HITACHI

PRIMAIRY

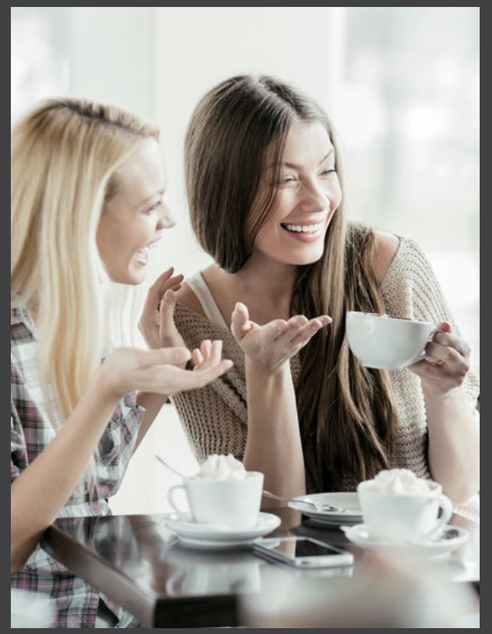
LARGE SINGLE SPLIT INVERTER SERIES I HEAT PUMP I R410A

Cooling & Heating

INDEX

Living Harmony

Welcome



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.

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.

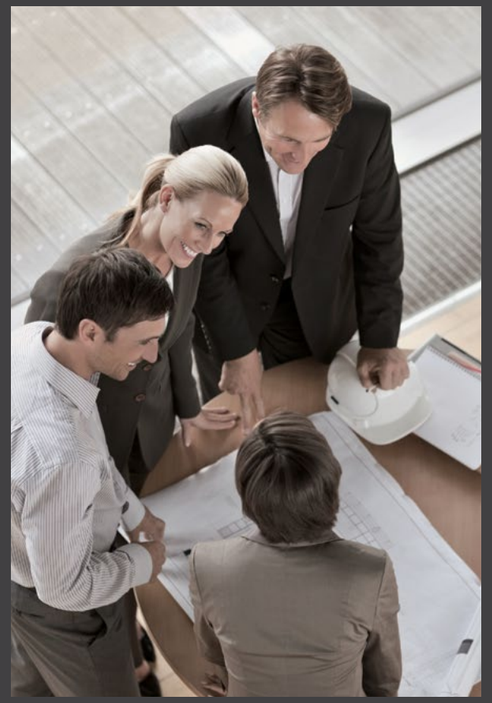
Living Harmony

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

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

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.

Your world

We live in it together

Connecting with you

Reaching out

Finding the right appliances can be challenging. 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, enabling you to concentrate on your business.

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 care. Every unit undergoes rigorous testing before it is shipped, ensuring it will withstand any challenges the climate presents.

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 represents the culmination of significant 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. You can count on us to provide systems that increase comfort and exceed expectations.

Customers from across the globe have voiced concerns to us in the past about how their systems have held up over time. In developing PRIMAIRY, we've taken extra measures to extend unit life through the application of sensors, special coatings, and durable surface materials.

Introducing PRIMAIRY

PRIMAIRY's aims

PRIMAIRY answers the need of people who live and work in small and medium-sized spaces for clean, comfortable air. The name 'PRIMAIRY' signifies our 'primary' goal of providing people with healthy, comfortable living environments.

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

-13°F(-25°C)

Low ambient cooling & heating
Our systems deliver consistent warmth to customers in cold climates. PRIMAIRY units are designed for low-ambient temperatures down to -13°F(-25°C) for our 24K model and down to -4°F(-20°C) in heating mode for all other models.

30%

Maintains 30% refrigerant level
We've worked to ensure the performance of critical refrigerant circulation components. When refrigerant volume is less than 30%, the unit automatically registers this and displays the relevant fault code, prompting the required maintenance.

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.

164ft (50m)

Extended height and length
Up to 164ft (50m) in pipe length can be covered when the unit is being installed, and up to 98ft (30m) in height, depending on your needs.

Reliable partners for small businesses

Every business benefits from a comfortable, quiet environment. That's why reliability, adaptability to physical settings, and precise control for users were priorities in the PRIMAIRY system.

Diligent manufacturing

Intensive research and development went into the PRIMAIRY system to ensure stable operation of key pieces of equipment, such as the compressor, in both typical and extreme temperatures. It is also reflected in product features such as auto restart after power failure and self-diagnosis of faults.

Design for different spaces

Different indoor units can be matched with individual spaces to meet customers' needs around aesthetics, comfort, maintenance, and control.

Meeting your needs is our goal

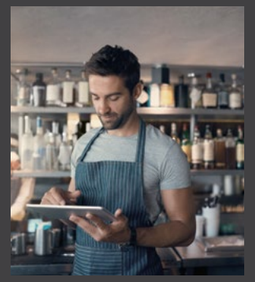
Your requirements for a harmonious living and working space are our central concern. Building on previous innovations and current research, we have developed a series that targets core needs shared by global users while enabling customizations for specific space requirements.

Your spaces & PRIMAIRY

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. You can also rely on us for timely maintenance and repair when needed.

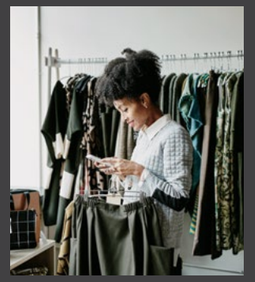
“Having a comfortable setting is essential. The air-conditioning system that is installed is a big part of this.”

Restaurant & Café



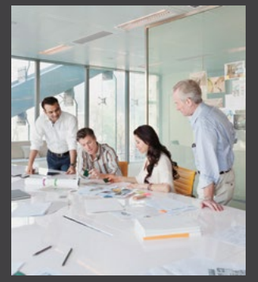
“Running a café means noise, buzz, activity and trapped heat. Having a correct and consistent A/C lets my customers relax and enjoy their drinks – and I can see the differenc in their moods.”

Retail Space



“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.”

Conference Room



"I spend a lot of time in meetings. Having a comfortable setting in the conference rooms is essential, and the airflow system that management installed helps me stay comfortable and focused."

IT Room

"Keeping IT rooms the right temperature year-round is very critical to our business. We need reliable solutions to keep our equipments running."

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 at Hitachi will always strive to support them.

General Features and Benefits

Features and Benefits

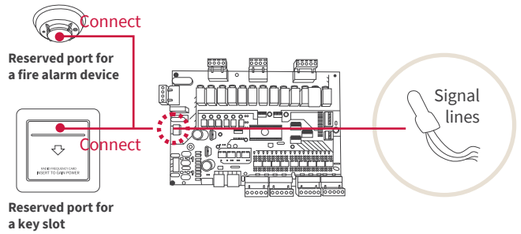
PRIMAIRY fits seamlessly into any lifestyle. For a small business or other interior space, controlling ambient temperature is effortless. PRIMAIRY works with you to create a more balanced environment so you can focus on what matters most.

COMFORT & CONVENIENCE

Comfort and convenience are our top priority. Choose one of the two PRIMAIRY models to enjoy uncommon comfort, control, and satisfaction.

EXPANSION INTERFACE

Convenience is important especially for our busy working lives. Our expandable interface can be connected to smoke detectors, key slots, or other devices, making life a little easier. The reserved port enables you to connect all these into one accessible device so you can get things done with ease.



e.g., Hotel key card systems, where guests can insert their room's key card to use power.

QUIET OPERATION

Quiet workspaces benefit everyone. Our quiet mode reduces the frequency of the compressor and fan speed, making your cooling and heating equipment run more quietly and smoothly, minimizing distractions.

AUTO RESTART

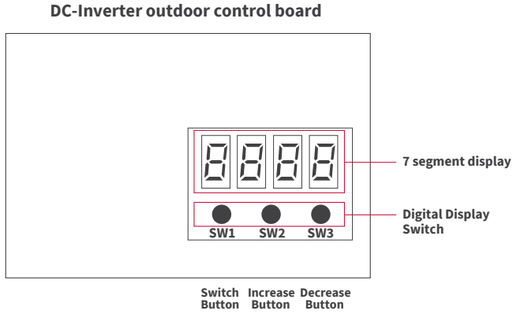
You don't have time to worry about your unit's custom settings. That's why your units will automatically revert back to your previous settings after a power outage for a speedy return to comfort.

ERROR SELF-DIAGNOSIS FUNCTION

The error self-diagnosis function scans your system to help identify specific problems, making repairs more effective and efficient. The error code is clearly displayed on the outdoor unit PC board for quick hassle-free troubleshooting, saving time and resources.

ERROR CODE DISPLAY

There are two ways an error will be displayed:
in digits or through a flashing indicator light on the control board. Based on the digits or the number of times the light flashes, various faults are shown.
This gives you concise readings to pinpoint the specific problem area.

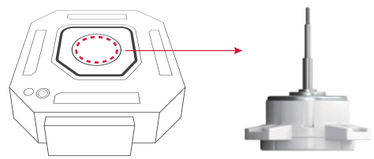


It can be used to check outdoor running parameters.

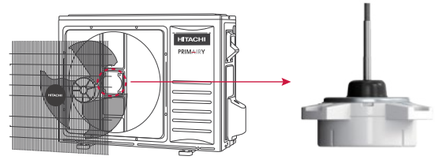
MULTI-SPEED FAN WITH BRUSHLESS DC MOTOR

Both our indoor and outdoor units feature a DC fan motor that switches fan speed seamlessly. Being able to adjust the speed with precision allows the units to be more economical, giving superior temperature control and delivering a more accurate temperature.

In addition, due to its brushless feature, faster speeds are achieved with no friction, eliminating energy loss and optimizing energy efficiency. Compared to AC motors, units are more compact, quiet, and stable.



Indoor unit **IDU Motor**



Outdoor unit **ODU Motor**

FOR INDOOR UNIT

A multi-speed fan can fulfill an accurate range of airflow requirements to provide an exact amount of air into the unit and maintain a high standard of working efficiency in your space. Better airflow control means a more even distribution of temperature that brings you more comfort.

FOR OUTDOOR UNIT

- Multiple fan speed options based on actual cooling or heating needs reduce power consumption. The exact speed allows for precise airflow for the heat exchange process without having to reduce capacity or waste power. PRIMAIRY incorporates a 16-speed fan motor that helps to provide an exact amount of air by automatically adjusting the
- fan speed precisely to make your unit run in an efficient and reliable way. Outdoor unit features a quiet mode that reduces fan speed and compressor operation frequency for quieter
- performance and happier family members and neighbors.

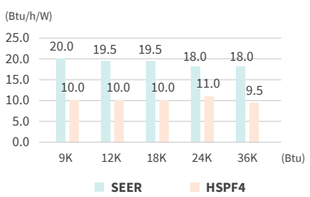
Multi-speed fans helps to provide more accurate temperature and save energy.

EFFICIENCY

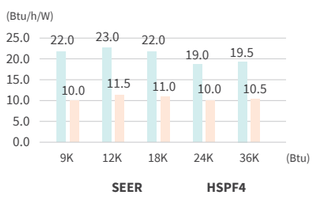
One way to reduce operating costs is to eliminate unnecessary energy consumption, which is crucial in maximizing sustainability. To avoid wasting energy and cost when running air conditioners, in accordance with our strict quality standards, we have dedicated ourselves to make sure our air conditioners run smoothly and efficiently without interruptions.

EFFICIENCY RATIO

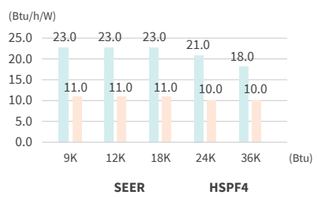
Ducted unit



Cassette unit



Wall-Mount unit

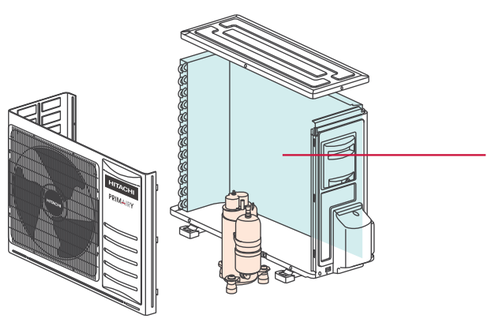


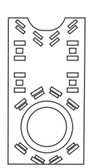
HIGH-EFFICIENCY TWIN ROTARY INVERTER COMPRESSOR

1. Room temperatures are much more precise with PRIMAIRY which maintains indoor temperatures within 1°F of set temperature.
2. Set temperature can be reached quickly.
3. Inverters minimize energy consumption by maximizing part-load efficiencies.
4. Synchronizing the cooling and heating conditions with system capability generates high system performance.
5. Our air tunnel design was specially formulated utilizing advanced control technology. Hitachi's new inverter air conditioners are remarkably quiet under the super quiet mode.

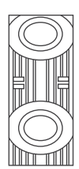
HIGH EFFICIENCY FIN

The fins are an integral component of the unit that transfers and radiates heat. With our newly refined design, the fins facilitate improved heat exchange and contribute to greater efficiency, making it an energy-effective choice.

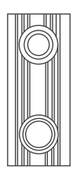




High Φ7 louver



High Φ7 louver



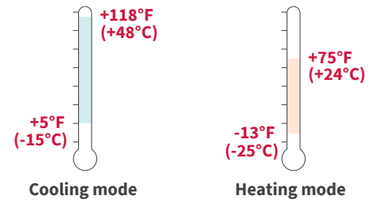
High Φ7.94 louver

WIDE AMBIENT TEMPERATURE RANGE

No matter how harsh the outdoor temperature is, PRIMAIRY units are able to operate at temperatures that range all the way from -13°F* (in heating mode) up to 118°F (in cooling mode). This provides high heating and cooling performance in a wide ambient temperature range.

The special crankcase heating belt provides the required temperature on the bottom of the compressor, prolonging the compressor life, and assuring successful starts at low temperatures.

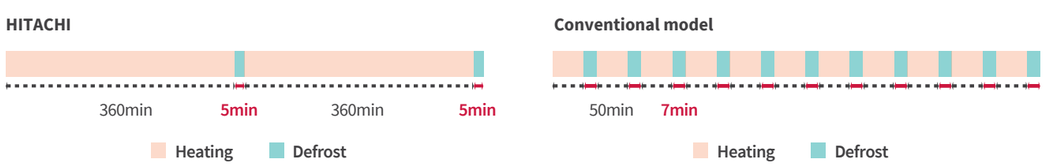
* For specific models



INTELLIGENT DEFROST CONTROL

Our PRIMAIRY series comes with innovative features that help you stay comfortable longer by shortening the defrost time by about 30% and delaying the defrosting interval up to 6 hours*. This translates into consistent, dependable comfort at your pleasure.

* Base on AHRI H2V test condition

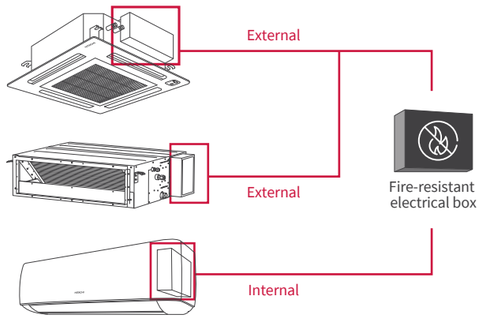


RELIABILITY

Peace of mind comes when you no longer have to think about it. Hitachi's PRIMAIRY units are self-diagnosing when it comes to components that could malfunction due to unforeseen circumstances.
We have installed failsafe features in key areas that help protect the unit from damage or failure. These features reduce maintenance costs, ensure consistent performance, and extend the life of your unit.

SAFETY PROTECTION

A fully enclosed metal box ensures product safety and most importantly the PC board.

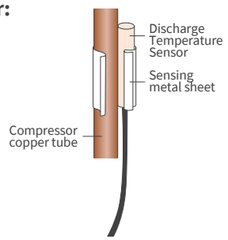


OTHER SAFEGUARDS

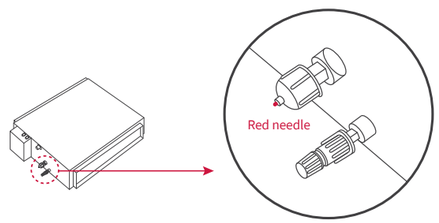
1. Fan motor overheating protection:
Sensors safeguard the unit from overheating, which helps preserve the motor.

2. Compressor overheating protection:
To keep the compressor working within a safe range, the compressor includes a dual protection system, consisting of an exhaust temperature sensor and an overheat protection switch.

3. Discharge temperature sensor:
Ensures the compressor will operate in the safety range and prevent damages caused by overheating from refrigerant leakage.



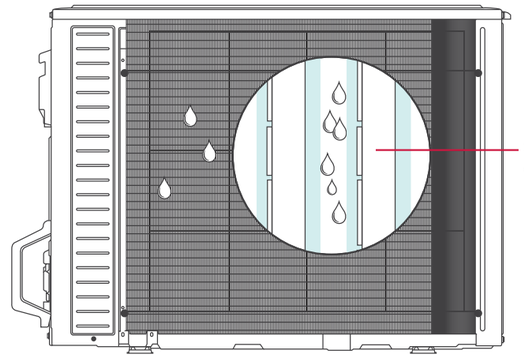
4. Indoor unit visual pressure gauge:
A visual pressure gauge is fitted to the evaporator to identify there are no leaks inside. A quick look is all it takes. The red needle indicates that the pressure is sufficient and there is no leak.



HYDROPHILIC COATING

A hydrophilic aluminum fin enhances heat-exchanging performance by increasing water movement on fin surface and preventing blockages between fins. Any condensation or moisture build-up leads to more accumulated dust and bacterial growth.
A special, anti-corrosion blue coating enhances protection from environmental and microbiological factors, increasing reliability and ensuring uniform performance.

With hydrophilic coating



The coating prevents water droplets collecting on the fins and attracting dirt.

REFRIGERANT LEAKAGE DETECTION FOR DUCTED & CASSETTE

The indoor unit will stop operating automatically and show an error code when refrigerant charging amount drops below 30%. This protects the compressor from being damaged by high temperatures due to refrigerant leakage.
When the refrigerant charging amount is between 30-80%, the unit will identify and self-correct if necessary.
This feature also increases heat transfer efficiency and unit safety.

UNIVERSAL OUTDOOR UNIT FOR DUCTED & CASSETTE INDOOR UNITS

We understand the availability of products is crucial to business owners.
That's why PRIMAIR outdoor units can be used with either ducted or cassette indoor units of the same capacity, simplifying inventory management.

DOUBLE CONTROL BOARDS

In order to prevent any interruption in your business due to the AC unit, we have taken several steps to prevent damage. Both indoor and outdoor units have two control boards, and the outdoor unit has added coil sensors to ensure proper operation (especially during defrosting and discharge protection).

This not only helps to monitor the defrosting effect in real-time but also helps reduce repair costs if the PC board needs to be replaced.

Indoor control board

Outdoor control board

DESIGN FLEXIBILITY

EASIER HANDLING OUTDOOR UNITS

Moving large objects is no easy feat. Flexibility is built into the PRIMAIRY system with multiple outdoor unit options available. Each is modular and easy to install in a variety of settings.

COMBINATION OF MODULES

Your space is very valuable, so we offer four different options for various dimensions and power to better suit your needs.

RAS-1.0 PNNBDH1
RAS-1.5 PNNBDH1

Dimension (W×H×D)	Model Size
37-1/4×16-1/2in 810×580×280mm	9K-12K

RAS-2.0 PNNBDH1

Dimension (W×H×D)	Model Size
33-7/8×26-3/8×12-1/4in 860×670×310mm	18K

RAS-3.0 PNNBDH1

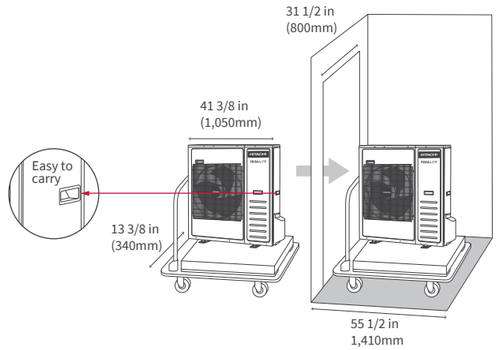
Dimension (W×H×D)	Model Size
37-3/8×33-1/8×13-3/8in 950×840×340mm	24K

RAS-4.0 PNNBDH1

Dimension (W×H×D)	Model Size
37-3/8×41-3/8×13-3/8in 950×1050×340mm	36K

COMPACT AND LIGHT

Built with sturdy, lightweight components, outdoor units are easy to transport.



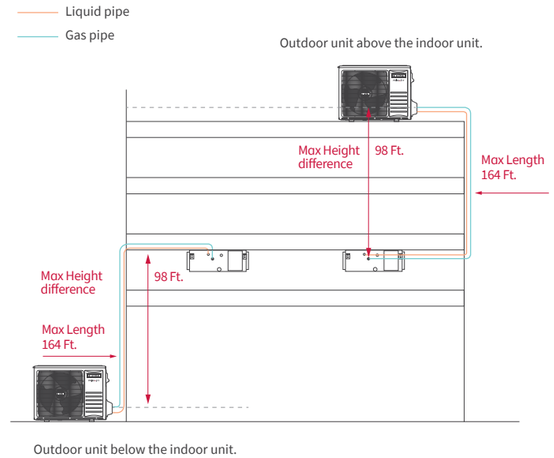
Units can be transported in an elevator by pallet jack.

MORE FLEXIBLE PIPING

Specific applications may require short or long piping to obtain proper placement of indoor units for optimal air distribution. Hitachi PRIMAIRY systems can accommodate both.

Long piping and large height difference
Accommodating up to 164ft (50m) of piping run and 98ft (30m) in height, this offers a great deal of flexibility in terms of installation.

Piping	Model	9K	12K	18K	24K	36K
Diameter (Liquid)	in (mm)	1/4 (Φ6.35)	1/4 (Φ6.35)	1/4 (Φ6.35)	3/8 (Φ9.52)	3/8 (Φ9.52)
Diameter (Gas)	in (mm)	3/8 (Φ9.52)	3/8 (Φ9.52)	1/2 (Φ12.7)	5/8 (Φ15.88)	3/4 (Φ19.05)
Max Length	Ft. (m)	82 (25)	82 (25)	98 (30)	164 (50)	164 (50)
Max Height	Ft. (m)	49 (15)	49 (15)	49 (15)	98 (30)	98 (30)



LOW AMBIENT COOLING

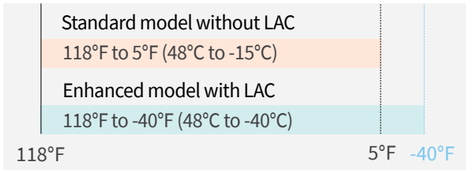
Performance you can count on even when the mercury falls

Certain critical environments require cooling even when it's cold outside. For these applications, you need a system that performs reliably even in the coldest temperatures.

The PRIMAIRY Heat Pump with Low Ambient Cooling option provides continuous cooling operation down to -40°F ambient temperature while maintaining nominal capacity (no de rate).*

The outdoor unit is compatible with all PRIMAIRY Inverter Series indoor units of equal capacity and can be connected to a building management system for maximum design freedom and control.

Low Ambient Cooling (LAC) operation range



Low Ambient Cooling

The PRIMAIRY Heat Pump with Low Ambient Cooling is perfect for:

- Data rooms
- Telecom equipment rooms
- Elevator equipment
- Electrical equipment rooms

PRIMAIRY P300 Low Ambient Cooling Summary

ODU Model	IDU Model	IDU Type	Nominal Capacity (Btus/hr)	Voltage	Low Ambient Kit	Heating Operation Range °F (°C)	Cooling Operation Range °F (°C)
RAS-1.0PNNBDH1 w/LAC	RPK-1.0PNN1DH RPIL-1.0PNN1DH	Wall-Mount Ducted	9000	208/230	Wind Baffle-Field Installed Thermostat Compressor Crank Case Heater (Existing) Accumulator Heater Additional Insulation Overcurrent Protection Single Point Power	-15 - 75 (-26 - 24)	-40 - 118 (-40 - 48)
RAS-1.5PNNBDH1 w/LAC	RPK-1.5PNN1DH RPIL-1.5PNN1DH	Wall-Mount Ducted	12000				
RAS-2.0PNNBDH1 w/LAC	RPK-2.0PNN1DH RCI-2.0PNN1DH RPIL-2.0PNN1DH	Wall-Mount Ducted	18000				
RAS-3.0PNNBDH1 w/LAC	RPK-3.0PNN1DH RCI-3.0PNN1DH RPIL-3.0PNN1DH	Wall-Mount Ducted	24000				
RAS-4.0PNNBDH1 w/LAC	RPK-4.0PNN1DH RCI-4.0PNN1DH RPIL-4.0PNN1DH	Wall-Mount Ducted	36000				

* Unit was tested and rated under continuous operation at high sensible load conditions and elevated return air temperatures typical of mechanical cooling applications such as data and telecom rooms.

Indoor Life

Hitachi PRIMAIRY indoor units contribute to a sense of well-being by making indoor life more comfortable. Units are unobtrusive, reliable, and ultra-efficient, creating a comfortable environment that enables you to stay on track and get things done.

LINE-UP OVERVIEW

Indoor Unit Category

	Model (Size)	9K	12K	18K	24K	36K
Wall-Mount unit		✓ * Energy star	✓ * Energy star			
				✓ * Energy star	✓	
						✓
Cassette unit		✓ * Energy star	✓ * Energy star			
				✓ * Energy star	✓ * Energy star	
						✓
Ducted unit		✓ * Energy star	✓ * Energy star			
				✓		
					✓	
						✓

* Energy star

ENERGY STAR PARTNER

FREEDOM OF CHOICE

Which unit or units should you choose?
In our PRIMAIRY series, there are three main units:
Ducted, Cassette and Wall-Mount
See which options are best suited for your application.

Cassette

Cassettes have the advantage of providing more consistent temperatures when used in larger, more open space such as offices or commercial spaces. This is because they provide greater coverage while improving airflow.

HCRB31NEGH
(Standard)

HCWA21NEHH
(Optional)

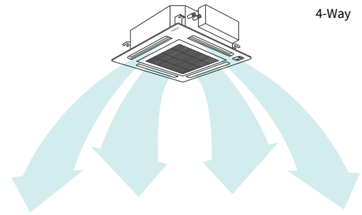
Incorporating cassettes into a standard ceiling grid will allow you to easily place light panels and other overhead lighting fixtures in narrow ceiling cavities or high ceilings. The cassette unit remains unobtrusive and out of the way.

FEATURES & BENEFITS

COMFORT

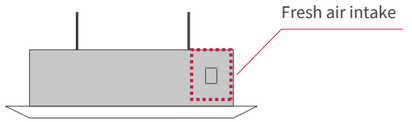
Control airflow with 4-way louvers

Louvers are adjustable for horizontal or vertical airflow. Smooth airflow can be directed towards every corner of the room - or even a particular area for precise comfort.



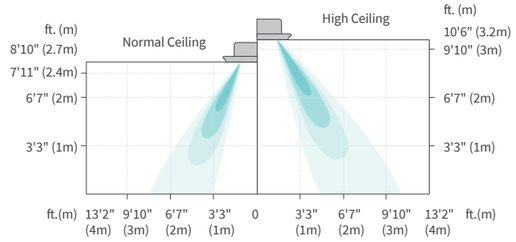
Fresh air inlet

The fresh air function can bring outside air in, helping to maintain indoor air quality.



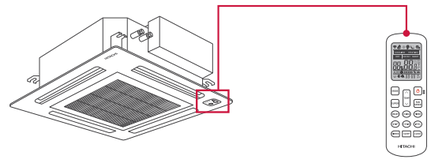
Temperature compensation

A wired control ensures the cassette maintains accurate temperature control.



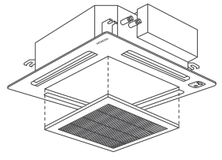
Temperature Sensor on Remote Controller

It allows the unit to provide better comfort by tracking the temperature around the remote controller.



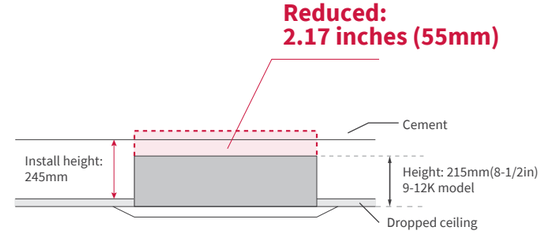
Washable Filter

A washable filter allows for cost-saving maintenance.



Compact Design

New capacity 9K & 12K reduce the height from 10.63 inches (270mm) to 8.46 inches (215mm). The installed height is 9.65 inches (245mm) with panel.



Ducted

Quiet, long-lasting ducted systems provide uniform heating and cooling throughout your indoor space, significantly reducing energy consumption. They also provide superior air circulation which is especially beneficial for anyone with allergies or asthma.

HCWA21NEHH
(Standard)

HCRB31NEGH
(Optional)

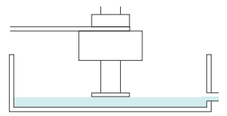
The compact design makes the ducted unit particularly discreet, allowing it to be placed in confined spaces.

FEATURES & BENEFITS

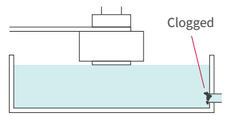
COMFORT

Durable Protection Drainage System

This specially designed drain pan makes condensate flow smoothly without leaking, preventing rust. When the drainpipe is clogged and water rises to a pre-determined level, the water level switch will float and send a signal to turn off the unit, indicating the need for maintenance.



Indoor unit is running.



Indoor unit is turned off.

Built-in drain pan

Compared with an external drain pan design, the new built-in drain pan can reduce dust adhesion and avoid water leakage.

Built-in drain pan VS. Exposed drain pan

Built to last

Galvanized steel is used for durability, strength, and anti-corrosive properties.

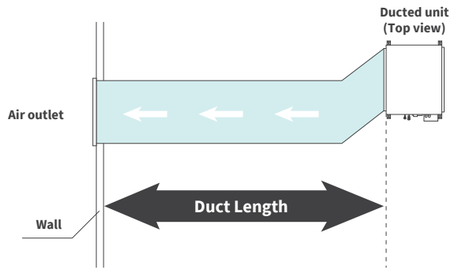
DESIGN FLEXIBILITY

Wide ESP range

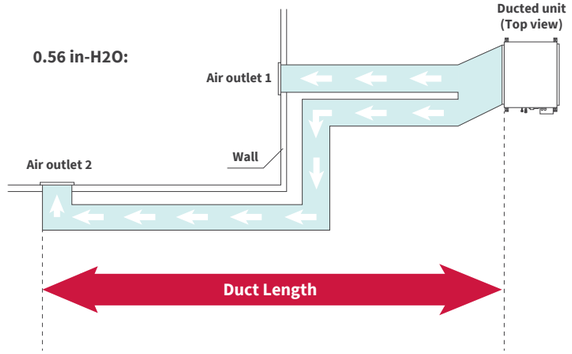
A wide ESP range means PRIMAIRY is suitable for spaces with many discrete areas, including corners and recesses. Multiple outlets can be connected to the ducted unit to ensure uniform air delivery even around tight spaces. This system is easy to assemble quickly and accurately.

For example:

0.1 in-H2O:

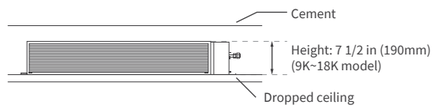


0.56 in-H2O:



Compact design

Minimum space is required between the cement and dropped ceiling, allowing for a higher ceiling.



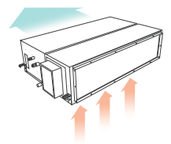
Fresh air inlet (9K-18K)

The fresh air function brings outside air in, keeping indoor air fresh and rooms well-ventilated.

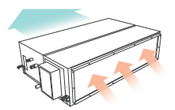
Flexible air return from bottom or rear

Two air intake options provide installation flexibility.

Note: The noise of the bottom air intake is 5dB higher than the back air intake - so we recommend installing the back air intake when possible.



Bottom air intake



Rear air intake

Wall-Mount

Wall-Mount unit achieves better airflow distribution and significant airflow increase without increasing sound level and power consumption. Simply press “SMART”, your AC will automatically adjust to the most comfortable temperature.

HCWA21NEHH
(Standard)

HCWA21NEHH
(Optional)

Wall-Mount unit offers a ductless cooling and heating solution that is flexible, energy efficient, self-cleaning, and that provides optimal comfort.

FEATURES & BENEFITS

COMFORT & INTELLIGENCE

Smart Mode
Press the SMART button, the AC enter fuzzy logic operation directly, regardless of the unit is on or off. Temperature and fan speed are automatically set based on the actual room temperature.


Below 73°F
Fan Mode


73°F ~ 79°F
Dry Mode


Over 79°F
Cooling Mode

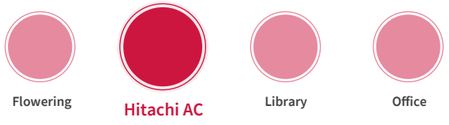
I Feel
The remote control is equipped with a temperature sensor to feel 1m with in the surrounding temperature, and every 3 Minutes automatically transmits the information to the indoor unit, which operates and adjusts according to the perceived temperature to achieve intelligent temperature.

By pressing the "I Feel" button to achieve intelligent temperature control and best room conditions.

Non- I feel Mode

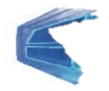
I feel Mode

Comfortable Quiet
Adopting advanced control technology and high-quality silent motor, by optimizing the air duct, the IDU achieves better airflow distribution and significant airflow increase without increasing sound level and power consumption. You may even achieve ultra-low noise level in quiet mode for some models.




Indoor DC Motor
One-piece plastic-sealed motor with good sealing performance and low noise.


Unequal Cross Flow Fan
Effectively reduce airflow resonance.


Silent Air Duct Design
Gradual volutes improve wind resistance and keep airflow stable.
Large radian snails achieve large air volume and low noise.

Fast Cooling
Through rapid inverter startup technology, compressor can reach the highest frequency in a short time and achieve fast cooling.

DESIGN FLEXIBILITY

Better Air Flow Design
Different beginning flap angle for cooling to prevent direct contact with cold air for heating to warm your feet directly.

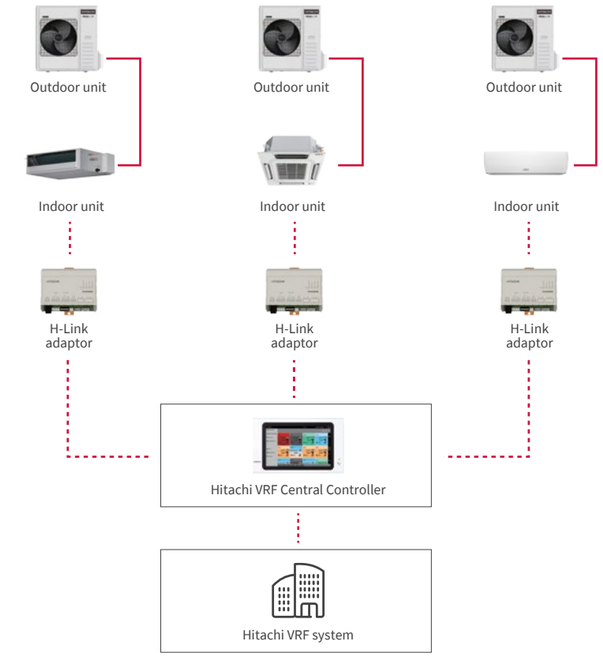

Vertical
Auto Swing Louver


Horizontal
Auto Swing Louver

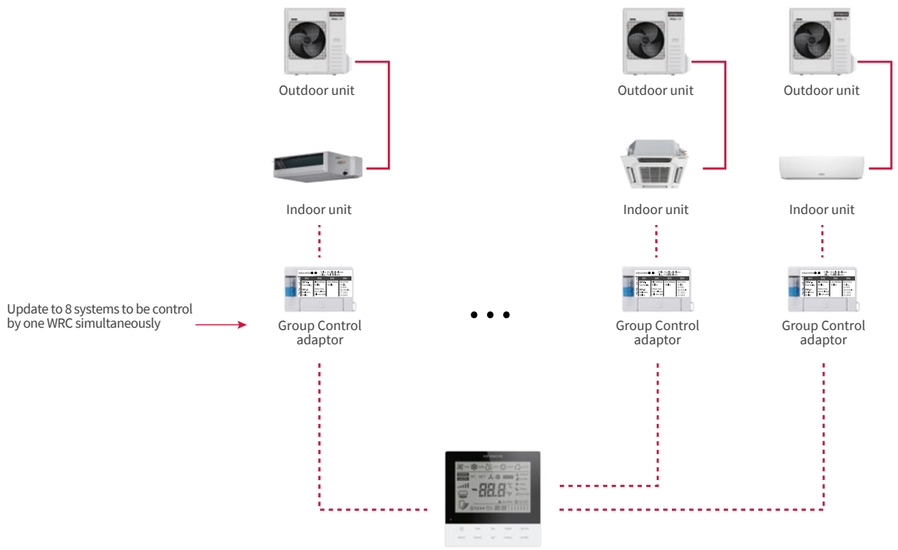
Controls

Customize your comfort with wall-mounted or handheld controls. With easy-to-read and intuitive interfaces, you'll find it's fast and simple to make your environment your own.

CENTRAL CONTROL FOR ALL PRODUCTS LINES



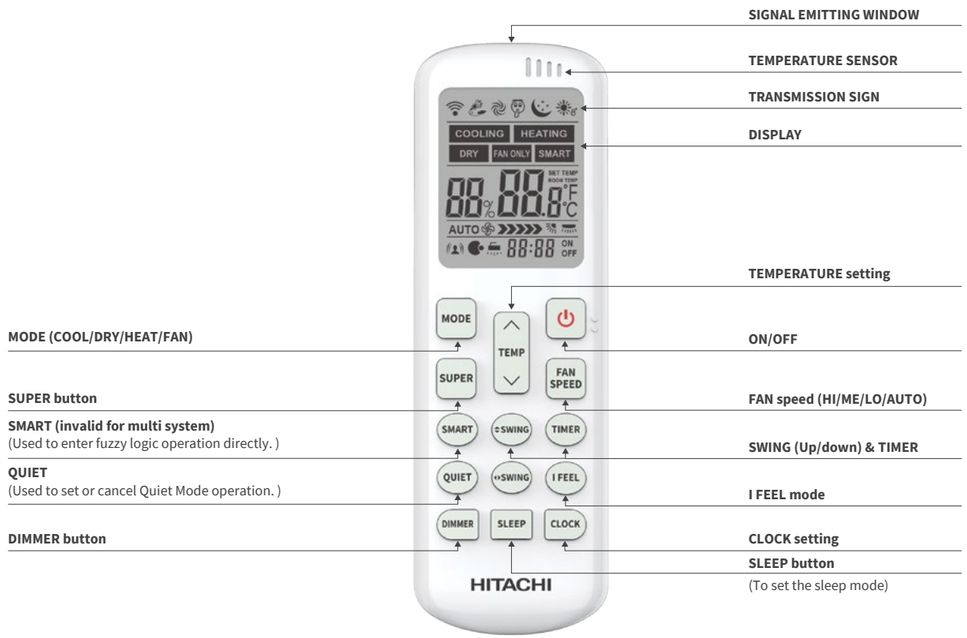
GROUP CONTROL FOR ALL PRODUCTS LINES



REMOTE CONTROL

The remote control is practical and intuitive in design with a simple button layout that allows you to control your unit instantly. The classic LCD matches the wired control point with each working feature represented in one frame. The remote operates on a single battery, using minimal power for long-lasting use.

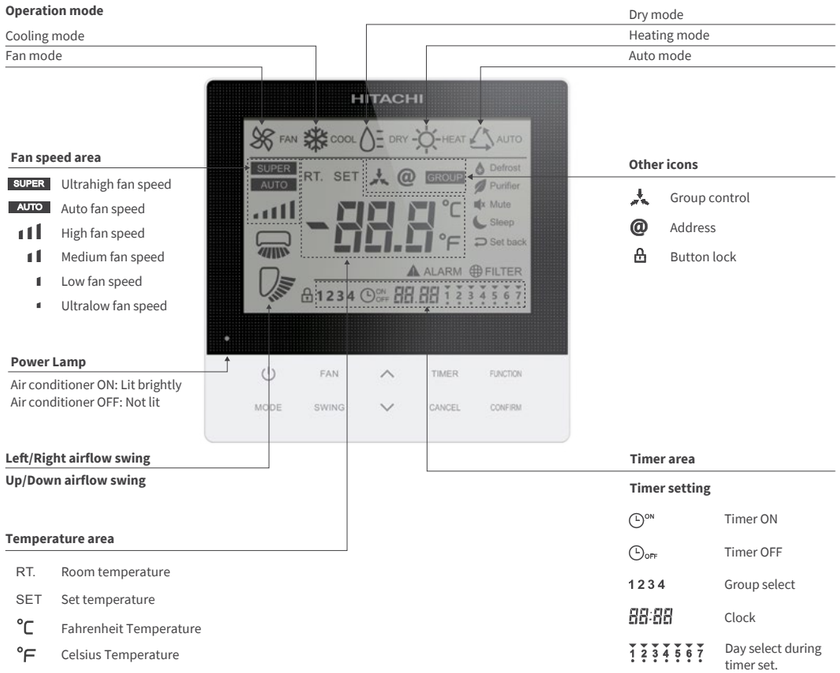
HCRB31NEGH



WIRED CONTROL

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 hub with your PRIMAIRY system. Selecting different modes is simple — even from the very first use, ensuring you can achieve and maintain your ideal work and living space.

HCWA21NEHH



Specifications

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

SPECIFICATIONS

WALL-MOUNT

IDU			RPK-1.0PNN1DH	RPK-1.5PNN1DH	RPK-2.0PNN1DH	RPK-3.0PNN1DH	RPK-4.0PNN1DH
ODU			RAS-1.0PNNBDH1	RAS-1.5PNNBDH1	RAS-2.0PNNBDH1	RAS-3.0PNNBDH1	RAS-4.0PNNBDH1
ENERGY STAR® Certified		V/Ph/Hz	Yes	Yes	Yes	No	No
Cooling	Capacity Range (MIN-MAX)	Btu/h	3,600~11,500	4,000~14,500	6,500~19,500	8,000~25,000	12,000~38,000
	Capacity Rated (Rated)	Btu/h	9,000	12,000	18,000	23,400	36,000
	Power Input	W	643	916	1,374	1,879	3,428
	Current	A	3.30	4.16	6.24	8.54	14.90
	EER	Btu/h/W	14.00	13.10	13.10	12.45	10.50
	SEER	Btu/h/W	23.0	23.0	23.0	21.0	18.0
Heating	Capacity Range (MIN-MAX)	Btu/h	3,600~13,000	4,000~14,000	6,500~20,000	8,000~26,500	12,000~38,000
	Capacity (47°F)	Btu/h	9,200	12,000	18,500	25,800	36,000
	Input	W	657	1,099	1,427	2,600	3,500
	Current	A	3.4	5.0	7.2	11.8	15.2
	COP	W/W	3.96	3.24	3.8	2.96	3.00
	HSPF4	Btu/h/W	11.0	11.0	11.0	10.0	10.0
	Capacity Rated at 17°F	Btu/h	5,500	7,300	11,000	16,400	26,000
	Capacity Ratio 17°F/47°F		60%	61%	59%	64%	72%
Indoor Air Flow Rated (Ultrahigh/Hi/Med/Lo)		CFM(m^3/h)	341/294/247 (580/500/420)	364/312/253 (620/530/430)	588/482/382 (1,000/820/650)	647/559/441 (1,100/950/750)	1,058/942/882 (1,800/1,600/1,350)
Indoor Noise Level (Sound Pressure Hi/Med/Lo)		dB(A)	42/32/26	42/32/26	48/41/34	50/42/38	52/46/41
Indoor Fan Motor	Qty		1	1	1	1	1
	Speed (Hi/Med/Lo)	r/min	1,100/940/800	1,150/990/800	1,100/960/800	1,200/1,040/880	1,154/1,000/851
Indoor Unit	Dimension (W×H×D)	in(mm)	36-3/4×10-5/8×8-1/164 (934×270×210)	36-3/4×10-5/8×8-1/164 (934×270×210)	47-3/4×12-7/16×9-5/16 (1,213×315×238)	47-3/4×12-7/16×9-5/16 (1,213×315×238)	54-3/8×14-7/8×11-1/2 (1,380×378×295)
	Packing (LxWxH)	in(mm)	39-3/8×13-3/16×10-1/4 (1,000×335×260)	39-3/8×13-3/16×10-1/4 (1,000×335×260)	50-3/4×15-7/16×15-1/2 (1,290×392×318)	50-3/4×15-7/16×15-1/2 (1,290×392×318)	58-6/8×18-7/8×16-1/8 (1,495×480×410)
	Net Weight	lbs (kg)	19.9 (9.0)	19.9 (9.0)	32.0 (14.5)	32.0 (14.5)	51.9 (23.5)
	Shipping Weight	lbs (kg)	24.3 (11)	24.3 (11)	37.5 (17)	37.5 (17)	61.8 (28)
Remote Control Adjustable Temperature Range		°F (°C)	61~86 (16~30)	61~86 (16~30)	61~86 (16~30)	61~86 (16~30)	61~86 (16~30)
Outdoor Air Flow		CFM(m^3/h)	1,353 (2,300)	1,353 (2,300)	1,853 (3,150)	2,235 (3,800)	3,412 (5,800)
Outdoor Noise Level (Sound Pressure)		dB(A)	52	52	55	55	61
Outdoor fan motor	Qty		1	1	1	1	1
	Speed(Hi)	r/min	850	880	880	830	850
Compressor	Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Oil Type		ESTER OIL VG74	ESTER OIL VG74	ESTER OIL VG74	VG74	PQE VG74
	Oil Charge	oz. (ml)	12.5 (370)	12.5 (370)	16.9 (500)	22.7 (670)	33.8 (1,000)
Outdoor Unit	Dimension (W×H×D)	in (mm)	31-7/8×22-7/8×11 (810×580×280)	31-7/8×22-7/8×11 (810×580×280)	33-7/8×26-3/8×12-1/4 (860×670×310)	37-3/8×33-1/8×13-3/8 (950×840×340)	37-3/8×41-3/8×13-3/8 (950×1,050×340)
	Packing (W×H×D)	in (mm)	37×25-1/4×16-1/2 (940×640×420)	37×25-1/4×16-1/2 (940×640×420)	39×28-3/4×17-3/4 (990×730×450)	43-3/4×36-1/4×18-1/8 (1,110×920×460)	43-3/4×47-1/4×18-1/8 (1,110×1,200×460)
	Net Weight	lbs (kg)	75 (34)	79 (36)	106 (48)	155 (71)	192 (87)
	Shipping Weight	lbs (kg)	84 (38)	88 (40)	115 (52)	166 (76)	218 (99)
Drainage Water Pipe Diameter		in (mm)	1-1/4 (dΦ32)	1-1/4 (dΦ32)	1-1/4 (dΦ32)	1-1/4 (dΦ32)	1-1/4 (Φ32)
Throttle Type			EEV	EEV	EEV	EEV	EEV
Electrical	Power Supply (To outdoor unit)	V/ph/Hz	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
	MIN. AMPACITY	A	7.3	12	15	23	25
	MAX. TD FUSE/ BREAKER	A	15	20	20	35	45
	Power & Communication Cable	No.x AWG	3×12/4×16	3×14/4×16	3×12/4×16	3×12/4×16	3×10/4×16
Refrigerant Piping	Liquid Line OD	in (mm)	1/4 (Φ6.35)	1/4 (Φ6.35)	1/4 (Φ6.35)	3/8 (Φ9.52)	3/8 (Φ9.52)
	Vapor Line OD	in (mm)	3/8 (Φ9.52)	3/8 (Φ9.52)	1/2' (Φ12.7)	5/8' (Φ15.88)	3/4' (Φ19.05)
	Max. Length	Ft. (m)	82 (25)	82 (25)	98 (30)	164 (50)	164 (50)
	Max. Difference in Level	Ft. (m)	49 (15)	49 (15)	49 (15)	98 (30)	98 (30)
Refrigerant	Type		R-410A	R-410A	R-410A	R-410A	R-410A
	Refrigerant Charge	oz. (kg)	33.5 (0.95)	45.9 (1.3)	56.44 (1.6)	91.7 (2.6)	111.2 (3.15)
	Additional Charge for Each Ft.	oz.	1.23	1.23	1.23	1.23	1.23
Design Pressure	H/L	PSIG (Mpa)	550/240 (3.8/1.6)	550/240 (3.8/1.6)	550/240 (3.8/1.6)	550/240 (3.8/1.6)	550/240 (3.8/1.6)
Working Ambient Range	Cooling	°F (°C)	5~118 (-15~48)	5~118 (-15~48)	5~118 (-15~48)	5~118 (-15~48)	5~118 (-15~48)
	Heating	°F (°C)	-4~75 (-20~24)	-4~75 (-20~24)	-4~75 (-20~24)	-13~75 (-25~24)	-4~75 (-20~24)
Containerization	Indoor Unit (Qty'per 20' /40' /40'HQ)	Set	358/763/836	358/763/836	187/384/440	187/384/440	140/280/340
	Outdoor Unit (Qty'per 20' /40' /40'HQ)	Set	102/204/272	102/204/272	90/186/186	52/106/106	26/53/106

SPECIFICATIONS

CASSETTE

IU			RCIM-1.0PNN1DH	RCIM-1.5PNN1DH	RCI-2.0PNN1DH	RCI-3.0PNN1DH	RCI-4.0PNN1DH
OU			RAS-1.0PNNBDH1	RAS-1.5PNNBDH1	RAS-2.0PNNBDH1	RAS-3.0PNNBDH1	RAS-4.0PNNBDH1
ENERGY STAR® Certified		V/Ph/Hz	Yes	Yes	Yes	Yes	No
Cooling *1	Capacity Rated (AHRI)	Btu/h	9,000	12,000	18,000	24,000	36,000
	Capacity Range (MIN-MAX)	Btu/h	4,900~11,500	5,850~13,000	4,250~21,000	8,650~25,100	12,650~36,700
	Power Input	W	700	960	1,420	1,920	3,380
	Current	A	3.6	4.3	6.5	8.6	14.6
	EER	Btu/h/W	12.86	12.50	12.68	12.50	10.65
	SEER	Btu/h/W	22.0	23.0	22.0	19.0	19.5
Heating *2	Capacity Rated at 47°F(AHRI)	Btu/h	10,000	12,000	19,000	24,000	36,000
	Capacity Range (MIN-MAX)	Btu/h	4,400~12,200	4,450~14,300	5,650~24,000	7,650~28,300	15,100~42,500
	Power Input	W	709	926	1,425	1,950	3,190
	Current	A	3.5	4.1	6.3	8.7	14
	COP	W/W	4.13	3.80	3.91	3.61	3.31
	HSPF4	Btu/h/W	10.0	11.5	11.0	10.0	10.5
	Capacity Rated at 17°F(AHRI)	Btu/h	6,000	7,000	11,000	19,600	27,200
	Capacity at 17°F(Max)	Btu/h	7,640	9,424	18,000	23,500	33,971
	Capacity at 5°F(Max)	Btu/h	7,500	9,000	14,750	21,060	29,101
Indoor Air Flow Rated(Hi/Med/Lo)		CFM(m^3/h)	309/274/232 (520/460/390)	324/294/235 (550/500/400)	588/500/394 (1,000/850/670)	647/530/400 (1,100/900/680)	941/794/676 (1,600/1,350/1,150)
Indoor Sound Pressure Level (Hi/Med/Lo)		dB(A)	38/34/31	42/37/33	38/36/34	44/40/38	49/43/39
Indoor Fan Motor	Qty		1	1	1	1	1
	Speed (Hi/Med/Lo)	r/min	600/500/400	690/600/500	400/320/260	600/480/390	630/600/570
Indoor Unit	Dimension (W×H×D)	in(mm)	22-1/2×8-1/2×22-1/2 (570×215×570)	22-1/2×8-1/2×22-1/2 (570×215×570)	33-1/8×9-3/4×33-1/8 (840×248×840)	33-1/8×9-3/4×33-1/8 (840×248×840)	33-1/8×11-3/4×33-1/8 (840×298×840)
	Packing (LxWxH)	in(mm)	28-3/4×26-1/4×11-1/2 (730×668×292)	28-3/4×26-1/4×11-1/2 (730×668×292)	39-1/4×37-5/8×14-5/8 (996×956×370)	39-1/4×37-5/8×14-5/8 (996×956×370)	39-1/4×37-5/8×16-1/2 (996×956×420)
	Net Weight	lbs (kg)	32 (14.5)	34 (15.5)	56 (25)	59.5(27)	70.5 (32)
	Gross Weight	lbs (kg)	38.5 (17.5)	40.5 (18.5)	76 (34)	79.5 (36)	90.5 (41)
Indoor Panel	Dimension (W×H×D)	in(mm)	24-3/8×1-5/8×24-3/8 (620×40×620)	24-3/8×1-5/8×24-3/8 (620×40×620)	37-3/8×1-3/4×37-3/8 (950×45×950)	37-3/8×1-3/4×37-3/8 (950×45×950)	37-3/8×1-3/4×37-3/8 (950×45×950)
	Packing (LxWxH)	in(mm)	27-1/8×26-3/4×4-1/2 (690×680×115)	27-1/8×26-3/4×4-1/2 (690×680×115)	40-3/8×40×4-3/4 (1,025×1,015×120)	40-3/8×40×4-3/4 (1025×1015×120)	40-3/8×40× 4-3/4 (1025×1015×120)
	Net Weight	lbs (kg)	5.7 (2.6)	5.7 (2.6)	14.3 (6.5)	14.3 (6.5)	14.3 (6.5)
	Gross Weight	lbs (kg)	9.9 (4.5)	9.9 (4.5)	20.9 (9.5)	20.9 (9.5)	20.9 (9.5)
Controller Adjustable Temperature Range		°F (°C)	61~86 (16~30)	61~86 (16~30)	61~86 (16~30)	61~86 (16~30)	61~86 (16~30)
Outdoor Air Flow Rated(Hi/Med/Lo)		CFM(m^3/h)	1,355 (2,300)	1,355 (2,300)	1,853 (3,150)	2,235 (3,800)	3,416 (5,800)
Outdoor Sound Pressure Level		dB(A)	52	52	55	55	61
Outdoor fan motor	Qty		1	1	1	1	1
	Speed(Hi)	r/min	850	880	880	830	850
Compressor	Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Oil Type		ESTER OIL VG74	ESTER OIL VG74	ESTER OIL VG74	VG74	PQE VG74
	Oil Charge	oz. (ml)	12.5 (370)	12.5 (370)	16.9 (500)	22.7 (670)	33.8 (1,000)
Outdoor Unit	Dimension (W×H×D)	in (mm)	31-7/8×22-7/8×11 (810×580×280)	31-7/8×22-7/8×11 (810×580×280)	33-7/8×26-3/8×12-1/4 (860×670×310)	37-3/8×33-1/8×13-3/8 (950×840×340)	37-3/8×41-3/8×13-3/8 (950×1,050×340)
	Packing (W×H×D)	in (mm)	37×25-1/4×16-1/2 (940×640×420)	37×25-1/4×16-1/2 (940×640×420)	39×28-3/4×17-3/4 (990×730×450)	43-3/4×36-1/4×18-1/8 (1,110×920×460)	43-3/4×47-1/4×18-1/8 (1,110×1,200×460)
	Net Weight	lbs (kg)	75 (34)	79 (36)	106 (48)	155 (70.5)	192 (87)
	Gross Weight	lbs (kg)	84 (38)	88 (40)	115 (52)	166 (75.5)	215 (97)
Drainage Water Pipe Diameter		in (mm)	1-1/4 (Φ32)	1-1/4 (Φ32)	1-1/4 (Φ32)	1-1/4 (Φ32)	1-1/4 (Φ32)
Throttle Type			EEV	EEV	EEV	EEV	EEV
Electrical	Power Supply (To outdoor unit)	V/ph/Hz	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
	MIN. AMPACITY	A	7.3	12	15	23	25
	MAX. TD FUSE/ BREAKER	A	15	20	20	35	45
	Cable between IDU & ODU	No.x AWG	3×12/4×16	3×14/4×16	3×12/4×16	3×12/4×16	3×10/4×16
Refrigerant Piping	Liquid Line OD	in (mm)	1/4 (Φ6.35)	1/4 (Φ6.35)	1/4 (Φ6.35)	3/8 (Φ9.52)	3/8 (Φ9.52)
	Gas Line OD	in (mm)	3/8 (Φ9.52)	3/8 (Φ9.52)	1/2' (Φ12.7)	5/8' (Φ15.88)	3/4' (Φ19.05)
	Max. Length	Ft. (m)	82 (25)	82 (25)	98 (30)	164 (50)	164 (50)
	Max. Height	Ft. (m)	49 (15)	49 (15)	49 (15)	98 (30)	98 (30)
Refrigerant	Type		R-410A	R-410A	R-410A	R-410A	R-410A
	PreCharge(for 25Ft. Pipe)	oz. (kg)	33.5 (0.95)	45.9 (1.3)	56.44 (1.6)	91.7 (2.6)	111.2 (3.15)
	Additional Charge for Each Ft.	oz.	1.23	1.23	1.23	1.23	1.23
Design Pressure	H/L	PSIG (Mpa)	550/240 (3.8/1.6)	550/240 (3.8/1.6)	550/240 (3.8/1.6)	550/240 (3.8/1.6)	550/240 (3.8/1.6)
Working Ambient Range *3	Cooling	°F (°C)	5~118 (-15~48)	5~118 (-15~48)	5~118 (-15~48)	5~118 (-15~48)	5~118 (-15~48)
	Heating	°F (°C)	-4~75 (-20~24)	-4~75 (-20~24)	-4~75 (-20~24)	-13~75 (-25~24)	-4~75 (-20~24)

*1 *2 AHRI Rated Condition Based on Limited Compressor Speed.
*1 Cooling (Indoor // Outdoor) 80°F DB, 67°F WB // 95°F DB, 75°F WB
*2 Heating at 47°F (Indoor // Outdoor) 70°F DB, 60°F WB // 47°F DB, 43°F WB
Heating at 17°F (Indoor // Outdoor) 70°F DB, 60°F WB // 17°F DB, 15°F WB
Heating at 5°F (Indoor // Outdoor) 70°F DB, 60°F WB // 5°F DB, 4°F WB
*3 Standard Unit Without Additional Low Ambient Kits

SPECIFICATIONS

DUCTED

IU			RPIL-1.0PNN1DH	RPIL-1.5PNN1DH	RPIL-2.0PNN1DH	RPIM-3.0PNN1DH	RPIM-4.0PNN1DH
OU			RAS-1.0PNNBDH1	RAS-1.5PNNBDH1	RAS-2.0PNNBDH1	RAS-3.0PNNBDH1	RAS-4.0PNNBDH1
ENERGY STAR® Certified		V/Ph/Hz	Yes	No	No	No	No
Cooling *1	Capacity Rated (AHRI)	Btu/h	9,000	12,000	18,000	24,000	36,000
	Capacity Range (MIN-MAX)	Btu/h	4,900~11,500	5,850~13,000	4,200~21,000	8,600~27,000	12,550~37,200
	Power Input	W	750	1,091	1,670	2,290	3,300
	Current	A	3.7	4.8	7.6	10.3	14.35
	EER	Btu/h/W	12.00	11.00	10.78	10.48	10.91
	SEER	Btu/h/W	20.0	19.5	19.5	18.0	18.0
Heating *2	Capacity Rated at 47°F(AHRI)	Btu/h	11,000	12,000	18,000	28,000	36,000
	Capacity Range (MIN-MAX)	Btu/h	4,350~12,250	4,500~14,400	5,600~24,000	7,650~28,300	15,100~39,700
	Power Input	W	908	1,091	1,600	2,275	3,500
	Current	A	3.9	4.8	7.3	8.7	15.2
	COP	W/W	12.12	11.00	11.25	12.31	10.29
	HSPF4	Btu/h/W	10.0	10.0	10.0	11.0	9.8
	Capacity Rated at 17°F(AHRI)	Btu/h	6,000	6,600	11,000	19,600	26,000
	Capacity at 17°F(Max)	Btu/h	8,250	9,424	18,000	23,500	33,971
	Capacity at 5°F(Max)	Btu/h	8,250	9,000	14,750	21,060	29,101
ESP	Rated	in-H_2O (Pa)	0.1 (25)	0.1 (25)	0.1 (25)	0.18 (45)	0.23 (57)
	Range	in-H_2O (Pa)	0~0.2 (0~50)	0~0.2 (0~50)	0~0.2 (0~50)	0.1-0.4 (25~100)	0.1-0.56 (25~140)
Indoor Air Flow Rated(Hi/Med/Lo)		CFM(m^3/h)	309/259/208 (520/435/350)	324/285/235 (550/484/400)	529/441/371 (900/750/630)	706/588/500 (1,200/1,000/850)	883/735/617 (1,500/1,250/1,050)
Indoor Sound Pressure Level (Hi/Med/Lo)		dB(A)	35/33/32	36/34/33	38/37/36	42/38/36	43/40/38
Indoor Fan Motor	Qty		1	1	1	1	1
	Speed (Hi/Med/Lo)	r/min	690/590/510	790/690/590	860/760/660	1,010/890/780	850/700/600
Indoor Unit	Dimension (W×H×D)	in(mm)	35-7/8×7-1/2×17-5/8 (910×190×447)	35-7/8×7-1/2×17-5/8 (910×190×447)	46-1/2×7-1/2×17-5/8 (1,180×190×447)	35-3/8×10-5/8×28-3/8 (900×270×720)	51-1/8×13-3/4×31-1/2 (1,300×350×800)
	Packing (LxWxH)	in(mm)	42-1/2×11-1/4×22-1/4 (1,080×285×565)	42-1/2×11-1/4×22-1/4 (1,080×285×565)	53-1/8×11-1/4×22-1/4 (1,350×285×565)	46-1/8×13-3/8×34-1/4 (1,170×340×870)	61×16-1/8×37 (1,550×410×940)
	Net Weight	lbs (kg)	39.7 (18)	39.7 (18)	49.6 (22.5)	66.1 (30)	112.4 (51)
	Gross Weight	lbs (kg)	46.3 (21)	46.3 (21)	57.3 (26)	77.2 (35)	132.3 (60)
Controller Adjustable Temperature Range		°F (℃)	61~86 (16~30)	61~86 (16~30)	61~86 (16~30)	61~86 (16~30)	61~86 (16~30)
Outdoor Air Flow Rated(Hi/Med/Lo)		CFM(m^3/h)	1,355 (2,300)	1,355 (2,300)	1,853 (3,150)	2,235 (3,800)	3,416 (5,800)
Outdoor Sound Pressure Level		dB(A)	52	52	55	55	61
Outdoor fan motor	Qty		1	1	1	1	1
	Speed(Hi)	r/min	850	880	880	830	850
Compressor	Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Oil Type		ESTER OIL VG74	ESTER OIL VG74	ESTER OIL VG74	VG74	PQE VG74
	Oil Charge	oz. (ml)	12.5 (370)	12.5 (370)	16.9 (500)	22.7 (670)	33.8 (1,000)
Outdoor Unit	Dimension (W×H×D)	in (mm)	31-7/8×22-7/8×11 (810×580×280)	31-7/8×22-7/8×11 (810×580×280)	33-7/8×26-3/8×12-1/4 (860×670×310)	37-3/8×33-1/8×13-3/8 (950×840×340)	37-3/8×41-3/8×13-3/8 (950×1,050×340)
	Packing (W×H×D)	in (mm)	37×25-1/4×16-1/2 (940×640×420)	37×25-1/4×16-1/2 (940×640×420)	39×28-3/4×17-3/4 (990×730×450)	43-3/4×36-1/4×18-1/8 (1,110×920×460)	43-3/4×47-1/4×18-1/8 (1,110×1,200×460)
	Net Weight	lbs (kg)	75 (34)	79 (36)	106 (48)	155 (70.5)	192 (87)
	Gross Weight	lbs (kg)	84 (38)	88 (40)	115 (52)	166 (75.5)	215 (97)
Drainage Water Pipe Diameter		in (mm)	1-1/4 (Φ32)	1-1/4 (Φ32)	1-1/4 (Φ32)	1-1/4 (Φ32)	1-1/4 (Φ32)
Throttle Type			EEV	EEV	EEV	EEV	EEV
Electrical	Power Supply (To outdoor unit)	V/ph/Hz	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
	MIN. AMPACITY	A	7.3	12	15	23	25
	MAX. TD FUSE/ BREAKER	A	15	20	20	35	45
	Cable between IDU & ODU	No.x AWG	3×12/4×16	3×14/4×16	3×12/4×16	3×12/4×16	3×10/4×16
Refrigerant Piping	Liquid Line OD	in (mm)	1/4 (Φ6.35)	1/4 (Φ6.35)	1/4 (Φ6.35)	3/8 (Φ9.52)	3/8 (Φ9.52)
	Gas Line OD	in (mm)	3/8 (Φ9.52)	3/8 (Φ9.52)	1/2' (Φ12.7)	5/8' (Φ15.88)	3/4' (Φ19.05)
	Max. Length	Ft. (m)	82 (25)	82 (25)	98 (30)	164 (50)	164 (50)
	Max. Height	Ft. (m)	49 (15)	49 (15)	49 (15)	98 (30)	98 (30)
Refrigerant	Type		R-410A	R-410A	R-410A	R-410A	R-410A
	PreCharge(for 25Ft. Pipe)	oz. (kg)	33.5 (0.95)	45.9 (1.3)	56.44 (1.6)	91.7 (2.6)	111.2 (3.15)
	Additional Charge for Each Ft.	oz.	1.23	1.23	1.23	1.23	1.23
Design Pressure	H/L	PSIG (Mpa)	550/240 (3.8/1.6)	550/240 (3.8/1.6)	550/240 (3.8/1.6)	550/240 (3.8/1.6)	550/240 (3.8/1.6)
Working Ambient Range *3	Cooling	°F (℃)	5~118 (-15~48)	5~118 (-15~48)	5~118 (-15~48)	5~118 (-15~48)	5~118 (-15~48)
	Heating	°F (℃)	-4~75 (-20~24)	-4~75 (-20~24)	-4~75 (-20~24)	-13~75 (-25~24)	-4~75 (-20~24)
Containerization	Indoor Unit (Qty'per 20' /40' /40'HQ)	Set	160/352/396	160/352/396	128/264/297	84/182/182	35/75/90
	Outdoor Unit (Qty'per 20' /40' /40'HQ)	Set	102/204/272	102/204/272	90/186/186	52/106/106	26/53/106

*1 *2 AHRI Rated Condition Based on Limited Compressor Speed.
*1 Cooling (Indoor // Outdoor) 80°F DB, 67°F WB // 95°F DB, 75°F WB
*2 Heating at 47°F (Indoor // Outdoor) 70°F DB, 60°F WB // 47°F DB, 43°F WB
Heating at 17°F (Indoor // Outdoor) 70°F DB, 60°F WB // 17°F DB, 15°F WB
Heating at 5°F (Indoor // Outdoor) 70°F DB, 60°F WB // 5°F DB, 4°F WB
*3 Standard Unit Without Additional Low Ambient Kits

SPECIFICATIONS

WALL-MOUNT WITH LOW AMBIENT COOLING KIT

IDU			RPK-1.0PNN1DH	RPK-1.5PNN1DH	RPK-2.0PNN1DH	RPK-3.0PNN1DH	RPK-4.0PNN1DH
ODU			RAS-1.0PNNBDH1 w/LAC	RAS-1.5PNNBDH1 w/LAC	RAS-2.0PNNBDH1 w/LAC	RAS-3.0PNNBDH1 w/LAC	RAS-4.0PNNBDH1 w/LAC
ENERGY STAR® Certified		V/Ph/Hz	Yes	Yes	Yes	No	No
Cooling	Nominal Capacity	Btu/h	9,000	12,000	18,000	23,400	36,000
	Capacity Range (MIN-MAX)	Btu/h	3,600~11,500	4,000~14,500	6,500~19,500	8,000~25,000	12,000~38,000
	Power Input	W	643	916	1,374	1,879	3,428
	Current	A	3.30	4.16	6.24	8.54	14.90
Heating	Nominal Capacity	Btu/h	9,200	12,000	18,500	25,800	36,000
	Capacity Range (MIN-MAX)	Btu/h	3,600~13,000	4,000~14,000	6,500~20,000	8,000~26,500	12,000~38,000
	Input	W	697	1,139	1,467	2,640	3,540
	Current	A	3.7	5.3	7.5	12.1	15.5
Indoor Air Flow Rated (Ultrahigh/Hi/Med/Lo)		CFM(m^3/h)	341/294/247 (580/500/420)	364/312/253 (620/530/430)	588/482/382 (1,000/820/650)	647/559/441 (1,100/950/750)	1,058/942/882 (1,800/1,600/1,350)
Indoor Noise Level (Sound Pressure Hi/Med/Lo)		dB(A)	42/32/26	42/32/26	48/41/34	50/42/38	52/46/41
Indoor Fan Motor	Qty		1	1	1	1	1
	Speed (Hi/Med/Lo)	r/min	1,100/940/800	1,150/990/800	1,100/960/800	1,200/1,040/880	1,154/1,000/851
Indoor Unit	Dimension (W×H×D)	in(mm)	36-3/4×10-5/8×8-1/164 (934×270×210)	36-3/4×10-5/8×8-1/164 (934×270×210)	47-3/4×12-7/16×9-5/16 (1,213×315×238)	47-3/4×12-7/16×9-5/16 (1,213×315×238)	54-3/8×14-7/8×11-1/2 (1,380×378×295)
	Packing (LxWxH)	in(mm)	39-3/8×13-3/16×10-1/4 (1,000×335×260)	39-3/8×13-3/16×10-1/4 (1,000×335×260)	50-3/4×15-7/16×15-1/2 (1,290×392×318)	50-3/4×15-7/16×15-1/2 (1,290×392×318)	58-6/8×18-7/8×16-1/8 (1,495×480×410)
	Net Weight	lbs (kg)	19.9 (9.0)	19.9 (9.0)	32.0 (14.5)	32.0 (14.5)	51.9 (23.5)
	Shipping Weight	lbs (kg)	24.3 (11)	24.3 (11)	37.5 (17)	37.5 (17)	61.8 (28)
Remote Control Adjustable Temperature Range		°F (°C)	61~86 (16~30)	61~86 (16~30)	61~86 (16~30)	61~86 (16~30)	61~86 (16~30)
Outdoor Air Flow		CFM(m^3/h)	1,353 (2,300)	1,353 (2,300)	1,853 (3,150)	2,235 (3,800)	3,412 (5,800)
Outdoor Noise Level (Sound Pressure)		dB(A)	52	52	55	55	61
Outdoor fan motor	Qty		1	1	1	1	1
	Speed(Hi)	r/min	850	880	880	830	850
Compressor	Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Oil Type		ESTER OIL VG74	ESTER OIL VG74	ESTER OIL VG74	VG74	PQE VG74
	Oil Charge	oz. (ml)	12.5 (370)	12.5 (370)	16.9 (500)	22.7 (670)	33.8 (1,000)
Outdoor Unit	Dimension (W×H×D)	in (mm)	31-7/8×22-7/8×23 (810×580×584)	31-7/8×22-7/8×23 (810×580×584)	33-7/8×26-3/8×24-1/4 (860×670×616)	37-3/8×33-1/8×25-3/8 (950×840×645)	37-3/8×41-3/8×25-3/8 (950×1,050×645)
	Packing (W×H×D)	in (mm)	37×25-1/4×16-1/2 (940×640×420)	37×25-1/4×16-1/2 (940×640×420)	39×28-3/4×17-3/4 (990×730×450)	43-3/4×36-1/4×18-1/8 (1,110×920×460)	43-3/4×47-1/4×18-1/8 (1,110×1,200×460)
	Net Weight	lbs (kg)	77(34.9)	81(36.9)	108(48.9)	157.1(71.4)	194(87.9)
	Shipping Weight	lbs (kg)	85.8(38.9)	90(40.9)	116.2(52.9)	168.4(76.4)	216.5(97.9)
Drainage Water Pipe Diameter		in (mm)	1-1/4 (dΦ32)	1-1/4 (dΦ32)	1-1/4 (dΦ32)	1-1/4 (dΦ32)	1-1/4 (Φ32)
Throttle Type			EEV	EEV	EEV	EEV	EEV
Electrical	Power Supply (To outdoor unit)	V/ph/Hz	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
	MIN. AMPACITY	A	7.6	12.3	15.3	23.3	25.3
	MAX. TD FUSE/ BREAKER	A	15	20	20	35	45
	Power & Communication Cable	No.x AWG	3×12/4×16	3×14/4×16	3×12/4×16	3×12/4×16	3×10/4×16
Refrigerant Piping	Liquid Line OD	in (mm)	1/4 (Φ6.35)	1/4 (Φ6.35)	1/4 (Φ6.35)	3/8 (Φ9.52)	3/8 (Φ9.52)
	Vapor Line OD	in (mm)	3/8 (Φ9.52)	3/8 (Φ9.52)	1/2' (Φ12.7)	5/8' (Φ15.88)	3/4' (Φ19.05)
	Max. Length	Ft. (m)	82 (25)	82 (25)	98 (30)	164 (50)	164 (50)
	Max. Difference in Level	Ft. (m)	49 (15)	49 (15)	49 (15)	98 (30)	98 (30)
Refrigerant	Type		R-410A	R-410A	R-410A	R-410A	R-410A
	Refrigerant Charge	oz. (kg)	33.5 (0.95)	45.9 (1.3)	56.44 (1.6)	91.7 (2.6)	111.2 (3.15)
	Additional Charge for Each Ft.	oz.	1.23	1.23	1.23	1.23	1.23
Design Pressure	H/L	PSIG (Mpa)	550/240 (3.8/1.6)	550/240 (3.8/1.6)	550/240 (3.8/1.6)	550/240 (3.8/1.6)	550/240 (3.8/1.6)
Working Ambient Range With Low Ambient Kit	Cooling	°F (°C)	-40~118 (-40~48)	-40~118 (-40~48)	-40~118 (-40~48)	-40~118 (-40~48)	-40~118 (-40~48)
	Heating	°F (°C)	-15~75 (-26~24)	-15~75 (-26~24)	-15~75 (-26~24)	-15~75 (-26~24)	-15~75 (-26~24)
Containerization	Indoor Unit (Qty'per 20' /40' /40'HQ)	Set	358/763/836	358/763/836	187/384/440	187/384/440	140/280/340
	Outdoor Unit (Qty'per 20' /40' /40'HQ)	Set	102/204/272	102/204/272	90/186/186	52/106/106	26/53/106

*1 Cooling (Indoor // Outdoor) 80°F DB, 67°F WB // 95°F DB, 75°F WB
*2 Heating at 47°F (Indoor // Outdoor) 70°F DB, 60°F WB // 47°F DB, 43°F WB
For Installations where inlet side of coil is not adjacent to a vertical surface, field fabricated and installed wind baffle on the coil inlet side is required.
Wind Baffle should not be used for heating applications.
For more information on this product, please refer to Installation manual, Service manual and Engineering manual.

SPECIFICATIONS

CASSETTE WITH LOW AMBIENT COOLING KIT

IU			RCIM-1.0PNN1DH	RCIM-1.5PNN1DH	RCI-2.0PNN1DH	RCI-3.0PNN1DH	RCI-4.0PNN1DH
OU			RAS-1.0PNNBDH1 w/LAC	RAS-1.5PNNBDH1 w/LAC	RAS-2.0PNNBDH1 w/LAC	RAS-3.0PNNBDH1 w/LAC	RAS-4.0PNNBDH1 w/LAC
ENERGY STAR® Certified		V/Ph/Hz	Yes	Yes	Yes	Yes	No
Cooling *1	Nominal Capacity	Btu/h	9,000	12,000	18,000	24,000	36,000
	Capacity Range (MIN-MAX)	Btu/h	4,900~11,500	5,850~13,000	4,250~21,000	8,650~25,100	12,650~36,700
	Power Input	W	740	1,000	1,460	1,960	3,420
	Current	A	3.9	4.6	6.8	8.9	14.9
Heating *2	Nominal Capacity	Btu/h	10,000	12,000	19,000	24,000	36,000
	Capacity Range (MIN-MAX)	Btu/h	4,400~12,200	4,450~14,300	5,650~24,000	7,650~28,300	15,100~42,500
	Power Input	W	749	966	1,465	1,990	3,230
	Current	A	3.8	4.4	6.6	9.0	14.3
Indoor Air Flow Rated(Hi/Med/Lo)		CFM(m^3/h)	309/274/232 (520/460/390)	324/294/235 (550/500/400)	588/500/394 (1,000/850/670)	647/530/400 (1,100/900/680)	941/794/676 (1,600/1,350/1,150)
Indoor Sound Pressure Level (Hi/Med/Lo)		dB(A)	38/34/31	42/37/33	38/36/34	44/40/38	49/43/39
Indoor Fan Motor	Qty		1	1	1	1	1
	Speed (Hi/Med/Lo)	r/min	600/500/400	690/600/500	400/320/260	600/480/390	630/600/570
Indoor Unit	Dimension (W×H×D)	in(mm)	22-1/2×8-1/2×22-1/2 (570×215×570)	22-1/2×8-1/2×22-1/2 (570×215×570)	33-1/8×9-3/4×33-1/8 (840×248×840)	33-1/8×9-3/4×33-1/8 (840×248×840)	33-1/8×11-3/4×33-1/8 (840×298×840)
	Packing (LxWxH)	in(mm)	28-3/4×26-1/4×11-1/2 (730×668×292)	28-3/4×26-1/4×11-1/2 (730×668×292)	39-1/4×37-5/8×14-5/8 (996×956×370)	39-1/4×37-5/8×14-5/8 (996×956×370)	39-1/4×37-5/8×16-1/2 (996×956×420)
	Net Weight	lbs (kg)	32 (14.5)	34 (15.5)	56 (25)	59.5(27)	70.5 (32)
	Gross Weight	lbs (kg)	38.5 (17.5)	40.5 (18.5)	76 (34)	79.5 (36)	90.5 (41)
Indoor Panel	Dimension (W×H×D)	in(mm)	24-3/8×1-5/8×24-3/8 (620×40×620)	24-3/8×1-5/8×24-3/8 (620×40×620)	37-3/8×1-3/4×37-3/8 (950×45×950)	37-3/8×1-3/4×37-3/8 (950×45×950)	37-3/8×1-3/4×37-3/8 (950×45×950)
	Packing (LxWxH)	in(mm)	27-1/8×26-3/4×4-1/2 (690×680×115)	27-1/8×26-3/4×4-1/2 (690×680×115)	40-3/8×40×4-3/4 (1,025×1,015×120)	40-3/8×40×4-3/4 (1025×1015×120)	40-3/8×40× 4-3/4 (1025×1015×120)
	Net Weight	lbs (kg)	5.7 (2.6)	5.7 (2.6)	14.3 (6.5)	14.3 (6.5)	14.3 (6.5)
	Gross Weight	lbs (kg)	9.9 (4.5)	9.9 (4.5)	20.9 (9.5)	20.9 (9.5)	20.9 (9.5)
Controller Adjustable Temperature Range		°F (℃)	61~86 (16~30)	61~86 (16~30)	61~86 (16~30)	61~86 (16~30)	61~86 (16~30)
Outdoor Air Flow Rated(Hi/Med/Lo)		CFM(m^3/h)	1,355 (2,300)	1,355 (2,300)	1,853 (3,150)	2,235 (3,800)	3,416 (5,800)
Outdoor Sound Pressure Level		dB(A)	52	52	55	55	61
Outdoor fan motor	Qty		1	1	1	1	1
	Speed(Hi)	r/min	850	880	880	830	850
Compressor	Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Oil Type		ESTER OIL VG74	ESTER OIL VG74	ESTER OIL VG74	VG74	PQE VG74
	Oil Charge	oz. (ml)	12.5 (370)	12.5 (370)	16.9 (500)	22.7 (670)	33.8 (1,000)
Outdoor Unit	Dimension (W×H×D)	in (mm)	31-7/8×22-7/8×23 (810×580×584)	31-7/8×22-7/8×23 (810×580×584)	33-7/8×26-3/8×24-1/4 (860×670×616)	37-3/8×33-1/8×25-3/8 (950×840×645)	37-3/8×41-3/8×25-3/8 (950×1,050×645)
	Packing (W×H×D)	in (mm)	37×25-1/4×16-1/2 (940×640×420)	37×25-1/4×16-1/2 (940×640×420)	39×28-3/4×17-3/4 (990×730×450)	43-3/4×36-1/4×18-1/8 (1,110×920×460)	43-3/4×47-1/4×18-1/8 (1,110×1,200×460)
	Net Weight	lbs (kg)	77(34.9)	81(36.9)	108(48.9)	157.1(71.4)	194(87.9)
	Gross Weight	lbs (kg)	85.8(38.9)	90(40.9)	116.2(52.9)	168.4(76.4)	216.5(97.9)
Drainage Water Pipe Diameter		in (mm)	1-1/4 (Φ32)	1-1/4 (Φ32)	1-1/4 (Φ32)	1-1/4 (Φ32)	1-1/4 (Φ32)
Throttle Type			EEV	EEV	EEV	EEV	EEV
Electrical	Power Supply (To outdoor unit)	V/ph/Hz	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
	MIN. AMPACITY	A	7.6	12.3	15.3	23.3	25.3
	MAX. TD FUSE/ BREAKER	A	15	20	20	35	45
	Cable between IDU & ODU	No.x AWG	3×12/4×16	3×14/4×16	3×12/4×16	3×12/4×16	3×10/4×16
Refrigerant Piping	Liquid Line OD	in (mm)	1/4 (Φ6.35)	1/4 (Φ6.35)	1/4 (Φ6.35)	3/8 (Φ9.52)	3/8 (Φ9.52)
	Gas Line OD	in (mm)	3/8 (Φ9.52)	3/8 (Φ9.52)	1/2' (Φ12.7)	5/8' (Φ15.88)	3/4' (Φ19.05)
	Max. Length	Ft. (m)	82 (25)	82 (25)	98 (30)	164 (50)	164 (50)
	Max. Height	Ft. (m)	49 (15)	49 (15)	49 (15)	98 (30)	98 (30)
Refrigerant	Type		R-410A	R-410A	R-410A	R-410A	R-410A
	PreCharge(for 25Ft. Pipe)	oz. (kg)	33.5 (0.95)	45.9 (1.3)	56.44 (1.6)	91.7 (2.6)	111.2 (3.15)
	Additional Charge for Each Ft.	oz.	1.23	1.23	1.23	1.23	1.23
Design Pressure	H/L	PSIG (Mpa)	550/240 (3.8/1.6)	550/240 (3.8/1.6)	550/240 (3.8/1.6)	550/240 (3.8/1.6)	550/240 (3.8/1.6)
Working Ambient Range with Low ambient kit	Cooling	°F (℃)	-40~118 (-40~48)	-40~118 (-40~48)	-40~118 (-40~48)	-40~118 (-40~48)	-40~118 (-40~48
	Heating	°F (℃)	-15~75 (-26~24)	-15~75 (-26~24)	-15~75 (-26~24)	-15~75 (-26~24)	-15~75 (-26~24)

*1 Cooling (Indoor // Outdoor) 80°F DB, 67°F WB // 95°F DB, 75°F WB
*2 Heating at 47°F (Indoor // Outdoor) 70°F DB, 60°F WB // 47°F DB, 43°F WB

For Installations where inlet side of coil is not adjacent to a vertical surface, field fabricated and installed wind baffle on the coil inlet side is required.
Wind Baffle should not be used for heating applications.
For more information on this product, please refer to Installation manual, Service manual and Engineering manual.

SPECIFICATIONS

DUCTED WITH LOW AMBIENT COOLING KIT

IU			RPIL-1.0PNN1DH	RPIL-1.5PNN1DH	RPIL-2.0PNN1DH	RPIM-3.0PNN1DH	RPIM-4.0PNN1DH
OU			RAS-1.0PNNBDH1 w/LAC	RAS-1.5PNNBDH1 w/LAC	RAS-2.0PNNBDH1 w/LAC	RAS-3.0PNNBDH1 w/LAC	RAS-4.0PNNBDH1 w/LAC
ENERGY STAR® Certified		V/Ph/Hz	Yes	No	No	No	No
Cooling *1	Nominal Capacity	Btu/h	9,000	12,000	18,000	24,000	36,000
	Capacity Range (MIN-MAX)	Btu/h	4,900~11,500	5,850~13,000	4,200~21,000	8,600~27,000	12,550~37,200
	Power Input	W	790	1,131	1,710	2,330	3,340
	Current	A	4.0	5.1	7.9	10.6	14.65
Heating *2	Nominal Capacity	Btu/h	11,000	12,000	18,000	28,000	36,000
	Capacity Range (MIN-MAX)	Btu/h	4,350~12,250	4,500~14,400	5,600~24,000	7,650~28,300	15,100~39,700
	Power Input	W	948	1,131	1,640	2,315	3,540
	Current	A	4.2	5.1	7.6	9.0	15.5
ESP	Rated	in-H_2O (Pa)	0.1 (25)	0.1 (25)	0.1 (25)	0.18 (45)	0.23 (57)
	Range	in-H_2O (Pa)	0~0.2 (0~50)	0~0.2 (0~50)	0~0.2 (0~50)	0.1-0.4 (25~100)	0.1-0.56 (25~140)
Indoor Air Flow Rated(Hi/Med/Lo)		CFM(m^3/h)	309/259/208 (520/435/350)	324/285/235 (550/484/400)	529/441/371 (900/750/630)	706/588/500 (1,200/1,000/850)	883/735/617 (1,500/1,250/1,050)
Indoor Sound Pressure Level (Hi/Med/Lo)		dB(A)	35/33/32	36/34/33	38/37/36	42/38/36	43/40/38
Indoor Fan Motor	Qty		1	1	1	1	1
	Speed (Hi/Med/Lo)	r/min	690/590/510	790/690/590	860/760/660	1,010/890/780	850/700/600
Indoor Unit	Dimension (W×H×D)	in(mm)	35-7/8×7-1/2×17-5/8 (910×190×447)	35-7/8×7-1/2×17-5/8 (910×190×447)	46-1/2×7-1/2×17-5/8 (1,180×190×447)	35-3/8×10-5/8×28-3/8 (900×270×720)	51-1/8×13-3/4×31-1/2 (1,300×350×800)
	Packing (LxWxH)	in(mm)	42-1/2×11-1/4×22-1/4 (1,080×285×565)	42-1/2×11-1/4×22-1/4 (1,080×285×565)	53-1/8×11-1/4×22-1/4 (1,350×285×565)	46-1/8×13-3/8×34-1/4 (1,170×340×870)	61×16-1/8×37 (1,550×410×940)
	Net Weight	lbs (kg)	39.7 (18)	39.7 (18)	49.6 (22.5)	66.1 (30)	112.4 (51)
	Gross Weight	lbs (kg)	46.3 (21)	46.3 (21)	57.3 (26)	77.2 (35)	132.3 (60)
Controller Adjustable Temperature Range		°F (°C)	61~86 (16~30)	61~86 (16~30)	61~86 (16~30)	61~86 (16~30)	61~86 (16~30)
Outdoor Air Flow Rated(Hi/Med/Lo)		CFM(m^3/h)	1,355 (2,300)	1,355 (2,300)	1,853 (3,150)	2,235 (3,800)	3,416 (5,800)
Outdoor Sound Pressure Level		dB(A)	52	52	55	55	61
Outdoor fan motor	Qty		1	1	1	1	1
	Speed(Hi)	r/min	850	880	880	830	850
Compressor	Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Oil Type		ESTER OIL VG74	ESTER OIL VG74	ESTER OIL VG74	VG74	PQE VG74
	Oil Charge	oz. (ml)	12.5 (370)	12.5 (370)	16.9 (500)	22.7 (670)	33.8 (1,000)
Outdoor Unit	Dimension (W×H×D)	in (mm)	31-7/8×22-7/8×23 (810×580×584)	31-7/8×22-7/8×23 (810×580×584)	33-7/8×26-3/8×24-1/4 (860×670×616)	37-3/8×33-1/8×25-3/8 (950×840×645)	37-3/8×41-3/8×25-3/8 (950×1,050×645)
	Packing (W×H×D)	in (mm)	37×25-1/4×16-1/2 (940×640×420)	37×25-1/4×16-1/2 (940×640×420)	39×28-3/4×17-3/4 (990×730×450)	43-3/4×36-1/4×18-1/8 (1,110×920×460)	43-3/4×47-1/4×18-1/8 (1,110×1,200×460)
	Net Weight	lbs (kg)	77(34.9)	82(37.2)	107.8(48.9)	157.1(71.4)	194(87.9)
	Gross Weight	lbs (kg)	85.8(38.9)	90(40.8)	116.6(52.9)	168.4(76.4)	216.5(97.9)
Drainage Water Pipe Diameter		in (mm)	1-1/4 (Φ32)	1-1/4 (Φ32)	1-1/4 (Φ32)	1-1/4 (Φ32)	1-1/4 (Φ32)
Throttle Type			EEV	EEV	EEV	EEV	EEV
Electrical	Power Supply (To outdoor unit)	V/ph/Hz	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
	MIN. AMPACITY	A	7.6	12.3	15.3	23.3	25.3
	MAX. TD FUSE/ BREAKER	A	15	20	20	35	45
	Cable between IDU & ODU	No.x AWG	3×12/4×16	3×14/4×16	3×12/4×16	3×12/4×16	3×10/4×16
Refrigerant Piping	Liquid Line OD	in (mm)	1/4 (Φ6.35)	1/4 (Φ6.35)	1/4 (Φ6.35)	3/8 (Φ9.52)	3/8 (Φ9.52)
	Gas Line OD	in (mm)	3/8 (Φ9.52)	3/8 (Φ9.52)	1/2' (Φ12.7)	5/8' (Φ15.88)	3/4' (Φ19.05)
	Max. Length	Ft. (m)	82 (25)	82 (25)	98 (30)	164 (50)	164 (50)
	Max. Height	Ft. (m)	49 (15)	49 (15)	49 (15)	98 (30)	98 (30)
Refrigerant	Type		R-410A	R-410A	R-410A	R-410A	R-410A
	PreCharge(for 25Ft. Pipe)	oz. (kg)	33.5 (0.95)	45.9 (1.3)	56.44 (1.6)	91.7 (2.6)	111.2 (3.15)
	Additional Charge for Each Ft.	oz.	1.23	1.23	1.23	1.23	1.23
Design Pressure	H/L	PSIG (Mpa)	550/240 (3.8/1.6)	550/240 (3.8/1.6)	550/240 (3.8/1.6)	550/240 (3.8/1.6)	550/240 (3.8/1.6)
		°F (°C)	-40~118 (-40~48)	-40~118 (-40~48)	-40~118 (-40~48)	-40~118 (-40~48)	-40~118 (-40~48)
		°F (°C)	-15~75 (-26~24)	-15~75 (-26~24)	-15~75 (-26~24)	-15~75 (-26~24)	-15~75 (-26~24)
Containerization	Indoor Unit (Qty'per 20' /40' /40'HQ)	Set	160/352/396	160/352/396	128/264/297	84/182/182	35/75/90
	Outdoor Unit (Qty'per 20' /40' /40'HQ)	Set	102/204/272	102/204/272	90/186/186	52/106/106	26/53/106

*1 Cooling (Indoor // Outdoor) 80°F DB, 67°F WB // 95°F DB, 75°F WB
*2 Heating at 47°F (Indoor // Outdoor) 70°F DB, 60°F WB // 47°F DB, 43°F WB

For Installations where inlet side of coil is not adjacent to a vertical surface, field fabricated and installed wind baffle on the coil inlet side is required.
Wind Baffle should not be used for heating applications.
For more information on this product, please refer to Installation manual, Service manual and Engineering manual.


head
shoulder
loin
side
ham
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The systems are also UL certified and ETL certified, airCloud Home App is ETL certified (Canada & USA), signifying it complies with the standard of Heating and Cooling Equipment (ANSI/UL 1995 and CAN/CSA C22.2 No. 236-11, 4th Edition, October 14, 2011).

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Before purchasing this appliance, read important information about its estimated annual energy consumption, yearly operating cost, or energy efficiency rating that is available from your retailer.

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AHRI Standard 210/240
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Industry certified
Hitachi mini-split models below are certified by the Air Conditioning, Heating & Refrigeration Institute. The systems are also UL certified and ETL certified, signifying it complies with the standard of Heating and Cooling Equipment (ANSI/UL 1995 and CAN/CSA C22.2 No. 236-11, 4th Edition, October 14, 2011)

MODELS

OUTDOOR UNITS	CASSETTE
RAS-1.0PNNBDH1	RCIM-1.0PNN1DH
RAS-1.5PNNBDH1	RCIM-1.5PNN1DH
RAS-2.0PNNBDH1	RCI-2.0PNN1DH
RAS-3.0PNNBDH1	RCI-3.0PNN1DH
RAS-4.0PNNBDH1	RCI-4.0PNN1DH
DUCTED	**WALL-MOUNT**
RPIL-1.0PNN1DH	RPK-1.0PNN1DH
RPIL-1.5PNN1DH	RPK-1.5PNN1DH
RPIL-2.0PNN1DH	RPK-2.0PNN1DH
RPIM-3.0PNN1DH	RPK-3.0PNN1DH
RPIM-4.0PNN1DH	RPK-4.0PNN1DH