS

New generation: simple and smart!

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

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

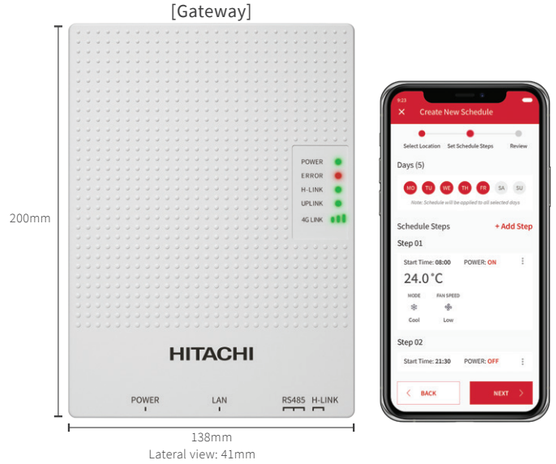
			airCloud Pro	CENTRAL STATION EX	CENTRAL STATION EZ	CENTRAL STATION MINI
						
			HC-IoTGW	PSC-A128EX3	PSC-A64GT	PSC-A32MN
Capacity comparison	Total Connection capacity	RC group	64 (*6)	2,560 (*1)	64	32
		Group	64 (*6)	2,048 (*1)	64	32
		Block	Unlimited (*7)	512 (*2)	4	2/4/8/16
		Area	Unlimited (*7)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

(*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 time (min) , Average air intake temperature of indoor unit , Average air intake temperature of outdoor unit , Average setting temperature , Average RC sensor temperature.

Centralized controllers

airCloud Pro

[Gateway]



Specifications

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

Functions

IoT connection (cloud-based)	• Access via smartphone app or web • Unlimited number of gateways • Unlimited number of locations • Unlimited number of users
Operation unit	• Per entire location • Per system • Per zone (unlimited zone creation) • Per indoor unit remote control group
Control function	• On/Off • Mode • Set temperature • Fan speed • Louver • RC lock • Filter sign reset
Monitor Function	• On/Off • Mode • Set temperature • Air intake temperature • RC sensor temperature (*3) • Air intake temperature of outdoor unit • Fan Speed • Louver • RC prohibition • Thermo-ON information • Filter sign/Auto cleaning fault • Alarm status/Alarm codes
Schedule function	• Weekly schedule • Easy selection of days and zones • Setting items in schedule is as below; • On/Off • Operation mode • Setting temperature • 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.

Recommended facilities (examples.)

Is airCloud Pro for me?

All VRF users can enjoy these benefits!

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

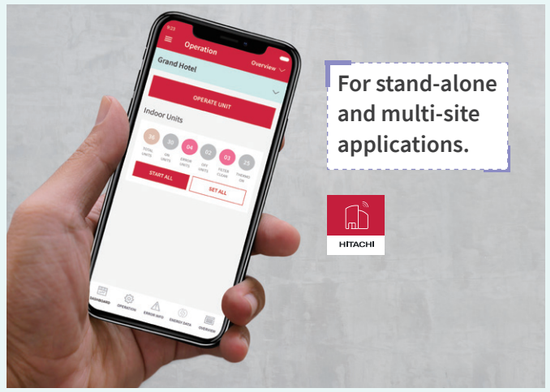
Future-proof

With updates and new features added regularly, 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

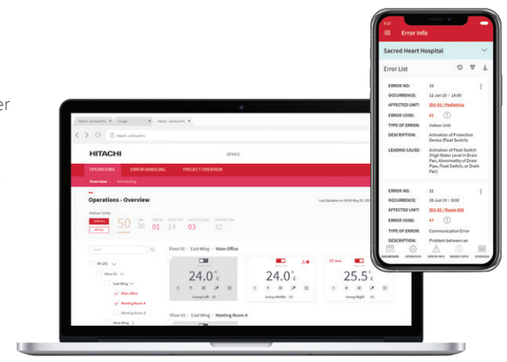
The pilot app makes managing your VRF systems easy.

- **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.

Save more energy

Monitor energy consumption and optimize usage.

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



Create better comfort

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

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

Easy plug-and-play

Our airCloud gateway makes installation a breeze.

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

+ data security

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

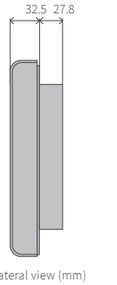
Minimal personal details:
Only your name, email address and phone number are required for login.

*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)



Lateral view (mm)

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

Extension adapter

PSC-AD128EX3

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

Energy calculation software*

PSC-AS01EXC

Specifications

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

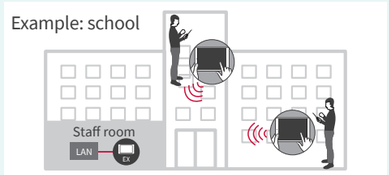
Functions

Operation unit	All together Each area Each block Each group Each indoor unit
Control function	On/Off Mode Set temperature Fan speed Louver RC prohibition Filter sign reset 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)
Monitor function	On/Off Mode Set temperature Air intake temperature RC sensor temperature (*3) Air intake temperature of outdoor unit Fan Speed Louver RC prohibition Thermo-ON information Filter sign/Auto cleaning fault Alarm status/Alarm codes
Schedule function	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 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
History	Alarm history: 10,000 records External In/Output history: 1,000 records Pulse input history: 6 months
Management report visualization	Up to 2 years worth of data history can be displayed for the following: • Accumulated operation time (min.) • Accumulated thermo-ON time (min.) • Average air intake temp temperature of indoor unit • Average air intake temperature of outdoor unit • Average setting temperature • Average RC sensor temperature
External input / output	Energy saving: • Run/Stop • RC prohibition • Temperature shift (For Cool/Dry mode: +1.0°C~+9.0°C (+1.0°F~+18.0°F)) • Mode shift (Mode shifted to Fan when in Cool/Dry mode) • Capacity control on outdoor units • Lower noise control for outdoor units Control/Monitor → Controlled items: • Run/Stop • Mode (Cool) → Monitored items: • Run/Stop • Mode (Cool) • Alarm state Others: • Power consumption signal input • Emergency stop

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

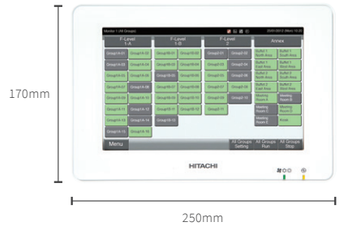
Remote access.

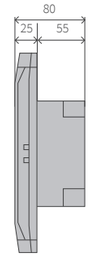
You can now operate Central Station EX from your laptop PC or touch panel PC. Install our software and you can connect from anywhere, using our VPN network.



CENTRAL STATION EZ FOR MEDIUM-SCALE BUILDINGS

(PSC-A64GT)





Lateral view (mm)

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

Capacity

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

Specifications

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

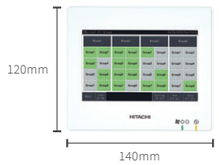
Functions

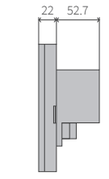
Monitor Function	• Run/Stop/Abnormality • Setting Temperature • RC Operation Prohibited Setting • Accumulated Operating Time • Operation Mode • Setting Fan Speed • Setting Louver • Filter Sign • Alarm Code
Control Function	• Run/Stop* • Fan Speed • Operation Mode • Louver • Temperature Setting • RC Operation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

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

CENTRAL STATION MINI FOR SMALL-SCALE BUILDINGS

(PSC-A32MN)





Lateral view (mm)

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

Capacity

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

Specifications

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

Functions

Monitor Function	• Run/Stop/Abnormality • Setting Temperature • 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

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

Individual 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

NEW
ADVANCED-COLOR CONTROLLER
(PC-ARFG1-*)

Contactless settings via **air**Cloud 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

NEW
ECO-COMPACT CONTROLLER
(PC-ARC-*)

Contactless settings via **air**Cloud 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

WIRED REMOTE CONTROLLER
(HCWA10NEGQ)

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

Controls from anywhere in the room

ADVANCED WIRELESS REMOTE CONTROLLER (PC-AWR)

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

WIRELESS REMOTE CONTROLLER
(PC-LH7QE)

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

From basic to advanced controls

		ADVANCED-COLOR CONTROLLER	ECO-COMPACT CONTROLLER	WIRED REMOTE CONTROLLER	ADVANCED WIRELESS REMOTE CONTROLLER	WIRELESS REMOTE CONTROLLER
						
		NEW PC-ARFG1	NEW PC-ARC	HCWA10NEGQ	PC-AWR	PC-LH7QE
Connection Capacity	No of RC-Group	1	1	1	-	-
	No of indoor units	16	16	16	-	-
Product Size	Width*Height*Depth (mm)	120×120×16.5 (D: thinnest part)	90x90x15.5 (D: thinnest part)	88×88×15.5	140×55×16.8	140×52×19.3
Screen		Color LCD with backlight	Segment LCD with backlight	Segment LCD with backlight	Segment LCD	Segment LCD
Embedded IR receiver		-	●	-	-	-
Smartphone App	Use With airCloud Tap	● (support NFC)	● (support NFC)	-	-	-
Essential Operations	Run / Stop	●	●	●	●	●
	Operation Mode	●	●	●	●	●
	Auto Mode Setting	●	●	●	●	●
	Temperature Setting	●	●	●	●	●
	Fan Speed	●	●	●	●	●
	Louver Direction	●	●	●	●	●
Advanced Feature Settings	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)	-	-	-
	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	●	-	-	-	-
Display Settings	Adjusting Date/Time	●	●	●	-	-
	Daylight Saving Time	●	-	-	-	-
	Run Indicator Brightness Adjustment	●	● (Only On/Off setting)	-	-	-
	Display Adjustment	●	-	-	-	-
	Temperature Units (°C/°F)	●	●	●	●	- (°C only)
	Temperature setting at 0.5°C step	●	●	●	●	- (1.0°C only)
	Room Temperature Display	●	●	●	-	-
	Language available	EN, JPN,CN (traditional &simplified),FR, ES,PT	EN	EN	EN	EN
	Keypad Touch Sound	●	●	● (Cannot turn off)	-	-
Service Functions	Lock Function	●	● (Lock function individually)	● (Lock whole keypad)	-	-
	Password Setting	●	-	-	-	-
	Hotel Mode	●	-	-	-	-
	Power Saving Details Setting	●	-	-	-	-
	Temperature Range Restriction	●	● (in Function Selection)	● (in Function Selection)	-	-
	Dual Setpoint	●	-	-	-	-
	Main/Sub Display	●	-	-	-	-
	Set Room Name	●	-	-	-	-
	Set Contact Information	●	-	-	-	-
	NFC Setting	●	●	-	-	-
	Simple Maintenance Check Menu	●	-	-	-	-
Installation Functions	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	●	-	-	-	-
	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 Menu	Check 1	●	●	●	-	-
	Check 2	●	●	●	-	-
	Alarm History Display	●	●	●	-	-
	Display Model Number	●	-	-	-	-
	Check PCB of the Units	●	-	-	-	-
	Self Check	●	●	-	-	-
Other features	Synchronize Date/ time with Central Controller	● (Only available from Central Station EX PSC-A128EX3)	● (Only available from Central Station EX PSC-A128EX3)	-	-	-
	Stop operation delay	●	●	-	-	-
	Emergency operation	●	●	-	-	-
	Two WRC Control	●	●	-	-	-
	Alarm Display	●	●	●	-	-
	Filter cleaning reminder sign display	●	●	●	-	-

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

Individual controllers

airCloud Tap

Download
airCloud Tap!

NEW
airCloud Tap

For HVAC professionals:
Quicker commissioning & service by airCloud Tap
Contactless ‘read and write’ settings

Ready-to-tap controllers

· NFC chip embedded in the controller

Convenience using with a mobile app

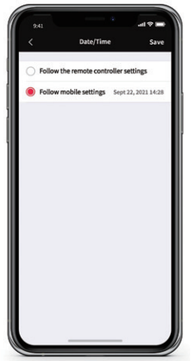
· Easy browsing of all settings by scrolling phone’s screen
· Complete text description of each setting

More savvy than traditional settings by physical device

· Less buttons to press, no AC hardware to manipulate
· Time saving setting process
· Reduced need of documentation support

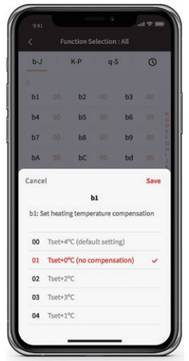
What you can do with airCloud Tap | some highlights:

Installation & Commissioning



Date/time setting

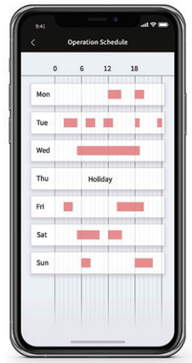
import the date & time from your phone into the controller



Function selection

Scroll your phone’s screen and browse over 140 commissioning settings available

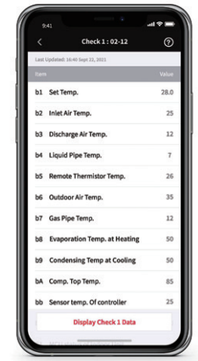
Operation



Scheduling

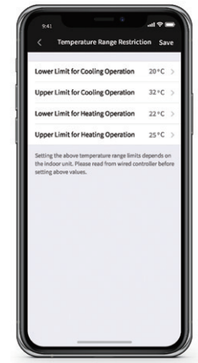
Save preferred AC schedule and save to copy to other controllers of the same building

Maintenance & Service



Troubleshooting

Visualize all the service check data on your phone



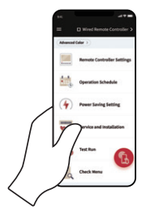
Temperature range restrictions

Apply min/max set temperature to prevent excessive cooling

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 your phone.

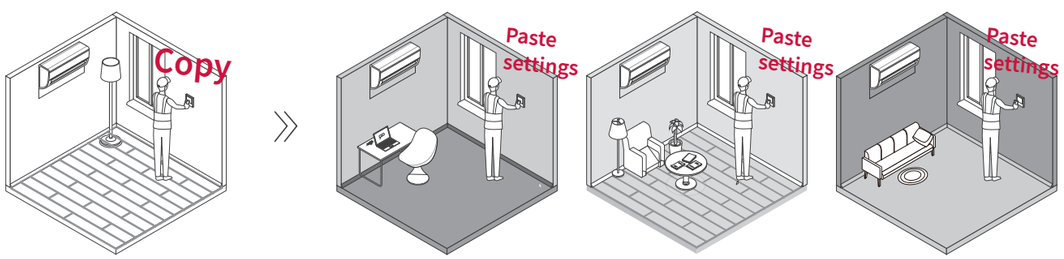
4. Tap again your equipment to apply the new settings.

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.

STEP1
Read the settings from one device and save settings.

STEP2
Hold the mobile device over each product and write settings of STEP1.



Individual controllers

NEW

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
- Pictograms and colors for an optimal user experience

Award-winning design

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

With **Near-field communication (NFC) contactless-enabled system** commissioning via the airCloud Tap smartphone app, you can now save, copy, and paste settings to the Advanced Color Controller with a simple tap.

1 Room name
2 Set temperature
3 Operation mode
4 Indoor unit ON/OFF light
5 Indoor unit ON/OFF
6 Navigation buttons
7 Back button
8 OK button
9 Fan speed
10 Louver direction
11 Access to menu
12 Filter cleaning reminder

Outer dimensions (H×W×D)

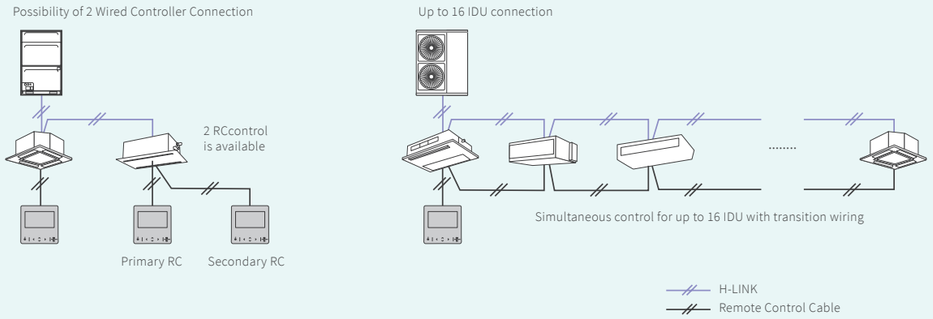
120×120×16.5mm (thinnest part)
120×120×21.5mm (thickest part)

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

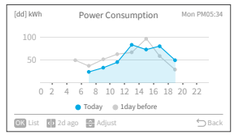
* H is the height of the unit from the front, without the protrusion at the bottom.

System configuration example

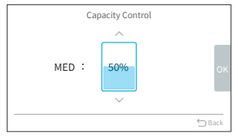


Energy optimization

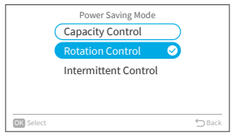
Power-saving features enable VRF system operators to optimize energy usage



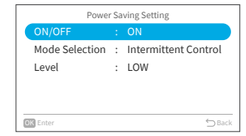
Energy consumption visualization



Capacity – peak cut control



Choice of power-saving method

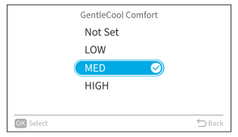


Power saving setting

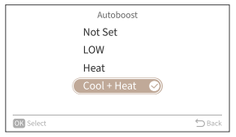
Set specific schedules for features like peak capacity cuts and the thermal operation rotation of indoor units, enabling you to match energy-saving operation hours with your utility tariffs plan. Building managers can also set the minimum and maximum temperature range for occupants and visualize energy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

From basic to advanced functions

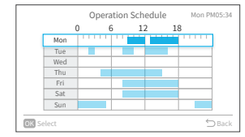
Users can control the main temperature settings from Advanced-Color controller's main screen. In addition, more advanced comfort settings help customizing the air to their occupants' specific needs.



GentleCool limits the temperature of conditioned air, preventing cold drafts for optimal comfort.

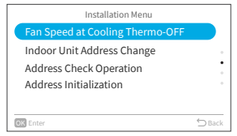


AutoBoost automatically activates for 30 minutes every time the AC is turned on, helping the room reach the desired temperature faster.

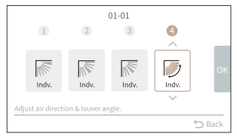


AC Scheduling is easier than ever, thanks to flexible features such as the holiday calendar.

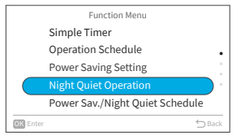
The latest VRF features



NEW **Fan speed at thermo-off** reduces air circulation when cooling 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

NEW **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

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

Individual controllers

NEW

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.

With Near-field communication (NFC) contactless-enabled system commissioning via the airCloud Tap smartphone app, you can now save, copy, and paste settings to the Eco-Compact Controller with a simple tap.

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

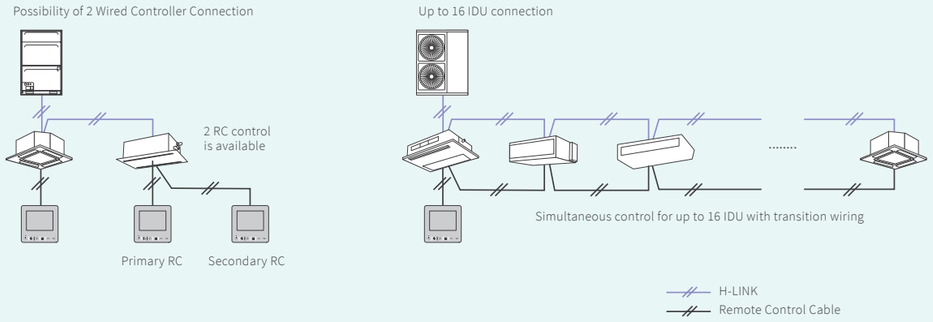
Outer dimensions (H×W×D)

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)

System configuration example

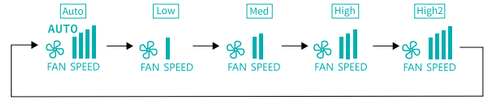


Easy access to essential controls

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

Louvers' positions

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.

ON OFF

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

Accrued comfort

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

Low Med High

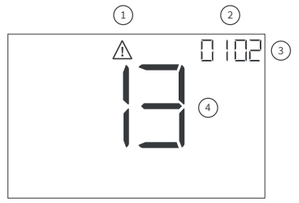
Include **GentleCool**, which controls the discharged air temperature for a smooth cooling down and prevents cold drafts.

AUTO

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.



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

Special features

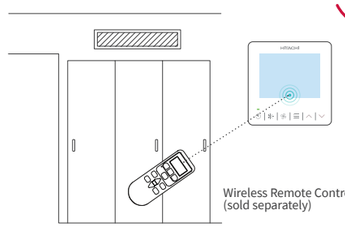
For residential users:
set the Sleep mode timer **NEW** to gradually change the room temperature for a better night's sleep. The unit will turn off automatically after a set time.

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

Embedded IR receiver

NEW

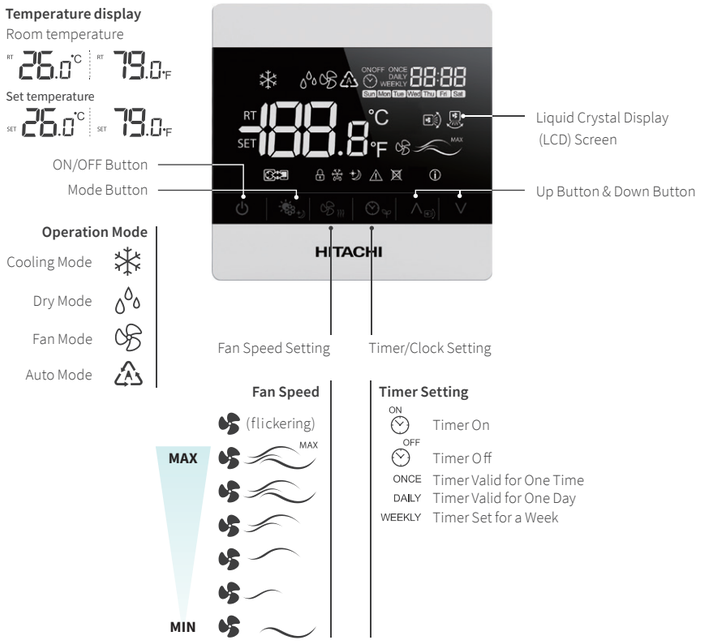
For use with the Wireless Remote Controller. Ideal for indoor units without embedded IR receiver (ex: ducted units)



When IR receiver receives the commands, the buzzer sounds.
*Compatible HCRB10NEWQ and PC-LH7QE/PC-LH7QE1 wireless controllers

Individual controllers

WIRED REMOTE CONTROLLER (HCWA10NEGQ)



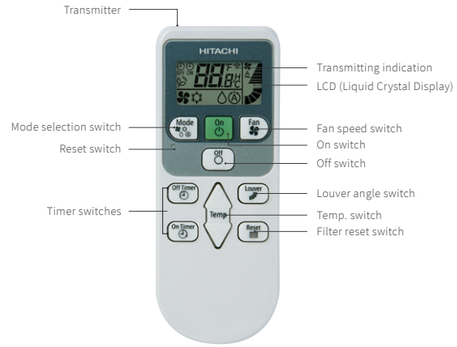
Outer dimensions (H×W×D)
(mm) 88.0×88.0×15.5

Functions

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

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

ADVANCED WIRELESS REMOTE CONTROLLER (PC-AWR)



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

Functions

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

WIRELESS REMOTE CONTROLLER (PC-LH7QE)

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

Functions

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

RECEIVER KIT FOR WIRELESS REMOTE CONTROLLER

Model		PC-RLH11 (Basic)			PC-ALHZ1 (Advanced)				
Indoor unit	Ducted High ESP (AC Motor)	Ducted High ESP (DC Motor)	Ducted Medium ESP (AC Motor)	Ducted Low ESP (AC Motor)	Ducted Compact		Wall-Mounted (DC Motor)	Floor / Ceiling Convertible (AC Motor)	Floor Concealed (AC Motor)
					AC Motor	DC Motor			
	RPIH-HNAUN1Q RPI-FSNQ	RPIH-HNDUSQ	RPIM-HNAUN1Q RPI-FSN3Q	RPIL-HNAUN1Q	RPIZ-HNATN1Q	RPIZ-HNDTS1Q	RPK-HNBUSQ	RPFC-FSNQ	RPFI-FSNQ
Advanced Wireless Remote Controller PC-AWR	○	○	○	○	○	○	○	○	○
Standard Wireless Remote Controller PC-LH7QE	○	○	○	○	○	○	○	○	○

Model	HR4A10NEWQ (Basic)	PC-ALH3 (Advanced)	PC-ALHC1 (Advanced)	P-AP56NAMR (Advanced)	PC-ALHD1 (Advanced)	PC-ALHS1 (Advanced)	PC-ALHP1 (Advanced)	PC-ALHZ1 (Advanced)
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)
	RCI-FSKDN1Q	RCI-FSRP	RCIM-FSRE	RCIM-FSRE	RCD-FSR	RCS-FSR	RPC-FSR	RPK-FSRM
Advanced Wireless Remote Controller PC-AWR	○	○	○	○	○	○	○	○
Standard Wireless Remote Controller PC-LH7QE	○	–	–	–	–	–	–	–

(*) 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].

Notes:
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)

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]

Accessories

3P CONNECTOR CABLE PCC-1A

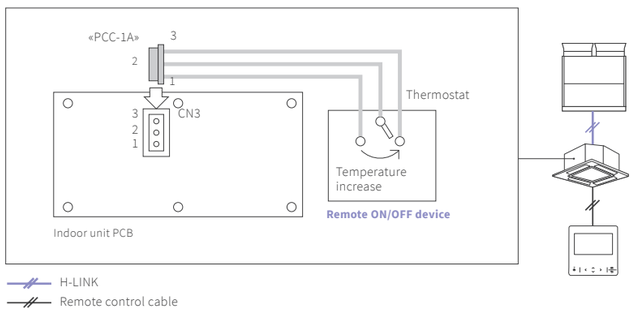
FOR CONNECTION TO REMOTE ON/OFF DEVICE/RECEIPT OF OUTPUT SIGNAL

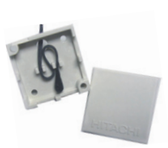
Operation example

- Cooling operation:
  Compressor is ON by closing terminals 2 and 3 of CN3.
  Compressor is OFF by opening terminals 2 and 3 of CN3.

*One set contains five 3P connector cables.
*PCC-1A can connect to external signal input-output terminal both in outdoor unit and indoor unit.

System configuration example





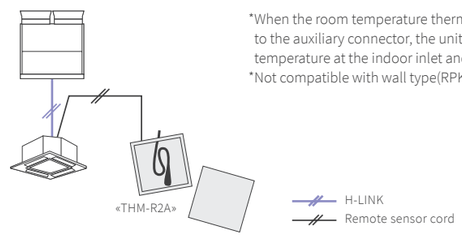
REMOTE SENSOR THM-R2A

ROOM TEMPERATURE SENSOR

Outer dimensions (H×W×D)
(mm) 50.0×50.0×15.0

Length	m	8.00

System configuration example



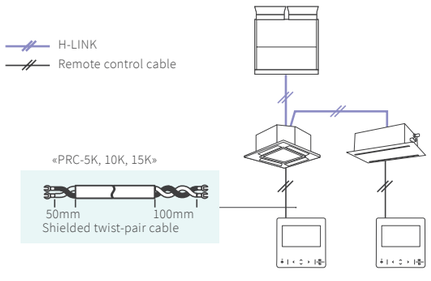
*When the room temperature thermistor (remote sensor) is connected to the auxiliary connector, the unit is controlled at average air temperature at the indoor inlet and remote sensor point.
*Not compatible with wall type(RPK) indoor unit.

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



*PC-ARFG1 does not include a remote control cable.
Use this cable if you don't have one available in your field.

BMS ADAPTER for BACnet® HC-A64BNP1

CONTROL UP TO 64 INDOOR UNITS

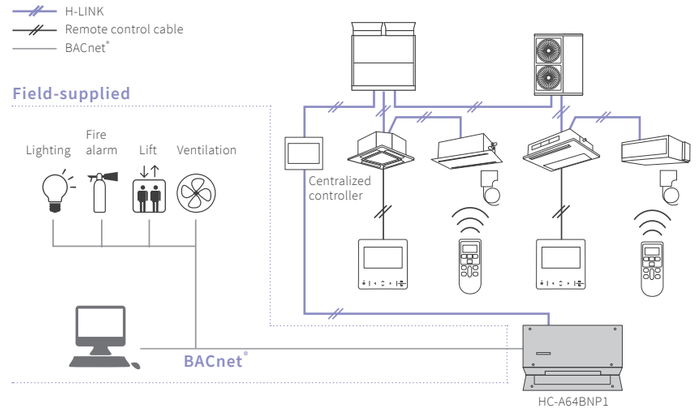
Specifications

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.

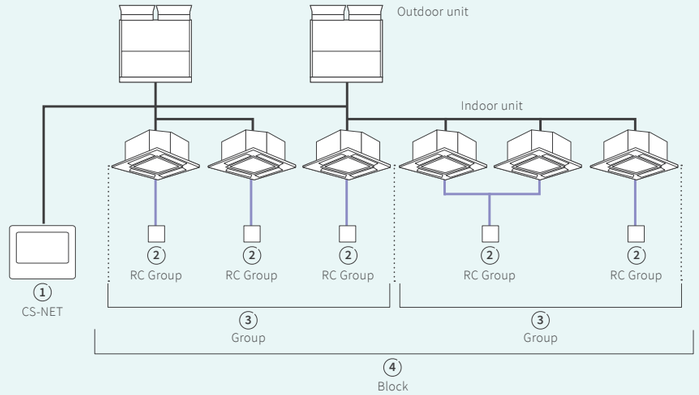
3x more benefits!

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

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

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

Definition of terms in Hitachi centralized control systems



① CS-NET/Central station
→ Hitachi original centralized controller.

② RC Group (Remote Controller System Group)
→ Stands for a number of indoor units (up to 16 units) connected using "same remote controller" wiring. In this group, connected indoor units are all controlled in the same way.

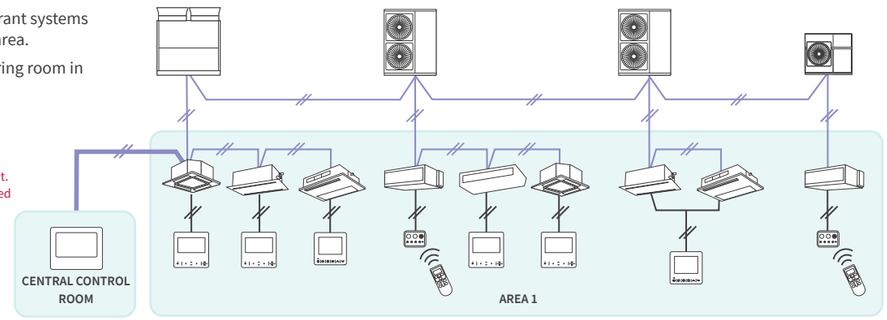
③ Group
→ Stands for the multiple "RC groups" that are registered in the centralized controller network setting.

④ Block
→ Stands for the multiple "groups" that are registered in the centralized controller network setting.

CENTRALIZED CONTROLS: FLEXIBLE WIRING ROUTE!

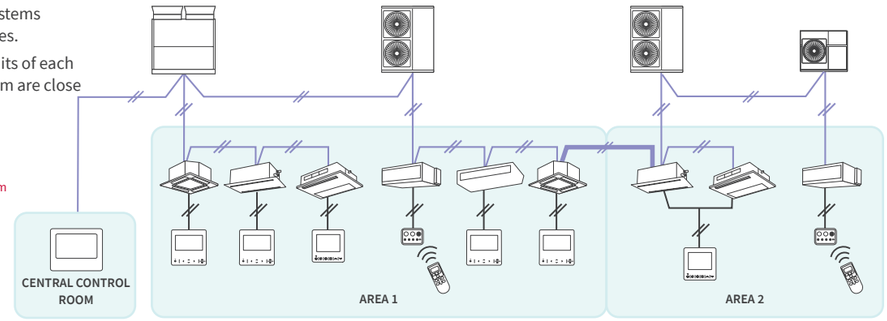
(1) • Multiple refrigerant systems located in one area.
• Central monitoring room in separate area.

H-LINK SOLUTION
→ Wire the central station to the closest indoor unit.
→ Wiring distance is reduced substantially.



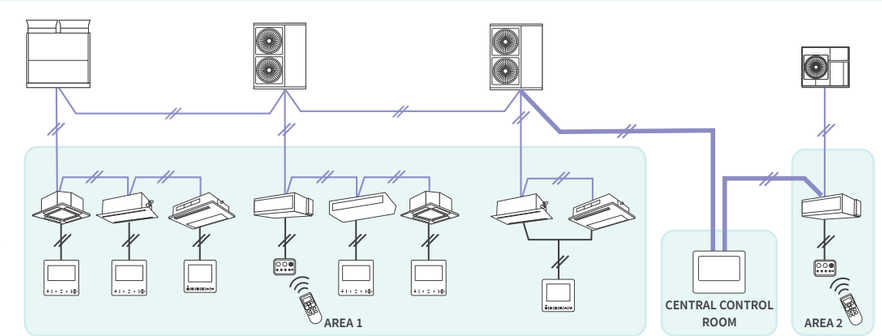
(2) • Refrigeration systems in different places.
• Some indoor units of each respective system are close to one another.

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



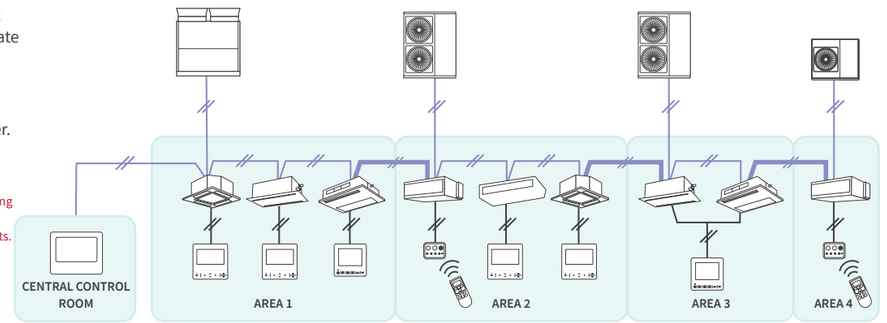
(3) • One refrigerant system far away from the remaining ones.

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



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

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



H-LINK solution H-LINK Remote control cable