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UFESNH1-C-2004

Cooling & Heating

PRIMAIRY

LARGE SINGLE SPLIT INVERTER SERIES | HEAT PUMP













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Living

Harmony

VELCOME

03 — 04



Welcome

The beauty of balance

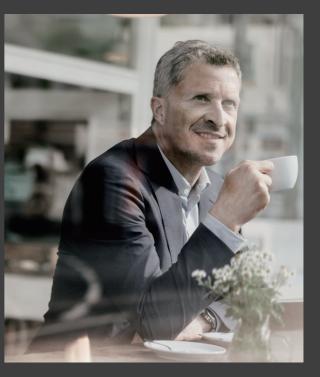
No matter what the weather is like outside, when you're indoors, you want to have complete control over your environment. At work or play, awake or asleep, you're free to create your own atmosphere; balancing energy with calm, sound with silence and light with shade. It's the same for cooling and heating.

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





health can thrive.

We live & breathe innovation

Since 1952, Hitachi's Cooling & Heating technology has been helping make life more harmonious for people around the world. Today, our long heritage of precision Japanese engineering ensures that no detail is overlooked in our quest to create Living Harmony.

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.



Living Harmony

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

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

07 — 08

Your world

We live in it together

WELCOME

Connecting with you

Reaching out

Finding the right appliances can be tricky. PRIMAIRY is an air-conditioning system that was created to become a part of your long-term surroundings.



PRIMAIRY units integrate smoothly into your daily life, improving the experience for everyone involved with your business. Our range is especially adapted for places such as shops, restaurants, cafés, creative studios, galleries, workshops and classrooms.



At your service

Your environment will always be filled with fresh air, at the temperature needed, with a minimum of effort or irritation.

Our aim is to bring greater comfort to your working days and to your customers' visits to your store, office or workspace.



Made for you

Each component of your new system will arrive ready for rapid installation and operation. Units not only combine advanced software and hardware design, they are assembled with passion. Every unit undergoes rigorous testing before it is shipped. Climates may vary, but whether it is cold or hot, PRIMAIRY can withstand harsh weather and general wear and tear.

Our adjustable ESP (External Static Pressure) design ensures that all air vents provide cool or heated air evenly and reliably. To accommodate your space, flexible piping and a comprehensive capacity range are available. When facing a unit malfunction, error codes will be clearly displayed to facilitate maintenance. There is always a PRIMAIRY solution suited to your needs.



Striving for perfection

A set of strong beliefs and practices at Hitachi have paved the way for generations of efficient products.PRIMAIRY represent the culmination of much collective effort, giving the series a great advantage – and making PRIMAIRY the right way to go, for you, your employees and your customers.

Your loyal partner

Assisting you by improving the temperature and quality of air in your workspace is our role as a partner. An integral element of this is durability.



Customers from across the globe have voiced concerns to us in the past about their systems' ability to resist deterioration. In the development of PRIMAIRY, safeguard devices have been added to limit damage, including sensors, special coatings and sturdy surfaces.



Introducing PRIMAIRY

PRIMAIRY's aims

PRIMAIRY is an air system series made to cope with the foremost daily needs of small business owners and people living and working in small to medium-sized spaces around the world. The name 'PRIMAIRY' signifies the goal of addressing the 'Primary' needs of people in terms of giving them access to cleaner, consistently modified air in their environments.

Some features may not apply to the units sold in your country.



PRIMAIRY R32 IN NUMBERS

-15°C~+48°C

Heating and cooling at exigent temperatures

PRIMAIRY can work with extreme temperatures, from -15°C to +48°C in cooling mode and to +24°C in heating mode. PRIMAIRY enables reliable climatization to users who requires consistent resistance to demanding climates.

16 steps

Multiple steps of adjustment

Quiet operation is a must. The outdoor DC motor has 16 steps of automatic adjustment to reduce fan speed and frequency of movement, leading to reduced noise.

30%

Maintains 30% refrigerant level

Ensures the strong performance of the refrigerant circulation components. When the refrigerant volume is less than 30%, the unit automatically registers this and displays the relevant fault code, prompting users to maintain the system.

50m

Extended height and length

Up to 50m in pipe length can be covered when the unit is being installed, and up to 30m in height, depending on your needs.

Reliable partners for small businesses

The need for a comfortable and quiet environment as the basis for a small business to thrive. Reliability, adaptability to each physical setting and precise control for users are the technical priorities of PRIMAIRY.

Design for different spaces

Different indoor machines can be matched with different spaces to meet the desired level of control, upkeep and comfort. Users also decide how their system will fit into their space aesthetically.

Diligent manufacturing

Stable operation of key equipment like the compressor, in typical and extreme temperatures, the inclusion of auto restart after power failure and self-diagnosis of faults are all the result of improvement and application of research. The careful design and continuous support in maintenance of machines indicates how much we care about ensuring comfort in your space.

Your need is our motivation

Your requirements for setting up a harmonious space for working and living are our central concern. Based on previous breakthroughs as well as plenty of updated studies, we have assembled a series that targets the core needs shared by global users, while coming equipped to adapt to the personal wishes of each individual owner, no matter how their space is laid out.

Your spaces & PRIMAIRY

PRIMAIRY is prepared to take care of the air around you. You, your colleagues and customers deserve to feel comfortable in every situation. This means finding and installing the ideal unit for your particular interior, a process we will be happy to help with. We will also help you run your unit correctly and intervene when repair is needed.



Restaurant & Café

Retail Space

Small Work Space



"Running a café means noise, buzz, activity and trapped heat. Having a correct and consistent A/C lets my customers relax and enjoy their drinks – and I can see the difference in their moods."



"I work with clothes, and the fabric can heat up in summer and make things stuffy. The store is cold in winter. Without the system to regulate things all year round, the seasons would really get to me."



"I stay late at the office along with my colleagues if there is a big project to finish. Having a comfortable setting is essential, and the airflow system that management installed is a big part of this." They might not know each other, but we know them: A community of customers around the world is connected by hard work and a commitment to a harmonious environment. We inside Hitachi will always strive to support them. "Having a comfortable setting is essential. The air-conditioning system that management installed is a big part of this."





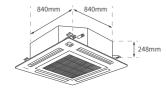
General **Features**

Features, advantages and benefits

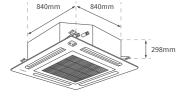
PRIMAIRY includes all required for selection, installation and maintenance, making it the perfect choice for small businesses and workplaces, as well as other interior spaces. When in use, PRIMAIRY responds sensitively to air temperature and maintains it at the desired level, using just the right amount of energy.

INDOOR UNITS

CASSETTE UNIT

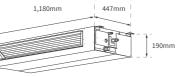


RCI-3.0UFE1NH RCI-3.5UFE1NH RCI-4.0UFE1NH

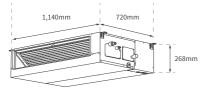


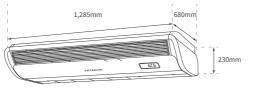
RCI-5.0UFE1NH RCI-6.0UFE1NH RCI-6.5UFE1NH





RPIL-3.0UFE1NH





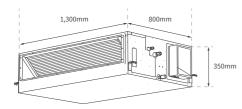
FLOOR CEILING CONVERTIBLE UNIT

6.0

RPFC-3.0UFE1NH

RPFC-3.5UFE1NH RPFC-4.0UFE1NH





RPIH-5.0UFE1NH

RPIH-6.0UFE1NH

RPIH-6.5UFE1NH

RPIH-3.5UFE1NH

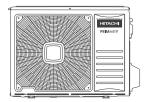
RPIH-4.0UFE1NH

1,580mn 5:5

> RPFC-5.0UFE1NH RPFC-6.0UFE1NH RPFC-6.5UFE1NH

OUTDOOR UNITS

Dimension (W×H×D) 860×670×310mm

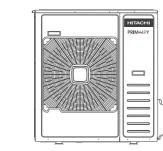


RAS-3.0UFESNH1 RAS-3.5UFESNH1

RAS-4.0UFESNH1

Dimension (W×H×D) 950×840×340mm

HITACHI

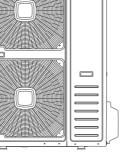


Dimension (W×H×D) 950×1050×340mm

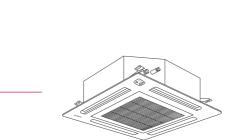
> RAS-5.0UFESMH1 RAS-5.0UFESNH1



Dimension (W×H×D)



RAS-6.0UFESMH1 RAS-6.0UFESNH1 RAS-6.5UFESMH1

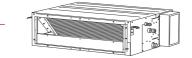


A multi-speed fan helps satisfy various airflow

MULTI-SPEED FAN (INDOOR UNIT)

requirements.

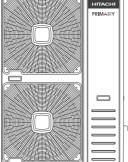
Cassette unit



Ducted unit



Floor Ceiling Convertible unit

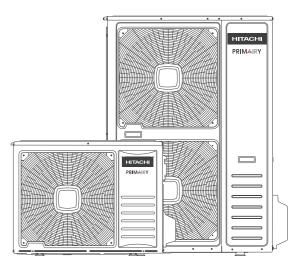


AUTO RESTART

Units are automatically returned to previous operation conditions after a power outage, for simplified operation.

QUIET OPERATION

Units have a quiet mode that reduces the fan speed and the frequency of the compressor, resulting in a low operation noise, keeping your family and neighbors content.





Sustained testing, engineering and design have created air conditioners that are very well suited to keeping their core functions running. The outdoor unit can endure a wide temperature range and regulates its own response to freezing.



EFFICIENCY RATIO

Ducted unit



Cassette unit



HIGH EFFICIENCY FIN HIGH EFFICIENCY HEAT EXCHANGER





High Φ7 louver

High Φ7 louver

High Φ7.94 louver

SEER SCOP

5.0

4.0

5.87 5.93

5.45 5.30

3.82 3.78 3.68 3.78

6.0

HIGH EFFICIENCY DC FAN MOTOR

Floor ceiling convertible unit

6.10

3.5

4.01 4.10

(W/W) 7.0

6.0

5.0

4.0 3.0 2.0 1.0

0.0

5.81

3.0

The fan motors of indoor and outdoor units are DC fan motors, which can adjust speed and ESP automatically. This makes the running of the units more reliable and efficient with low noise.

6.5 (HP Class)

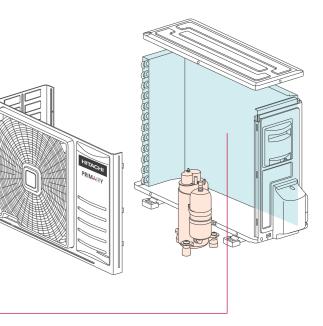
SMART DEFROST

The smart defrost software and added defrost sensor will precisely control the defrost time and effect, which can effectively avoid the defrost delay.









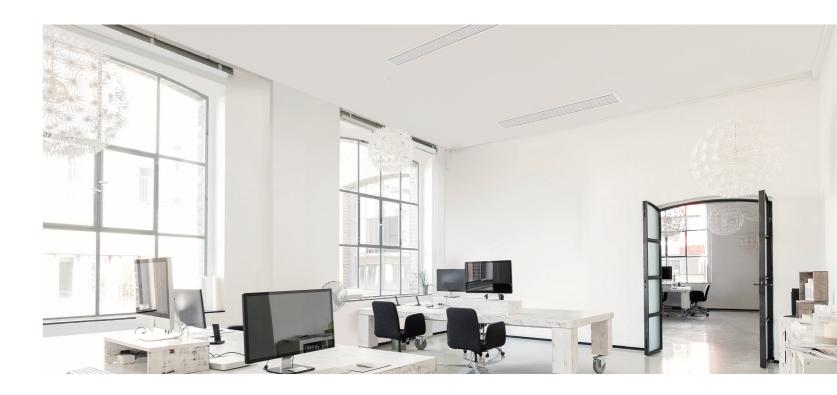
GENERAL FEATURES

EFFICIENCY & ECOLOGY

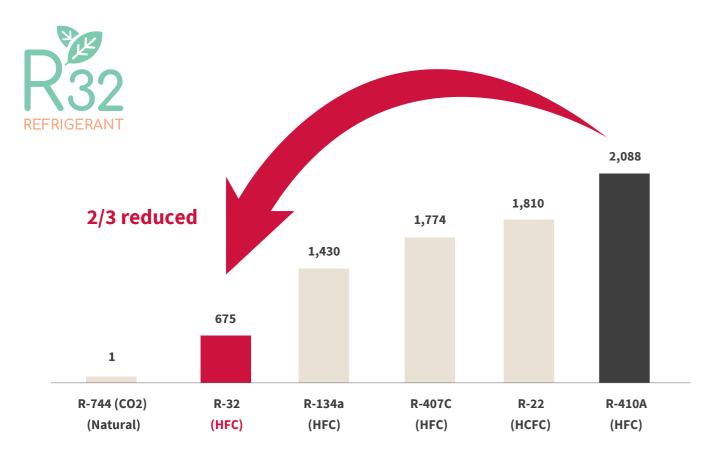
Being eco-friendly by applying R32 Refrigerant

To minimize F-Gas emission, Hitachi applies R32 refrigerant in this series which helps to reduce GWP (Global Warming Potential) by 2/3 while ODP (Ozone Depletion Potential) is 0.

R32 adoption leads to better efficiency levels Adopting the use of R32 refrigerant, allows PRIMAIRY R32 to boost the excelent efficiency levels of its predecessor to an even further level.



Global warming potential (GWP) comparison:

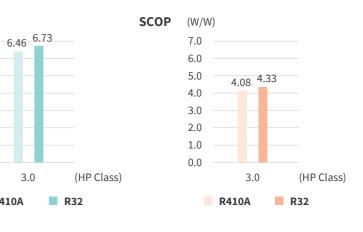


IMPROVED ENERGY EFFICIENCY

Ducted unit (3.0HP)



Cassette unit (3.0HP) SEER (W/W) 7.0 6.0 5.0 4.0 3.0 2.0 1.0 0.0 R410A

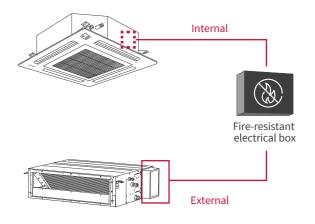




How to know when a product is truly safe? When it is hardly ever necessary to check it. Each key area requiring a failsafe feature has been thoroughly researched and a dependable solution incorporated. Where possible, Hitachi air-conditioning units are self-diagnosing when it comes to errors. Physical protection is combined with sensors for a system of smooth operation and security.

SAFETY PROTECTION

An encompassing metal box design ensures full product safety.



LOW/HIGH PRESSURE SWITCH

High pressure and Low pressure switches keep the system and compressor reliable.

Comments:

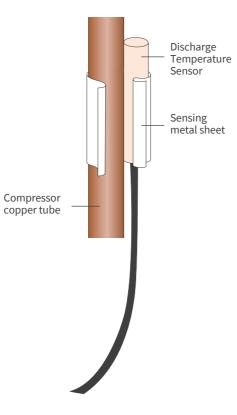
For Inverter series, there's no LP&HP switch for 3.0HP and no LP switch for 4.0HP.

TEMPERATURE PROTECTION SYSTEM

- Fan motor overheating protection
- Compressor overheating protection
- Compressor starts preheating in cold climate (Only for Heat Pump)

DISCHARGE TEMPERTURE SENSOR

Ensures the compressor will operate in the safety range, and prevent the damage caused by refrigerant leakage.



RELIABLE RUNNING

Oil viscosity testing was taken for compressor in order to ensure reliable operation.

ERROR SELF-DIAGNOSIS FUNCTION

The error code is clearly displayed on the diagnostic panel of the outdoor unit for quick troubleshooting and maintenance.

OUTDOOR UNIT ERROR CODE DISPLAY

ON/OFF UNITARY TYPE (with outdoor control box) There are two ways an error is displayed: in digits or via a flashing indicator light on an outdoor control board. Based on the digits or the amount of times the light flashes, various faults are represented.

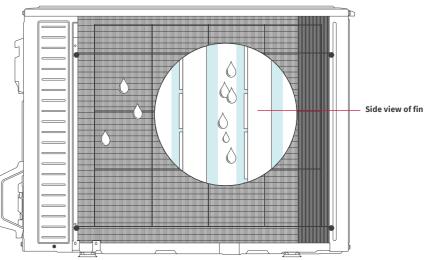
REFRIGERANT LEAKAGE DETECTION

The indoor unit will stop operation automatically and show an error code when the refrigerant charging amount is lower than 30%, which can avoid the compressor being damaged by high temperature due to refrigerant leakage. When the refrigerant charging amount is between 30%~80%, the unit will judge itself if showing an error code is necessary. This feature can also better ensure the heat transfer efficiency and the safety of the unit.

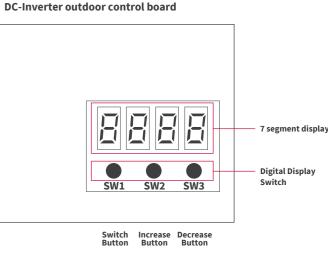
HYDROPHILIC ALUMINUM FIN

A hydrophilic aluminum fin enhances heat exchanging performance by increasing water mobility on fin surface and preventing water droplets from forming blockage between fins. The blue coating enhances protection from corrosion resulting from environmental and microbiological factors, increasing reliability and ensuring performance.

With hydrophilic coating



The coating prevents water droplets collecting on the fins and causing blockages.



It can be used to check outdoor running parameters.



– DESIGN FLEXIBILITY

WIDE AMBIENT TEMPERATURE RANGE

High cooling and heating performance within a wide ambienttemperature range.

If your business requires cooling all year long (technical rooms, server rooms) you can trust PRIMAIRY, as cooling can operate from -15^aC to +48^oC. Focus on your business and PRIMAIRY will take care.



MORE FLEXIBLE PIPING

Both short and long piping may be applicable to the installation needs of different sites. The right placement of the indoor unit is key to distributing the air properly.

Long piping and large height difference

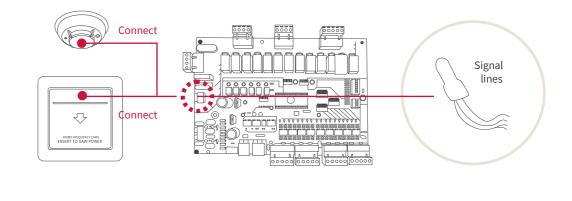
Up to 50m in piping run and 30m in height can be covered, with great overall flexibility in installation.

Piping	HP	3.0	3.5	4.0	5.0	6.0	6.5
Diameter (Liquid)	Inch	3/8	3/8	3/8	3/8	3/8	3/8
Diameter (Gas)	Inch	5/8	5/8	3/4	3/4	3/4	3/4
Max Length	m	50	50	50	50	50	50
Max Height	m	30	30	30	30	30	30



Built in inputs and outputs at the indoor unit enable connection to external systems as key slot or other device.

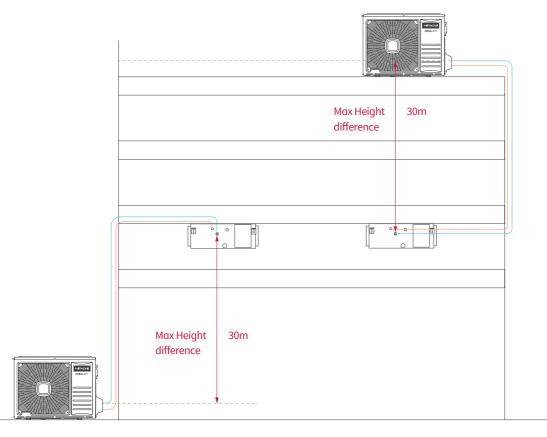
01
• N
Fo
th
au



Liquid pipe

Gas pipe

Outdoor unit above the indoor unit.



EASY INSTALLATION

EASIER HANDLING OUTDOOR UNITS

As with every other important variable in setting up your PRIMAIRY system, there are multiple alternatives available for the outdoor unit. Each one is modular and straightforward to fix into place. We will assist you in each key phase of installation as you set up your system.

COMPACTNESS AND LIGHTNESS

Free of unnecessary or weighty components, each unit can be carefully slid into place by the installation team.

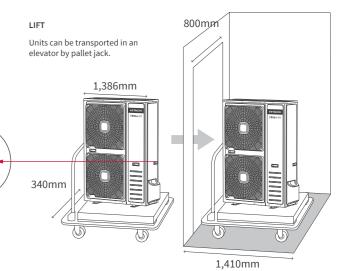


Outdoor unit below the indoor unit.

GENERAL FEATURES

Outputs typical applications: Malfunction alarm signal

For example: in a technical room, a signal indicating what a duct is not operating could be used to automatically switch on a backup duct.

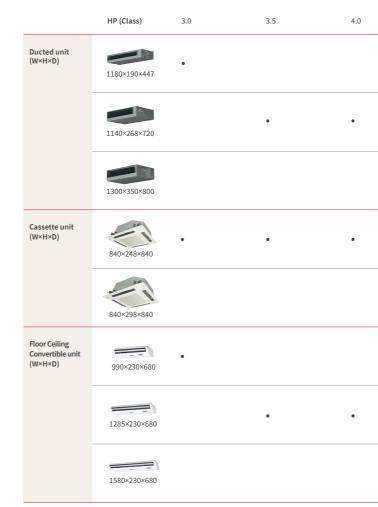


Indoor Life

Air moves within your interior spaces, making living and working more comfortable. The balanced design of the indoor units is key to making them unobtrusive, reliable and ultra-efficient. The Indoor unit's flexibility solves users' difficulties in conditioning their spaces, creating a comfortable environment for people to focus on their work or their business.

LINE-UP OVERVIEW

Indoor Unit Category



FREEDOM OF CHOICE

Which unit or units should you choose? There may be more than one good option, but you should take a little time to find the one that works best for you. Within the category of PRIMAIRY, there are three main units: Ducted, Cassette, and Floor Ceiling Convertible. INVERTER SERIES | HEAT PUMP TYPE

INDOOR UNITS

5.0	6.0	6.5
•	•	•
		•
•	•	

CASSETTE

FEATURES & BENEFITS

Cassette units are especially suited to narrow ceiling cavities or high ceilings. They fit to a standard ceiling grid and can be easily incorporated between



HCRA31NEWH

(Standard)



HCWA21NEWH (Optional)

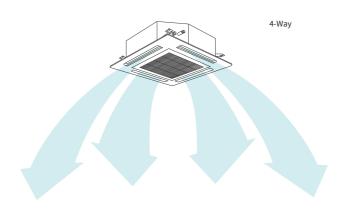
light panels and other overhead fixtures.



COMFORT

Homogeneous air flow with 4-Way louvers

Homogeneous distribution airflow is available with 4 way louvers for an excellent comfort at every corner of the room. Vertical and horizontal swing are available for air redistribution in all directions.

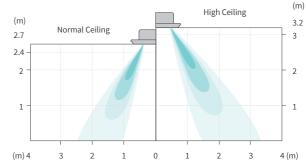


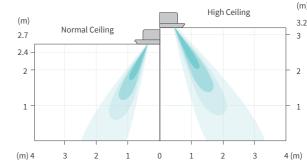
Temperature compensation

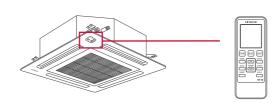
DESIGN FLEXIBILITY

more convenient.

Cassette bring temperature compensation setting by wired controller. This function can revise this temperature difference to make a more accurate temperature control.

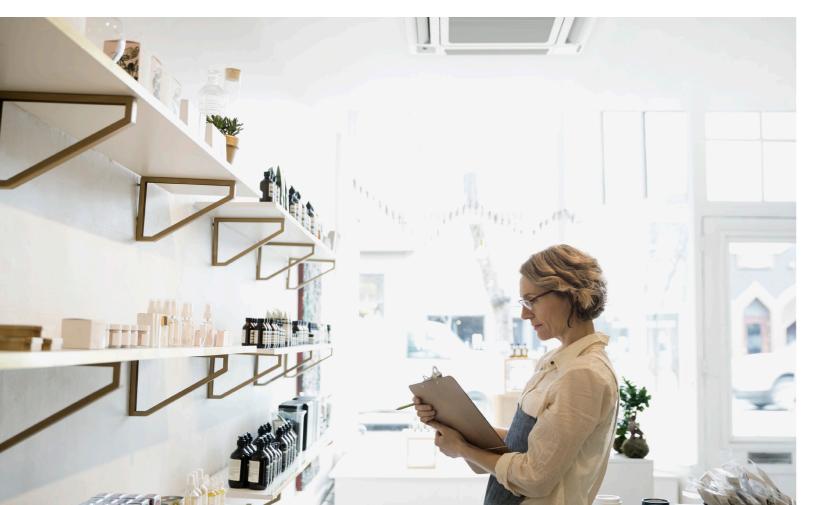


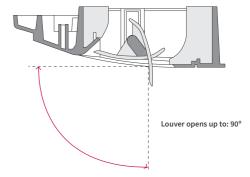




Infrared Receiver for Remote Controller

Reserved port for Remote sensing which makes control

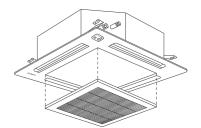




EASY MAINTENANCE

Washable Filter

A washable filter allows for cost-saving maintenance.



DUCTED

FEATURES & BENEFITS





HCWA21NEWH (Standard) HRBA31NEGH (Optional, includes IR receiver)



The efficient design makes the Ducted unit especially discreet. Ducted units can be installed in multiple points to thoroughly aerate each part of a space.



COMFORT

Durable Protection Drainage System

The special design of the drain pan makes condensation water flow smoothly without water leakage, and prevents rust.

When the drain pipe is clogged and the water rises to a certain level, the water level switch will float and send the signal to turn off the unit.

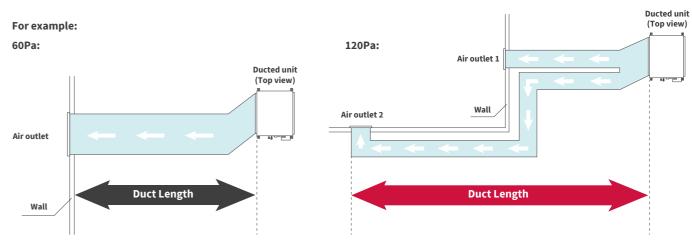
Built-in drain pan

Compared with outside drain pan design, the new builtin drain pan can reduce dust adhesion, and avoid water leakage.

DESIGN FLEXIBILITY

Wide ESP range up to 120Pa*

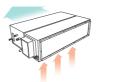
A wide ESP range means PRIMAIRY is suitable for spaces with many discrete areas, including corners and recesses. Multiple outlets can be connected to the ducted unit to ensure a uniform gust of air around a complex space. A system can be set up in a short time and will run reliably into the future.



*except 3HP

Flexible air return from bottom or rear

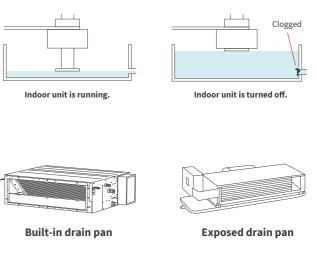
Depending on different space layout, the installation will be highly flexible.





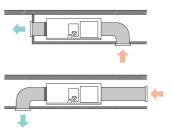
Bottom air intake

R





Rear air intake



OR CEILIN DNVE FEATURES & BENEFITS





HCRA31NEWH (Standard)

HCWA21NEWH (Optional)

designed for discretion, comfort and control.

Small to medium-sized spaces benefit well from this slender unit.

After a straightforward installation the unit blends into your interior. The fresh air intake, fan housing and other features have all been



COMFORT

Fresh air inlet Allows fresh air intake to improve indoor ventilation and air quality.

• Fresh air inlet



DESIGN FLEXIBILITY

Installation on Floor or Ceiling A unit that can function equally well after floor installation or suspended ceiling installation can adapt to many different room layouts, business types or living spaces.

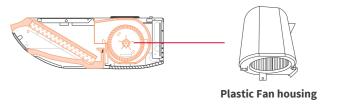


Metal frame of drain pan

The drain pan uses an integrated design with high-strength steel and PS foam. This ensures the durability of the drain pan and improves the thermal insulation and anti-condensation properties of the unit.

Plastic Fan housing

Plastic fan housing can reduce the noise level effectively.



Installation on Ceiling Installation on Floor 680mm Air Outlet Air Outlet 1 Air Inlet Air Inlet 230mm (·· o) Metal Frame



Controllers

Selecting temperature range and other options on your PRIMAIRY device is crucial to a good experience. The simple interface and dependable functions in the wall-mounted and handheld controls make assigning the correct settings easy.

REMOTE CONTROLLER

The remote control is practical and intuitive in design, with a simple button set that allows you to control your unit instantly. The classic LCD display matches the wired control point, with each working element represented in one frame. The remote uses a minimum amount of power, running on a single battery for a long period, before requiring a replacement.

WIRED CONTROLLER

You can keep an eye on exactly what your system is doing thanks to the ultra-clear touchscreen display on the Wired Control Point. This is your main interaction point with your PRIMAIRY system, so it is thankfully easy to use from the first try onwards. Choose the temperature, fan speed and timing for your system to ensure an ideal working and living space. Weekly timer to schedule operation for the week, lock function to avoid your customers to accidentaly modify the operation gives you freedom to fully dedicate yourself

to your business. Set temperature can also be measured at the remote thanks to its built in thermostat, so comfort temperature

HCWA21NEWH

will be with your customers.

HRBA31NEGH for duct, includes IR receiver

	HITACHI	/TRANSMISSION SIGN
	SITTER TO BEEP OFF COL UNING AUTO COOL DRY (HEAT FAN SLEEP FAN SPEED AUTOHINELOOLO	DISPLAY
AN speed (HI/ME/LO/QLO/AUTO) ANDE (COOL/DRY/HEAT/FAN)		ON/OFF
IMER	TIMER	POWERFUL Function
UTO button		Temperature
Auto mode selects heating, cooling or an mode, automatically)		LEFT/RIGHT Louver
SLEEP button		UP/DOWN Louver
To set the sleep mode)		RESET button

Operation mode Heating mode Cooling mode ₩₩¢%%%&©_{™ weekly} 8:59 🧏 河 👓 🔍 SE _____`F % ____` Lock indicator **ON/OFF** button HITACHI **MODE** button FAN speed (HI/ME/LO/AUTO) Fan speed setting Timer setting Timer ON Auto fan speed Timer OFF Ultrahigh fan speed High fan speed Mideum fan speed Low fan speed Ultralow fan speed



Dry mode

Timer set for a week



Specifications

On the following pages you will find the full breakdown of technical specifications for the PRIMAIRY range.



SPECIFICATIONS

SPECIFICATIONS

– CASSETTE

DU			RCI-3.0UFE1NH	RCI-3.5UFE1NH	RCI-4.0UFE1NH	RCI-5.0UFE1NH	RCI-5.0UFE1NH	RCI-6.0UFE1NH	RCI-6.0UFE1NH	RCI-6.5UFE1NH
DU			RAS-3.0UFESNH1	RAS-3.5UFESNH1	RAS-4.0UFESNH1	RAS-5.0UFESMH1	RAS-5.0UFESNH1	RAS-6.0UFESMH1	RAS-6.0UFESNH1	RAS-6.5UFESMH1
ower supply (Indoor)		V/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50
ower supply (Outdoor)		V/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50	380~415/3/50	220~240/1/50	380~415/3/50	220~240/1/50	380~415/3/50
ax.input consumption		W	4,100	4,100	5,100	6,400	6,400	7,100	7,200	7,800
ax.input current		A	18.1	18.0	22.5	11.6	28.2	12.1	30.0	13.1
erage (Cooling)	Pdesignc	kW	7.00	8.70	10.10	12.10	12.70	13.89	14.00	16.90
	SEER	W/W	6.73	6.10	6.10	6.05	5.90	5.64	5.70	5.60
	ηs,c	100%	-	-	-	239%	233%	223%	225%	221%
	Energy Efficiency Class		A++	A++	A++	-	-	-	-	-
	Annual energy consumption	kWh/a	388	511	580	757	705	894	859	883
erage (Heating)	Pdesignh	kW	6.00	7.20	8.20	9.50	9.00	13.50	13.00	13.50
	SCOP	W/W	4.33	4.20	3.92	3.98	3.80	3.81	3.75	3.87
	ηs,c	100%	-	-	-	156%	149%	149%	147%	152%
	Energy Efficiency Class		A+	A+	A	-	-	-	-	-
	Annual energy consumption	kWh/a	1,907	2,423	3,018	3,675	3,305	5,086	4,765	4,037
oling	Capacity (Rated)	kW	7.00	8.70	10.10	12.10	12.70	13.89	14.00	16.90
-	Capacity (Range.Min~Max)	kW	2.40~7.85	4.00~9.20	3.50~11.00	3.30~13.20	3.30~13.20	3.40~16.20	3.40~16.20	3.30~18.00
	Input	kW	1.91	2.71	3.72	4.24	4.31	4.81	5.00	6.72
	Current	A	8.5	11.8	16.8	7.4	18.7	8.7	22.0	12.5
	EER	W/W	3.66	3.21	2.72	2.85	2.95	2.89	2.80	2.51
eating	Capacity (Rated)	kW	8.25	9.00	11.20	13.50	13.30	16.53	15.80	19.49
	Capacity (Range.Min~Max)	kW	2.10~8.80	3.50~9.50	3.32~12.00	3.00~14.60	3.00~14.60	3.70~18.00	3.70~18.00	3.00~21.00
	Input	kW	2.03	2.25	3.50	3.70	3.86	4.71	4.95	6.74
	Current	A	9.00	9.80	16.00	6.50	16.80	8.40	23.00	12.60
	COP	W/W	4.06	4.00	3.20	3.65	3.45	3.51	3.19	2.89
loor unit	Dimension (W×H×D)	mm	840×248×840	840×248×840	840×248×840	840×298×840	840×298×840	840×298×840	840×298×840	840×298×840
ioor unit	Weight (Net/Gross)	kg	25/34	27/36	27/36	32/41	32/41	32/41	32/41	32/41
	Air Volume (Hi/Med/Lo)	m ³ /h	1,180/980/720	1,400/1,120/900	1,600/1,300/1,000	1,850/1,700/1,550	1,850/1,700/1,550	2,100/1,700/1,400	2,100/1,700/1,400	2,100/1,700/1,400
	Sound Level (SPL)(Hi/Med/Lo)	dB(A)	45/42/37	48/46/42	50/45/42	51/49/47	51/49/47	51/45/42	51/45/42	52/45/42
		dB(A)	59	62	65	64	64	65	65	68
	Sound Level (PWL)(Hi) Controller (Type/Model)	UD(A)								
			Wireless/HCRA31NEWH	Wireless/HCRA31NEWH	Wireless/HCRA31NEWH	Wireless/HCRA31NEWH Included	Wireless/HCRA31NEWH Included	Wireless/HCRA31NEWH Included	Wireless/HCRA31NEWH Included	Wireless/HCRA31NEWH Included
	Drain pump		Included	Included	Included					
	Air filter		Included	Included	Included	Included	Included	Included	Included	Included
inel	Dimension (W×H×D)	mm	950×37×950	950×37×950	950×37×950	950×37×950	950×37×950	950×37×950	950×37×950	950×37×950
	Weight (Net/Gross)	kg	6.0/10.0	6.0/10.0	6.0/10.0	6.0/10.0	6.0/10.0	6.0/10.0	6.0/10.0	6.0/10.0
mpressor	Туре		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
utdoor unit	Dimension (W×H×D)	mm	860×670×310	860×670×310	950×840×340	950×1,050×340	950×1,050×340	950×1,386×340	950×1,386×340	950×1,386×340
	Weight (Net/Gross)	kg	49/53	49/53	70/75	85/95	85/97	101.5/114.5	101.5/114.5	109/121
	Air Volume (Hi)	m ³ /h	3,150	3,150	3,800	5,800	5,800	6,300	6,300	6,300
	Sound Level (SPL)(Hi)	dB(A)	54	54	58	62	62	62	62	67
	Sound Level (PWL)(Hi)	dB(A)	69	70	70	76	76	76	76	80
	Refrigerant (Type/Amount)	kg	R32/1.40	R32/1.45	R32/2.00	R32/2.50	R32/2.50	R32/3.00	R32/3.00	R32/3.40
rigerant piping	Liquid/Gas	mm(inch)		Φ9.52/Φ15.88 (3/8'/5/8')	Φ9.52/Φ19.05 (3/8'/3/4')	Φ9.52/Φ19.05 (3/8'/3/4')	Φ9.52/Φ19.05 (3/8'/3/4')	Φ9.52/Φ19.05 (3/8'/3/4')	Φ9.52/Φ19.05 (3/8'/3/4')	Φ9.52/Φ19.05 (3/8'/3/4')
	Max.pipe length	m	50	50	50	50	50	50	50	50
	Max.height difference (OD lowe	r) m	30	30	30	30	30	30	30	30
	Max.height difference (OD high	er) m	30	30	30	30	30	30	30	30
	Add Refrigerant Amount	g/m	28	28	28	28	28	28	28	28
	Pipe Length for Additional Refrigerant	m	5	5	5	5	5	5	5	5
nbient temperature	Cooling	°C	-15~+48	-15~+48	-15~+48	-15~+48	-15~+48	-15~+48	-15~+48	-15~+48
indient temperature										

Nominal testing conditions: Cooling - Indoor (27°C DB / 19°C WB) & Outdoor (35°C DB / 24°C WB) Heating - Indoor (20°C DB / 15°C WB) & Outdoor (7°C DB / 6°C WB)

SPECIFICATIONS

-DUCTED

DU			RPIL-3.0UFE1NH	RPIH-3.5UFE1NH	RPIH-4.0UFE1NH	RPIH-5.0UFE1NH	RPIH-5.0UFE1NH	RPIH-6.0UFE1NH	RPIH-6.0UFE1NH	RPIH-6.5UFE1NH
UDC			RAS-3.0UFESNH1	RAS-3.5UFESNH1	RAS-4.0UFESNH1	RAS-5.0UFESMH1	RAS-5.0UFESNH1	RAS-6.0UFESMH1	RAS-6.0UFESNH1	RAS-6.5UFESMH1
Power supply (Indoor)		V/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50
Power supply (Outdoor)		V/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50	380~415/3/50	220~240/1/50	380~415/3/50	220~240/1/50	380~415/3/50
Aax.input consumption		W	4,100	4,100	5,100	6,400	6,400	7,200	7,200	7,800
lax.input current		A	18.1	18.0	22.5	11.6	28.2	12.6	30.0	13.1
verage (Cooling)	Pdesignc	kW	6.90	8.50	10.10	12.10	12.50	14.19	14.10	17.10
	SEER	W/W	6.29	6.20	6.10	6.28	6.10	5.94	5.94	5.81
	ης,c	100%	-		-	248%	241%	235%	235%	229%
	Energy Efficiency Class	10070	A++	A++	A++	-	-	-	-	-
	Annual energy consumption	kWh/a	395	499	577	761	698	849	829	943
verage (Heating)	Pdesignh	kW	6.00	6.50	8.20	9.50	9.00	12.40	12.10	11.00
	SCOP	W/W	4.05	4.00	3.92	3.70	3.70	3.70	3.70	3.72
	ης,c	100%	-	-	-	145%	145%	145%	145%	146%
	Energy Efficiency Class	10070	A+	A+	A	-	-	-	-	-
	Annual energy consumption	kWh/a	2,007	2,313	2,926	3,674	3,392	4,694	4,503	4,205
oling	Capacity (Rated)	kW	6.90	8.50	10.10	12.10	12.50	14.19	14.10	17.10
06	Capacity (Range.Min~Max)	kW	2.45~7.85	4.00~9.50	3.50~11.00	3.30~13.20	3.30~13.20	3.20~16.00	3.20~16.00	3.30~18.50
	Input	kW	2.45 1.85	2.67	3.80	4.22	4.38	4.78	4.78	6.60
	Current	A	9.5	11.6	17.1	7.4	19.0	8.7	21.0	12.5
	EER	W/W	3.19	3.18	2.66	2.87	2.85	2.97	2.95	2.59
ating	Capacity (Rated)	kW	8.30	9.00	10.50	13.40	12.80	16.13	16.50	18.00
ating	Capacity (Range.Min~Max)	kW	2.20~8.70	3.50~9.40	3.32~12.00	3.00~14.60	3.00~14.60	3.40~18.50	3.40~18.50	3.00~19.50
					3.50	4.07	3.82	4.65	4.85	6.10
	Input	kW	2.22	2.40	16.0					11.6
	Current	A	10.3	10.5		7.3 3.29	3.35	3.47	21.0 3.40	2.95
	COP	W/W	3.74	3.75	3.00					
loor unit	Dimension (W×H×D)	mm	1,180×190×447 24/27.5	1,140×268×720 37.5/44.5	1,140×268×720 37.5/44.5	1,300×350×800 51/60	1,300×350×800 51/60	1,300×350×800 51/60	1,300×350×800 51/60	1,300×350×800 51/60
	Weight (Net/Gross)	kg						-		
	Air Volume (Hi/Med/Lo)	m ³ /h	1,000/700/490	1,450/1,120/900	1,800/1,600/1,400	1,750/1,500/1,300	1,750/1,500/1,300	2,400/2,200/1,900	2,400/2,200/1,900	2,400/2,200/1,900
		dB(A)	38/34/31	41/38/33	42/40/38	43/40/37	43/40/37	47/45/42	47/45/42	48/45/43
	Sound Level (PWL)(Hi)	dB(A)	61	63	65	69	69	77	77	77
	External Static Pressure (Rated)		25	37	37	50	50	50	50	50
	External Static Pressure (Range)) Pa	0~40	0~120	0~120	0~120	0~120	0~120	0~120	0~120
	Controller (Type/Model)		Wired/HCWA21NEWH	Wired/HCWA21NEWH	Wired/HCWA21NEWH	Wired/HCWA21NEWH	Wired/HCWA21NEWH	Wired/HCWA21NEWH	Wired/HCWA21NEWH	Wired/HCWA21NEWH
	Drain pump		Included	Included	Included	Included	Included	Included	Included	Included
	Air filter		Included	Included	Included	Included	Included	Included	Included	Included
mpressor	Туре		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
tdoor unit	Dimension (W×H×D)	mm	860×670×310	860×670×310	950×840×340	950×1,050×340	950×1,050×340	950×1,386×340	950×1,386×340	950×1,386×340
	Weight (Net/Gross)	kg	49/53	49/53	70/75	85/95	85/97	101.5/114.5	101.5/114.5	109/121
	Air Volume (Hi)	m ³ /h	3,150	3,150	3,800	5,800	5,800	6,300	6,300	6,300
	Sound Level (SPL)(Hi)	dB(A)	54	54	58	62	62	62	62	67
	Sound Level (PWL)(Hi)	dB(A)	69	70	70	76	76	76	76	80
	Refrigerant (Type/Amount)	kg	R32/1.40	R32/1.45	R32/2.00	R32/2.50	R32/2.50	R32/3.00	R32/3.00	R32/3.40
rigerant piping	Liquid/Gas	mm(inch)	Φ9.52/Φ15.88 (3/8'/5/8')	Φ9.52/Φ15.88 (3/8'/5/8')	Φ9.52/Φ19.05 (3/8'/3/4')	Φ9.52/Φ19.05 (3/8'/3/4')	Φ9.52/Φ19.05 (3/8'/3/4')	Φ9.52/Φ19.05 (3/8'/3/4')	Φ9.52/Φ19.05 (3/8'/3/4')	Ф9.52/Ф19.05 (3/8'/3/4')
	Max.pipe length	m	50	50	50	50	50	50	50	50
	Max.height difference (OD lower	r) m	30	30	30	30	30	30	30	30
	Max.height difference (OD highe	er) m	30	30	30	30	30	30	30	30
	Add Refrigerant Amount	g/m	28	28	28	28	28	28	28	28
	Pipe Length for Additional Refrigerant	m	5	5	5	5	5	5	5	5
nbient temperature	Cooling	°C	-15~+48	-15~+48	-15~+48	-15~+48	-15~+48	-15~+48	-15~+48	-15~+48
indient temperature					-15~+24	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24

Nominal testing conditions: Cooling - Indoor (27°C DB / 19°C WB) & Outdoor (35°C DB / 24°C WB) Heating - Indoor (20°C DB / 15°C WB) & Outdoor (7°C DB / 6°C WB)

SPECIFICATIONS

FLOOR CEILING CONVERTIBLE

IDU			RPFC-3.0UFE1NH	RPFC-3.5UFE1NH	RPFC-4.0UFE1NH	RPFC-5.0UFE1NH	RPFC-5.0UFE1NH	RPFC-6.0UFE1NH	RPFC-6.0UFE1NH	RPFC-6.5UFE1NH
ODU			RAS-3.0UFESNH1	RAS-3.5UFESNH1	RAS-4.0UFESNH1	RAS-5.0UFESMH1	RAS-5.0UFESNH1	RAS-6.0UFESMH1	RAS-6.0UFESNH1	RAS-6.5UFESMH1
Power supply (Indoor)		V/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50
Power supply (Outdoor)		V/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50	380~415/3/50	220~240/1/50	380~415/3/50	220~240/1/50	380~415/3/50
Max.input consumption		W	4,100	4,100	5,100	6,400	6,400	7,200	7,200	7,800
Max.input current		A	18.1	18.0	22.5	11.6	28.2	12.6	30.0	13.1
verage (Cooling)	Pdesignc	kW	6.50	8.60	9.80	12.10	12.70	13.60	14.00	16.30
	SEER	W/W	5.81	6.10	5.87	5.70	5.93	5.33	5.45	5.30
	ης,c	100%	-	-	-	225%	234%	210%	215%	209%
	Energy Efficiency Class	10070	A+	A++	A+	-	-	-	-	-
	Annual energy consumption	kWh/a	391	509	585	803	709	940	899	876
verage (Heating)	Pdesignh	kW	6.00	6.50	7.90	9.50	8.70	12.20	12.00	11.00
verage (neating)	SCOP	W/W	4.01	4.10	3.82	3.78	3.78	3.55	3.68	3.78
	<u>ης,c</u>	100%	4.01	-	-	148%	148%	139%	144%	148%
	Energy Efficiency Class	100%	A+	A+	A	-	-	-	14470	-
		kWh/a	2,168	2,192	2,825	3,868	3,133	5,015	4,887	4,509
- 11	Annual energy consumption								,	
ooling	Capacity (Rated)	kW	6.50	8.60	9.80	12.10	12.70	13.76	14.00	16.30
	Capacity (Range.Min~Max)	kW	2.45~7.85	3.50~9.00	3.50~11.00	3.30~13.20	3.30~13.20	3.10~16.10	3.10~16.10	3.30~18.00
	Input	kW	1.94	2.95	3.75	4.40	4.53	5.00	5.15	6.83
	Current	A	9.1	12.7	16.9	7.5	19.7	8.5	22.50	12.5
	EER	W/W	3.35	2.92	2.61	2.75	2.80	2.75	2.72	2.39
ating	Capacity (Rated)	kW	7.35	8.70	10.50	13.50	13.30	16.59	16.50	18.00
	Capacity (Range.Min~Max)	kW	2.20~8.70	3.00~9.20	3.32~12.00	3.00~14.60	3.00~14.60	3.60~18.00	3.60~18.00	3.00~19.00
	Input	kW	2.07	2.30	3.65	4.17	4.04	4.85	5.40	6.83
	Current	A	9.70	10.00	16.50	7.30	17.60	9.00	23.50	11.60
	СОР	W/W	3.55	3.78	2.88	3.24	3.29	3.42	3.06	2.64
door unit	Dimension (W×H×D)	mm	990×230×680	1,285×230×680	1,285×230×680	1,580×230×680	1,580×230×680	1,580×230×680	1,580×230×680	1,580×230×680
	Weight (Net/Gross)	kg	30/35	37/44	37/44	48/56	48/56	48/56	48/56	48/56
	Air Volume (Hi/Med/Lo)	m ³ /h	1,100/950/800	1,450/1,120/900	1,700/1,500/1,300	2,000/1,800/1,600	2,000/1,800/1,600	2,000/1,600/1,200	2,000/1,600/1,200	2,000/1,700/1,500
	Sound Level (SPL)(Hi/Med/Lo)	dB(A)	51/48/44	54/48/43	54/52/51	54/51/48	54/51/48	58/52/46	58/52/46	56/53/48
	Sound Level (PWL)(Hi)	dB(A)	65	65	65	68	68	75	75	74
	Controller (Type/Model)		Wireless/HCRA31NEWH	Wireless/HCRA31NEWH						
	Drain pump		Optional (for ceiling installation)	Optional (for ceiling installation						
	Air filter		Included	Included						
ompressor	Туре		ROTARY	ROTARY						
utdoor unit	Dimension (W×H×D)	mm	860×670×310	860×670×310	950×840×340	950×1,050×340	950×1,050×340	950×1,386×340	950×1,386×340	950×1,386×340
	Weight (Net/Gross)	kg	49/53	49/53	70/75	85/95	85/97	101.5/114.5	101.5/114.5	109/121
	Air Volume (Hi)	m ³ /h	3,150	3,150	3,800	5,800	5,800	6,300	6,300	6,300
	Sound Level (SPL)(Hi)	dB(A)	54	54	58	62	62	62	62	67
	Sound Level (PWL)(Hi)	dB(A)	69	70	70	76	76	76	76	80
	Refrigerant (Type/Amount)	kg	R32/1.40	R32/1.45	R32/2.00	R32/2.50	R32/2.50	R32/3.00	R32/3.00	R32/3.40
efrigerant piping	Liquid/Gas	mm(inch)	Φ9.52/Φ15.88 (3/8'/5/8')	Φ9.52/Φ15.88 (3/8'/5/8')	Φ9.52/Φ19.05 (3/8'/3/4')	Φ9.52/Φ19.05 (3/8'/3/4')				
	Max.pipe length	m	50	50	50	50	50	50	50	50
	Max.height difference (OD lowe		30	30	30	30	30	30	30	30
	Max.height difference (OD highe		30	30	30	30	30	30	30	30
	Add Refrigerant Amount	g/m	28	28	28	28	28	28	28	28
	Pipe Length for	m	5	5	5	5	5	5	5	5
	Additional Refrigerant									
mbient temperature	Additional Refrigerant Cooling	°C	-15~+48	-15~+48	-15~+48	-15~+48	-15~+48	-15~+48	-15~+48	-15~+48

Nominal testing conditions: Cooling - Indoor (27°C DB / 19°C WB) & Outdoor (35°C DB / 24°C WB) Heating - Indoor (20°C DB / 15°C WB) & Outdoor (7°C DB / 6°C WB)