HITACHI

PRIMAIRY

LARGE SINGLE SPLIT
INVERTER SERIES | COOLING ONLY

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.

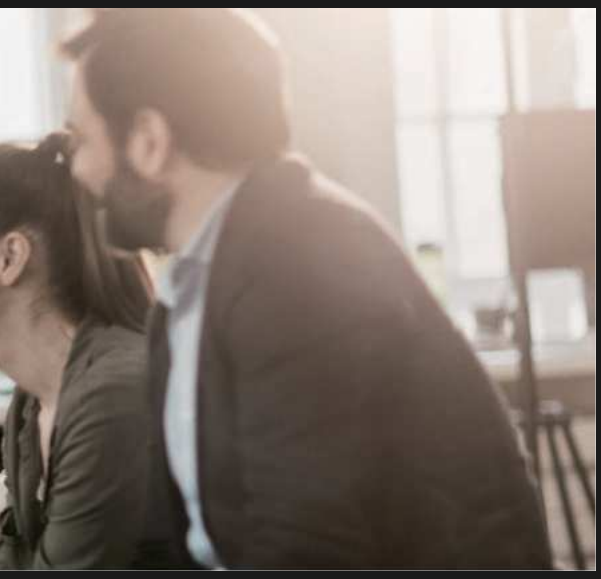
The beauty of balance

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.

We live & breath 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.



Living Harmony

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

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

The future together

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

Your world.

We live in it together.

Connecting with you

Reaching out

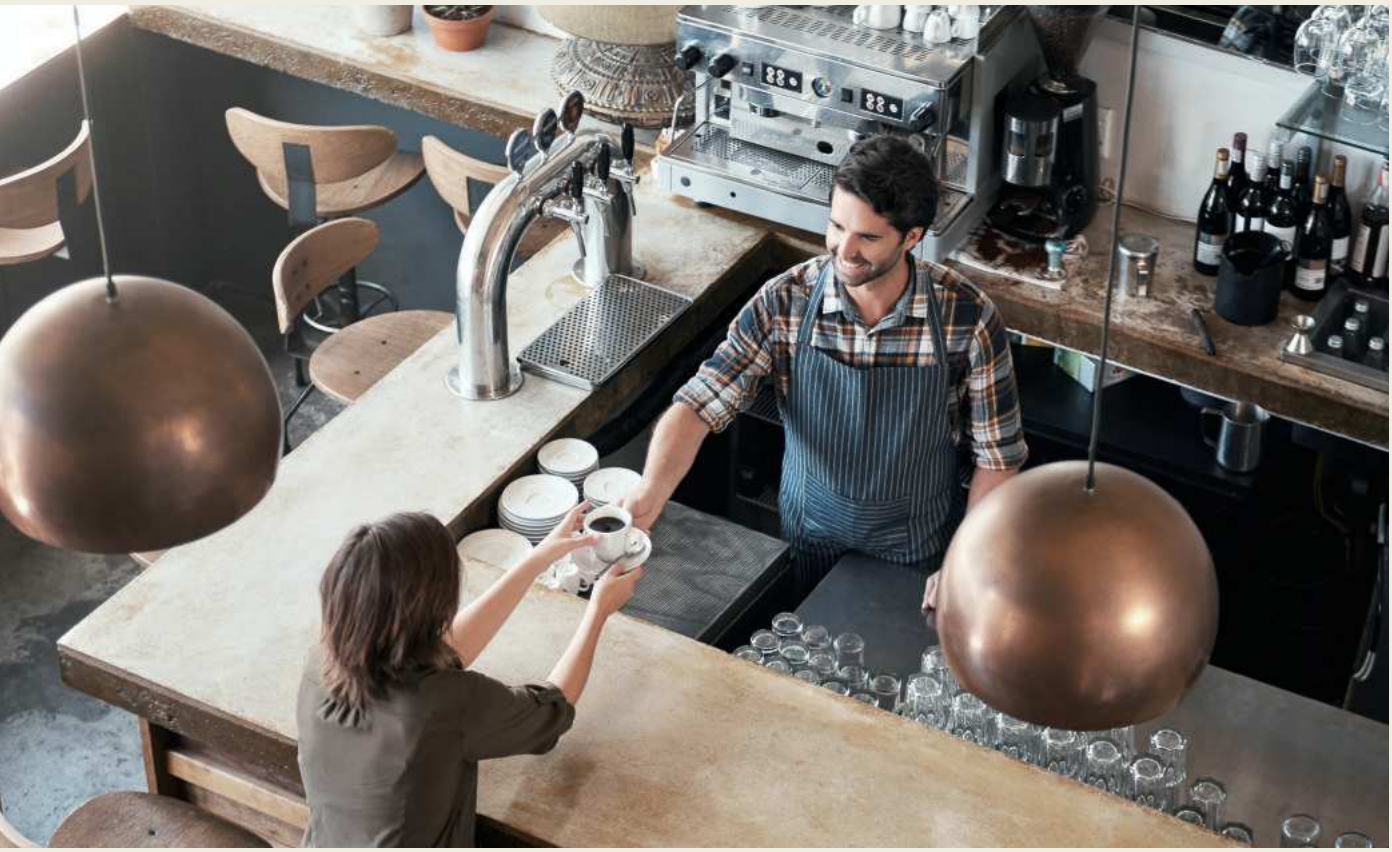
Finding the right appliances can be tricky.
PRIMAIRY is an air-conditioning system that was created to become a part of your long-term surroundings.

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 one 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 suiting your needs.

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.

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 them a great advantage – and making PRIMAIRY the right way to go, for you, your employees and your customers.

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.

56°C

High ambient cooling
Strong cooling for high ambient temperatures, enabling delivery of reliable cooling to users who require consistent resistance to high levels of natural heat. System is designed for temperatures of up to 56°C.

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.

16 steps

Multiple steps of adjustment (Only Inverter type)
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.

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.

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 we do care about comfortability in your space.

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.

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 & Cafe

“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.”

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.”

Small Work Space

“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.”

Having a comfortable setting is essential. The air-conditioning 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.

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.

COMFORT & RELIABILITY

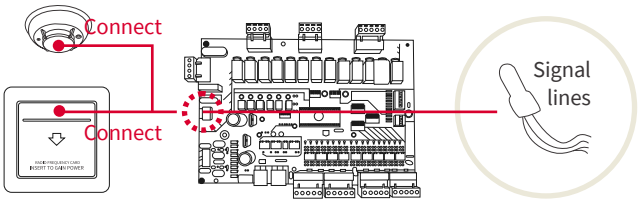
Enjoy an improved environment with one of the three main models of PRIMAIRY .
Once your space is transformed, you will get used to a much greater level of reliable comfort and convenience.

EXPANSION INTERFACE

The interface enables connection to a smoke detector, key slot or other device.

- **Reserved port for fire alarm device**
- **Reserved port for key slot**

For example: Hotel Room Card Control; insert the room card for power.



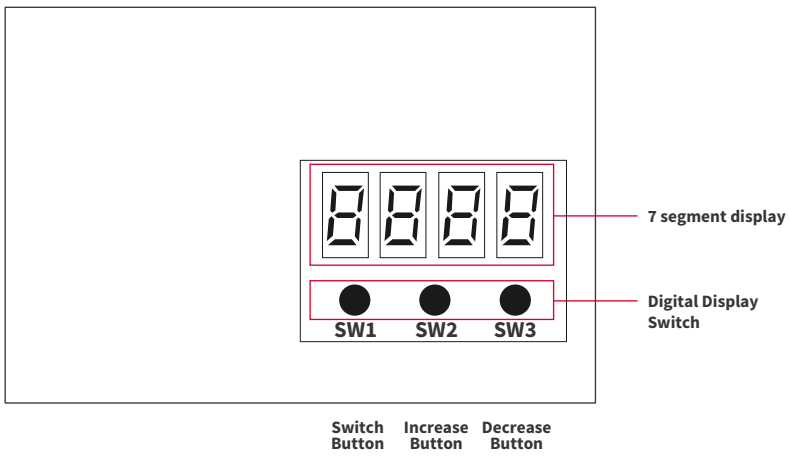
ERROR SELF-DIAGNOSIS FUNCTION

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)
Fault code displayed by indicator lights on outdoor control board.
The times that the lights flash is equal to fault code.

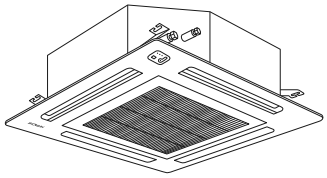
DC-Inverter outdoor control board



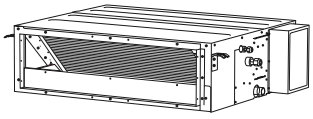
It can be used to check outdoor running parameters.

MULTI-SPEED FAN (INDOOR UNIT)

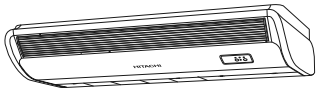
A multi-speed fan helps satisfy various airflow requirement.



Cassette unit



Ducted unit



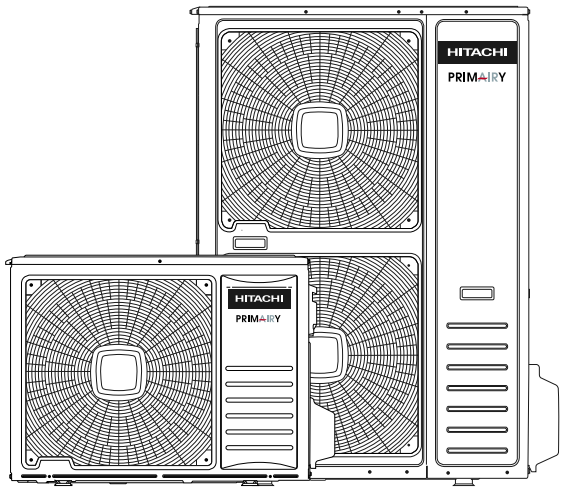
Floor Ceiling Convertible unit

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 and keeping your family and your neighbors content.

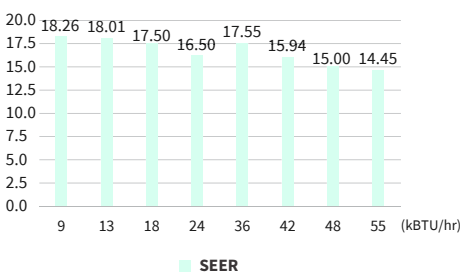


EFFICIENCY

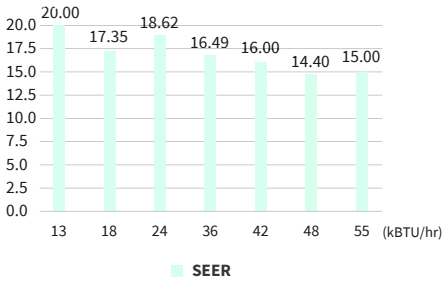
Sustained testing, engineering and design have created air conditioners that are very well suited to keeping their core functions running.
The outdoor unit can endure a wide temperature range and regulates its own response to freezing.

EFFICIENCY RATIO

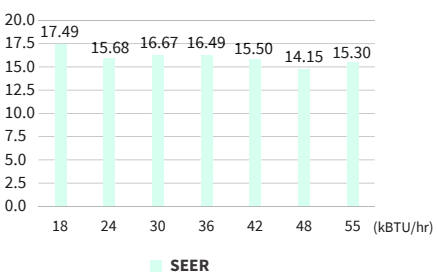
Ducted unit



Cassette unit

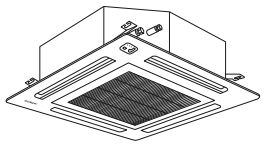


Floor ceiling convertible unit



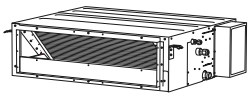
HIGH EFFICIENCY DC FAN MOTOR

Most of 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.



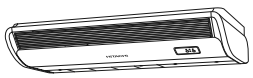
Cassette unit

Unit (BTU/hr)	13k	18k	24k	36k	42kB	48k	55k
Fan motor	DC	AC	DC	DC	DC	DC	DC



Ducted unit

Unit (BTU/hr)	9k	13k	18k	24k	36k	42k	48k	55k
Fan motor	DC	DC	AC	DC	DC	DC	DC	DC

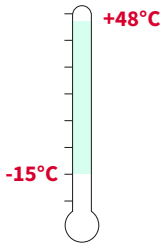


Floor Ceiling Convertible unit

Unit (BTU/hr)	18k	24k	30k	36k	42k	48k	55k
Fan motor	DC	DC	DC	DC	DC	DC	DC

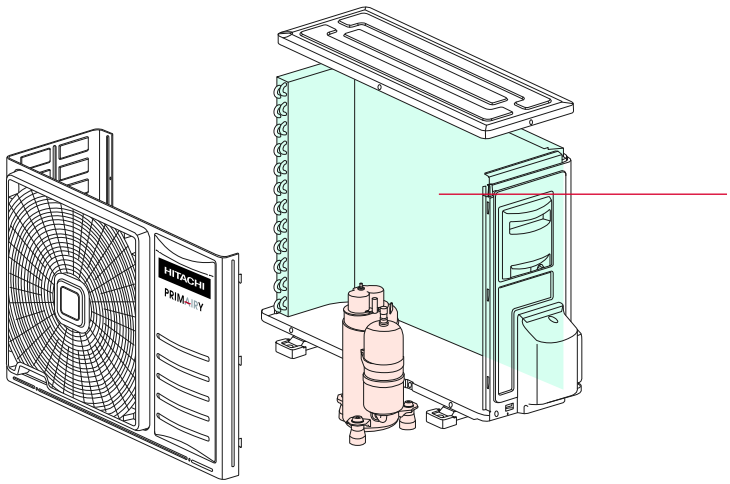
WIDE AMBIENT TEMPERATURE RANGE

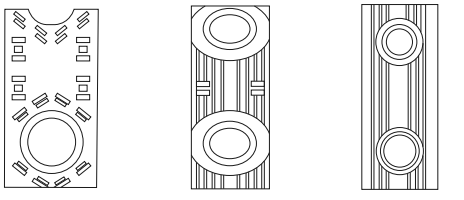
High cooling performance within a wide ambient temperature range.



Cooling mode

HIGH EFFICIENCY FIN
HIGH EFFICIENT HEAT EXCHANGER





High Φ7 louver

High Φ7 louver

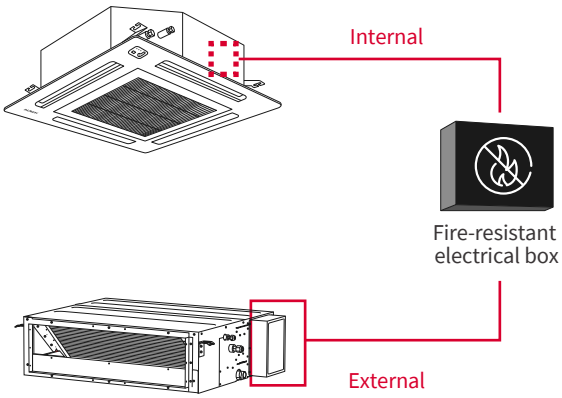
High Φ7.94 louver

RELIABILITY

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 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.



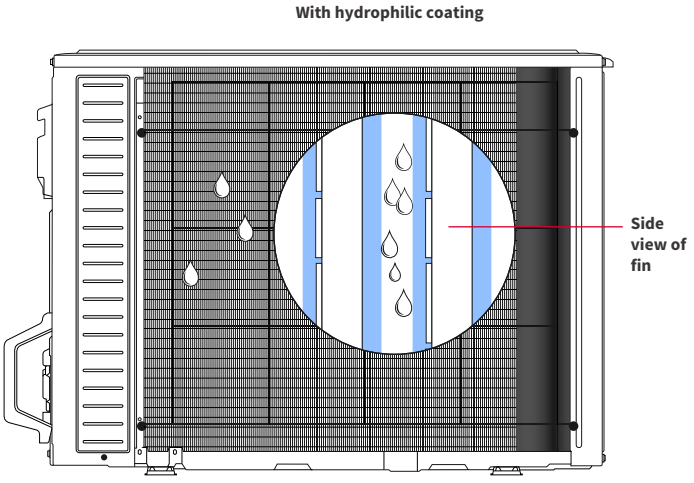
LOW/HIGH PRESSURE SWITCH

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

Comments:
For Inverter series, there's no LP&HP switch for 9/13/18/24kBTU/hr and no LP switch for 36kBTU/hr.

HYDROPHILIC ALUMINIUM 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.



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

TEMPERATURE PROTECTION SYSTEM

- Fan motor overheating protection
- Compressor overheating protection

RELIABLE RUNNING

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

REFRIGERANT LEAKAGE DETECTION

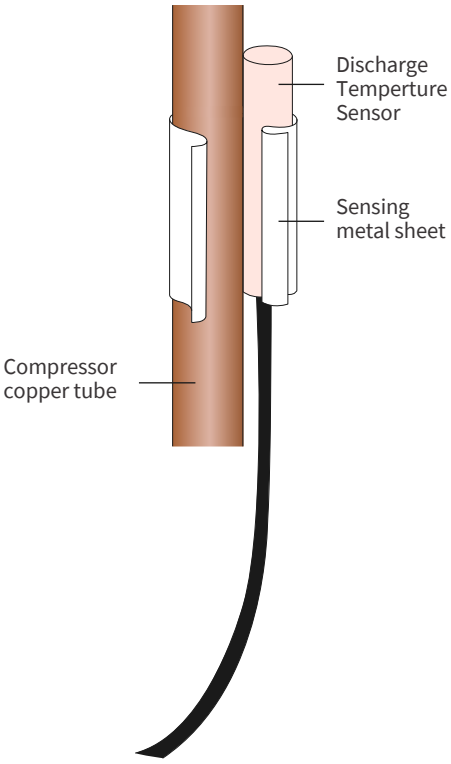
The indoor unit will stop operation automatically and show error code when the refrigerant charging amount is lower than 30%, which can avoid the compressor being damaged by high temperature due to refrigerant leakage.

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.

DISCHARGE TEMPERTURE SENSOR

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



DESIGN FLEXIBILITY

EASIER HANDLING OUTDOOR UNITS

As with each 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.

COMBINATION OF MODULES

RAS-B09TNTBNH1

Dimension (W×H×D)
730×536×260mm

kBTU/hr
9

RAS-B13TNTBNH1

Dimension (W×H×D)
810×585×280mm

kBTU/hr
13

RAS-B18TNTBNH1
RAS-B24TNTBNH1

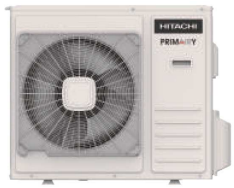
Dimension (W×H×D)
860×670×310mm

kBTU/hr
18 - 24

RAS-B30TNTBNH1
RAS-B36TNTBNH1

Dimension (W×H×D)
950×840×340mm

kBTU/hr
30 - 36



RAS-B42TNTBMH1

Dimension (W×H×D)
950×1050×340mm

kBTU/hr
42

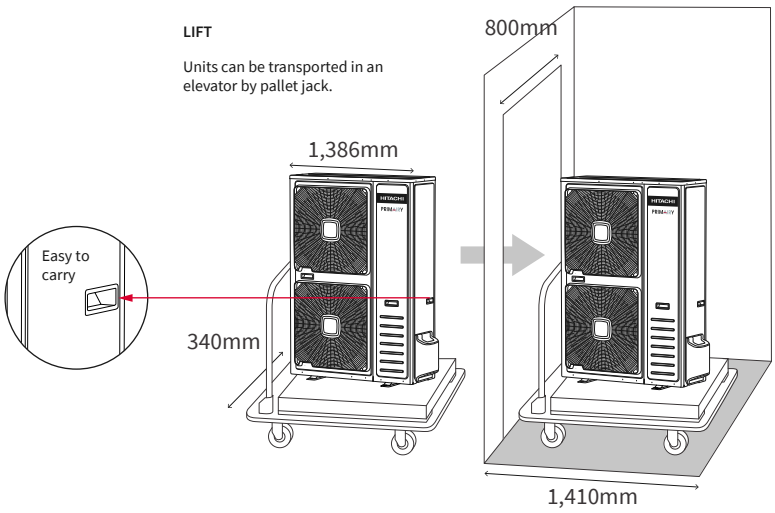
RAS-B48TNTBMH1
RAS-B55TNTBMH1

Dimension (W×H×D)
950×1386×340mm

kBTU/hr
48 - 55

COMPACTNESS AND LIGHTNESS

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

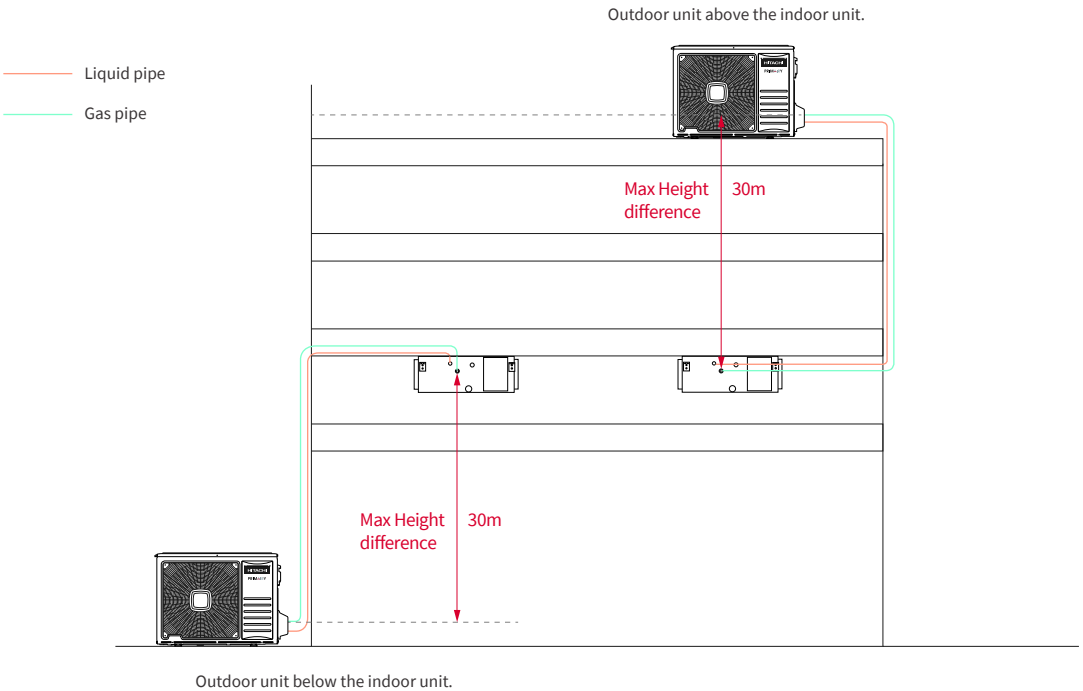


MORE FLEXIBLE PIPING

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 differenc e

Up to 50m piping run and 30m height applications can be covered, high flexibility in installation configuration.



Piping	kBTU/hr	9	13	18	24	36	42	48	55
Diameter (Liquid)	Inch	1/4	1/4	1/4	3/8	3/8	3/8	3/8	3/8
Diameter (Gas)	Inch	3/8	3/8	1/2	5/8	3/4	3/4	3/4	3/4
Max Length	m	25	25	30	50	50	50	50	50
Max Height	m	10	15	15	30	30	30	30	30

Indoor Life

The air moves towards your interior to make 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

	kBTU/hr	9	13	18	24	30	36	42	48	55
Ducted unit		•	•							
				•						
					•					
						•	•	•	•	•
Cassette unit			•	•						
					•		•			
								•	•	•
Floor Ceiling Convertible unit				•	•					
						•				
							•	•	•	•

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 consider from the range 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.

Fresh Air Inlet

Fresh air from outside can be led into the room, which keeps the room air pleasantly ventilated. (Opetional)

Disclaimer
Please note that the features and options listed above must be ordered in addition to your indoor unit.

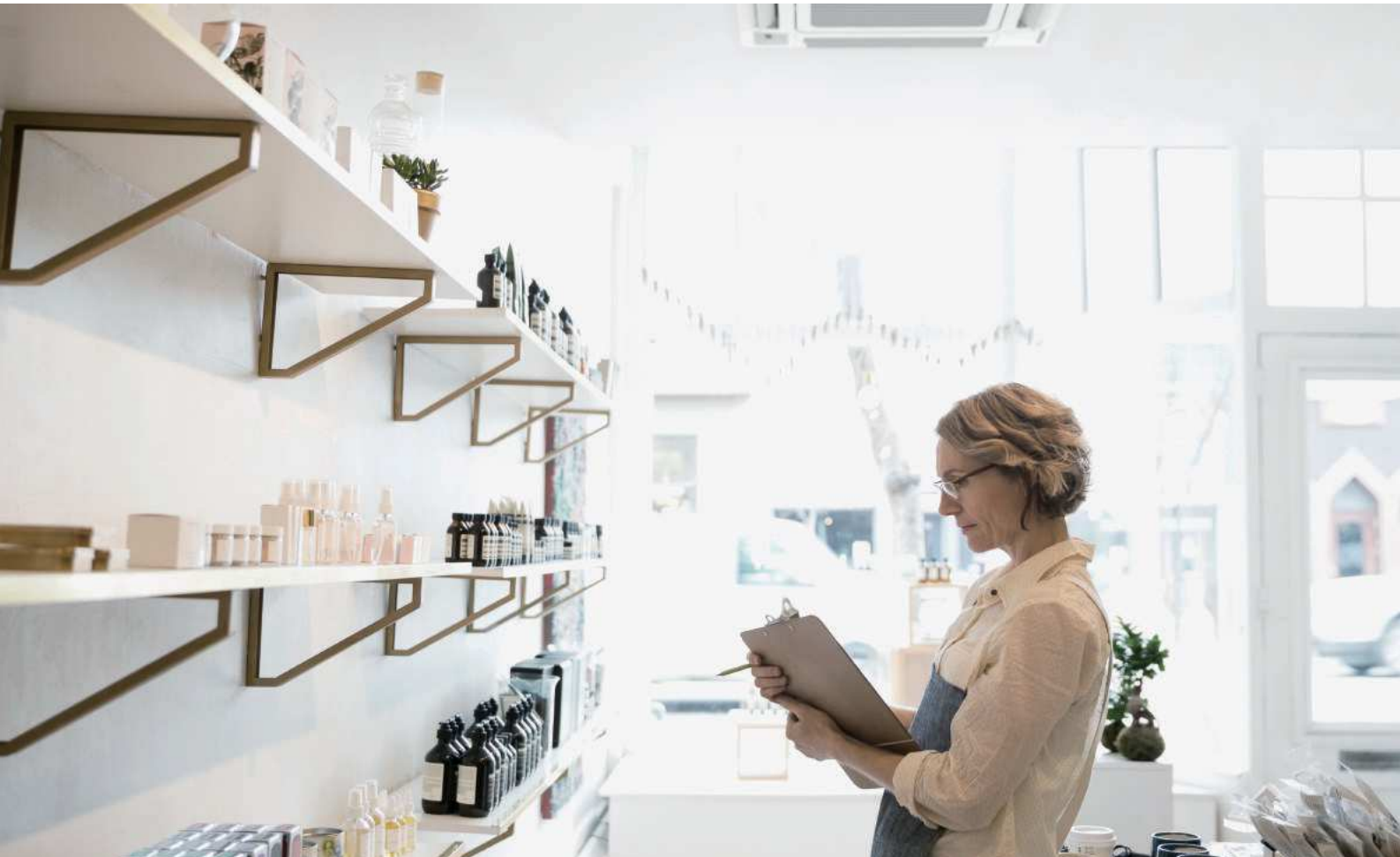
CASSETTE

FEATURES & BENEFITS

HCRA31NEWH
(Standard)

HCWA21NEWH
(Optional)

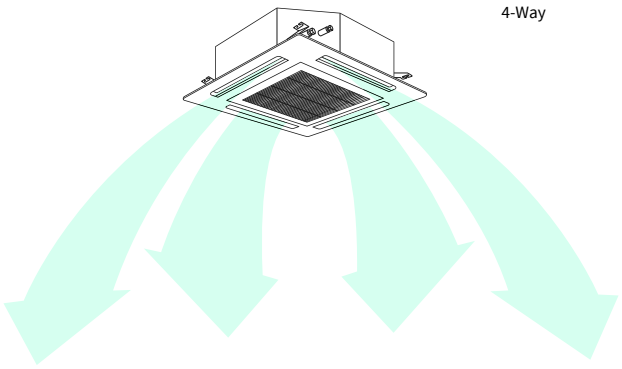
Cassette units are especially suited to narrow ceiling cavity or high ceilings. They fit to a standard ceiling grid and can be easily incorporated between light panels and other overhead fixtures.

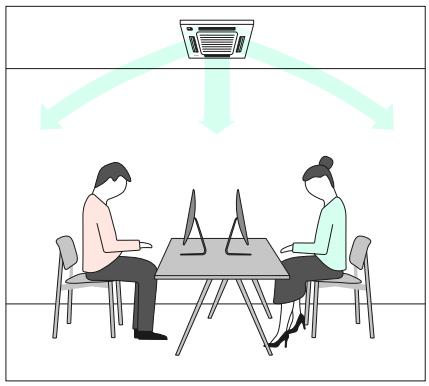


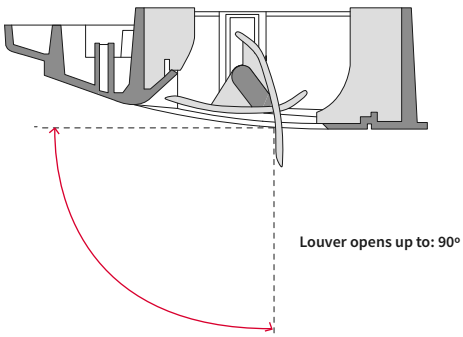
COMFORT

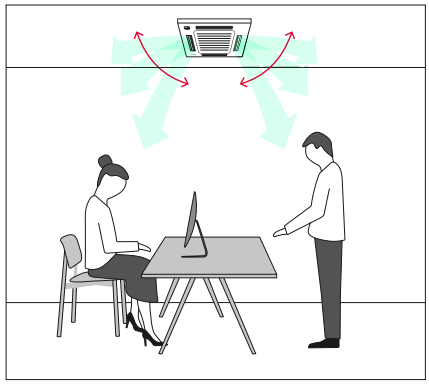
Control air flow with individual 4-Way louvers

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





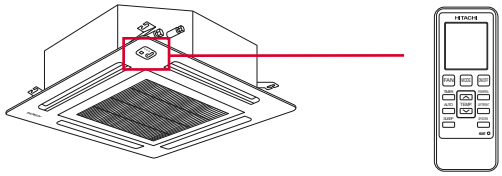




DESIGN FLEXIBILITY

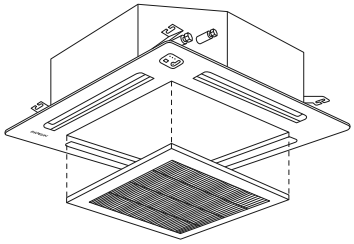
Infrared Receiver for Remote Controller

Reserved port for Remote sensing which makes control more convenient.



Washable Filter

A washable filter allows for cost-saving maintenance.



DUCTED

FEATURES & BENEFITS

HCWA21NEWH
(Standard)

HCRA31NEWH
(Optional)

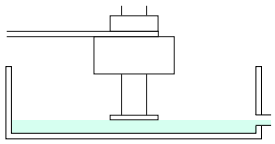
The efficient design makes the Ducted unit especially discreet. Ducted units can be installed in multiple points to thoroughly aerate each part of a space.

COMFORT

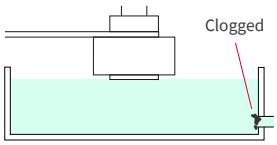
Durable Protection Drainage System

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.



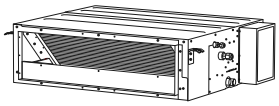
Indoor unit is running.



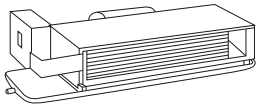
Indoor unit is turned off.

Built-in drain pan

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



Built-in drain pan



Exposed drain pan

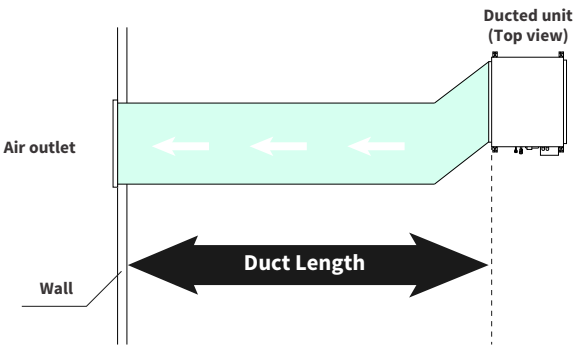
DESIGN FLEXIBILITY

Wide ESP range

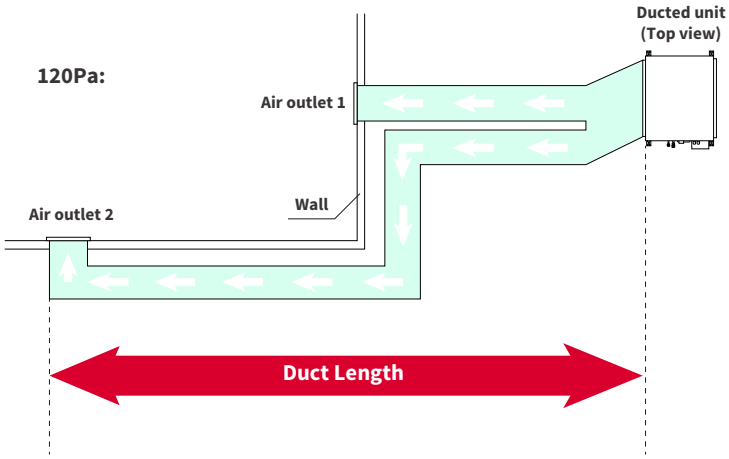
A wide ESP range means PRIMAIRY is suitable for spaces with many discrete areas, including corners and recesses. Multiple outlets can be connected to the ducted unit to ensure a uniform gust of air around a complex space. A system can be set up in a short time and will run reliably into the future.

For example:

50Pa:

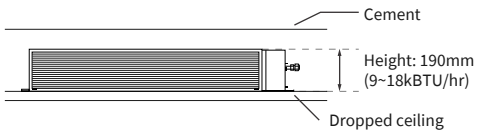


120Pa:



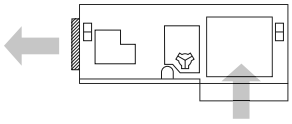
Compact design

This compact design minimizes the space between the cement and dropped ceiling, allowing a higher space within the room.

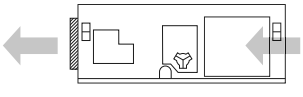


Flexible air return from bottom or rear

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



Bottom air intake



Rear air intake

FLOOR CEILING CONVERTIBLE

FEATURES & BENEFITS

HCRA31NEWH
(Standard)

HCWA21NEWH
(Optional)

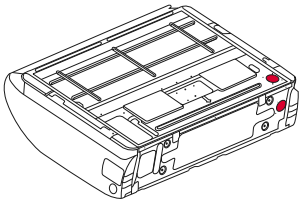
Small to medium-sized spaces benefit well from this slender unit. After a straightforward installation the unit blends into your interior. The fresh air intake, fan housing and other features have all been designed for discretion, comfort and control.

COMFORT

Fresh air inlet

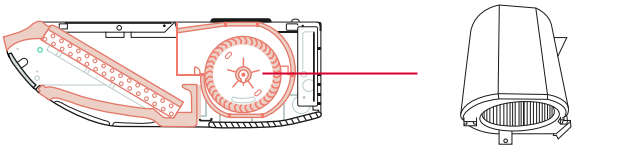
Allows fresh air intake to improve indoor ventilation and air quality.

- **Fresh air inlet**



Plastic Fan housing

Plastic fan housing can reduce the noise level effectively.



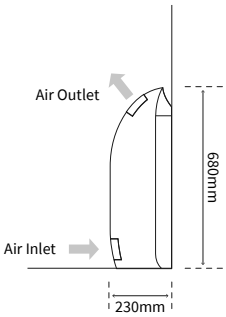
Plastic Fan housing

DESIGN FLEXIBILITY

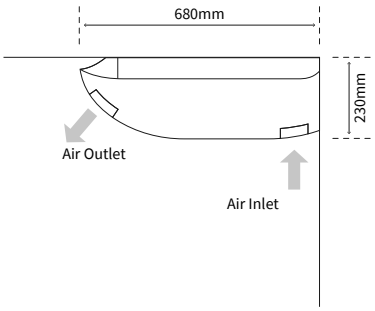
Installation on Floor or Ceiling

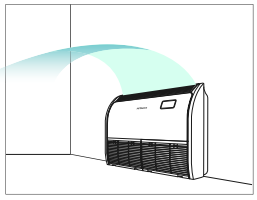
A unit that can functional equally well after floor installation or suspended ceiling installation can adapt to many different room layouts, business types or living spaces.

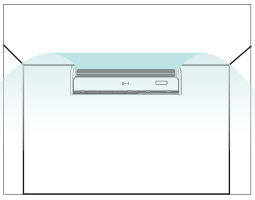
Installation on Floor



Installation on Ceiling

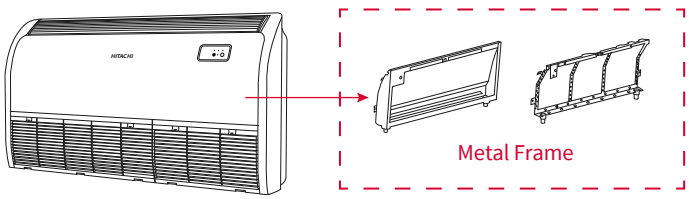






Metal frame of drain pan

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.




HITACHI

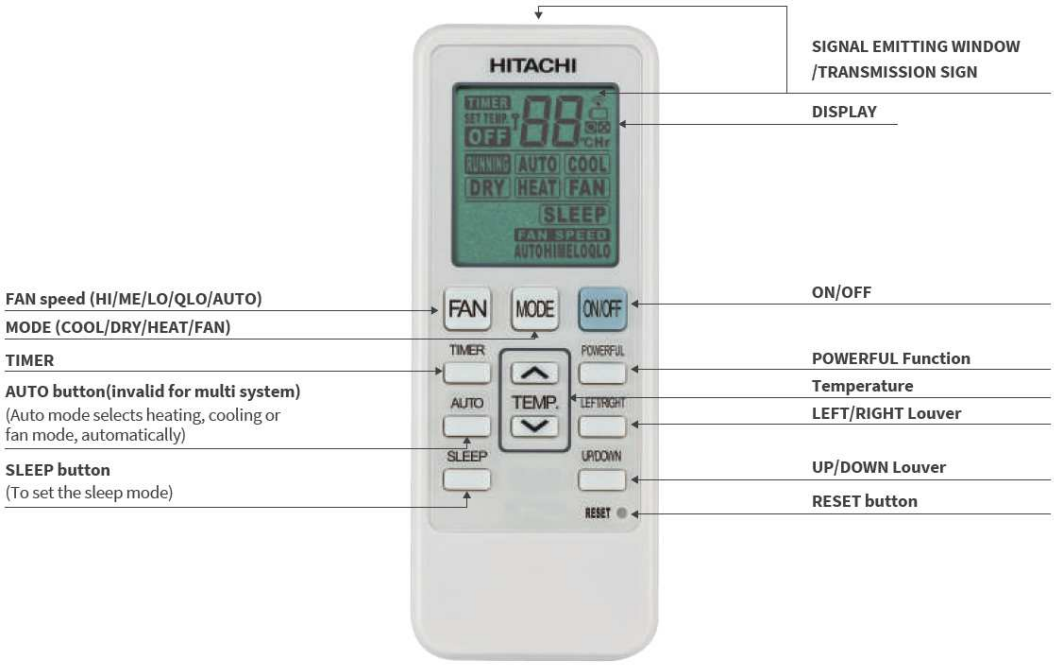
Controllers

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 to let you direct the unit instantly. Matching the Wired Control Point is a classic LCD display with each working element represented in one frame. The Remote uses a minimum of power and will function well with a single battery for a long period before requiring a replacement.

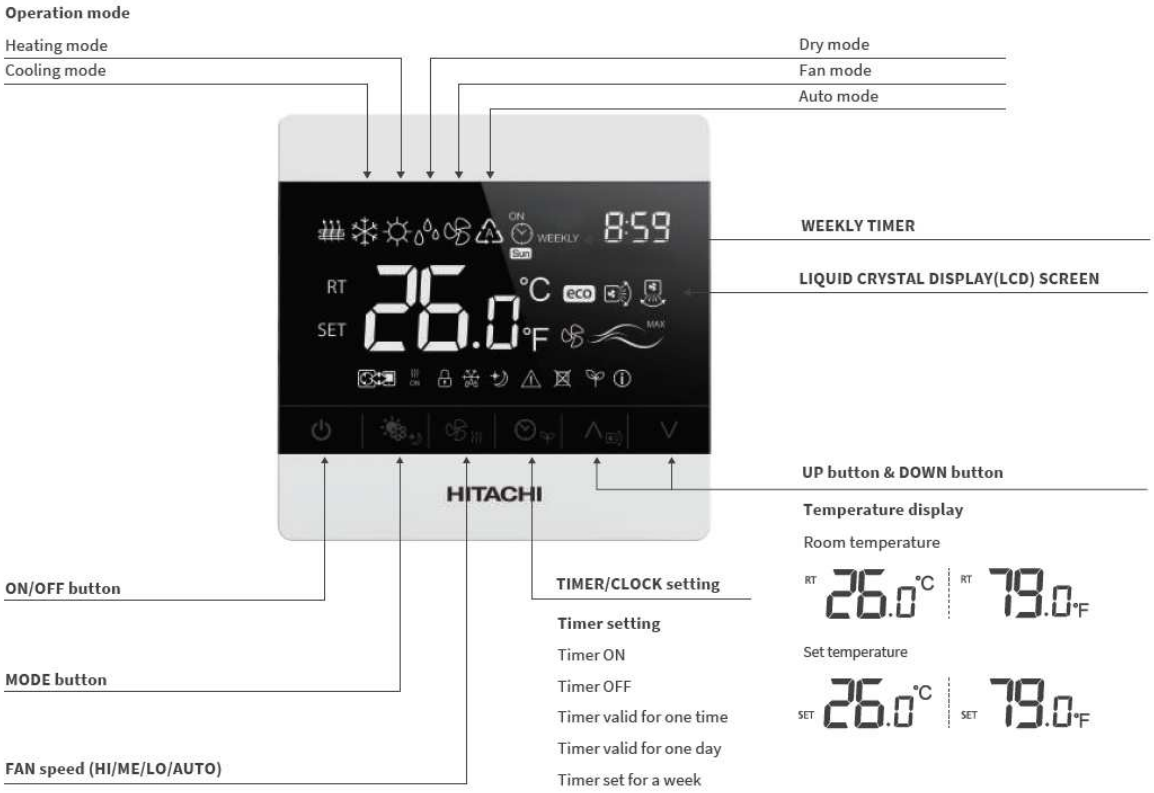
HCRA31NEWH



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.

HCWA21NEWH



Specifications

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

SPECIFICATIONS

CASSETTE

IDU			RCI-B13TNT1NH	RCI-B18TNT1NH	RCI-B24TNT1NH
ODU			RAS-B13TNTBNH1	RAS-B18TNTBNH1	RAS-B24TNTBNH1
Power supply (Outdoor)		V/Ph/Hz	220/1/50	220/1/50	220/1/50
Max. input consumption		W	1,800	2,710	4,100
Max. input current		A	8.1	12.3	18.1
Cooling	Capacity	Btu/h	12,283	18,083	25,590
	Capacity range	Btu/h	5,869~13,136	6,073~19,278	9,212~26,784
	Capacity	W	3,600	5,300	7,500
	Capacity range	W	1,720~3,850	1,780~5,650	2,700~7,850
	Input Power	W	975	1,650	2,356
	Current	A	4.70	7.90	11.30
	COP	W/W	3.69	3.21	3.18
	SEER		20.00	17.35	18.62
Indoor fan motor	Qty		1	1	1
	Input	W	30	28	35
	Capacitor	μF	/	2	/
	Speed (Hi/Med/Lo)	r/min	700/590/520	980/840/720	450/390/270
Indoor air flow Rated (Hi/Med/Lo)		m^3/h	575/484/400	820/730/620	1,100/976/852
		CFM	338/285/235	482/429/365	647/574/501
Indoor noise level	Sound pressure (Hi/Med/Lo)	dB(A)	39/37/33	45/41/38	43/40/36
	Sound power	dB(A)	54	59	57
Indoor unit	Dimension (W×H×D)	mm	650×270×570	650×270×570	840×248×840
	Packing (W×H×D)	mm	770×310×750	770×310×750	996×370×956
	Net/Gross weight	kg	19/24	21/26	25/34
Drainage water pipe diameter		mm	IDΦ21	IDΦ21	IDΦ32
Controller			Remote controller	Remote controller	Remote controller
Operation temperature		°C	16~30	16~30	16~30
Qty'per 20' /40' /40'HQ (Indoor unit)		Set	147/315/384	147/315/384	72/144/168
Compressor	Type		ROTARY	ROTARY	ROTARY
	Rated current (RLA)	A	5.7	8.1	8.9
	Refrigerant oil	type/ml	ESTER OIL VG74/370	ESTEL OIL VVG74/500	POE VG74/670
Outdoor fan motor	Qty		1	1	1
	Input	W	30	61	61
	Speed (Hi)	r/min	880	840	880
Outdoor noise level	Sound pressure (Hi)	dB(A)	51	54	53
	Sound power	dB(A)	62	65	68
Throttle type			Electrical Expansion Valve	Electrical Expansion Valve	Electrical Expansion Valve
Outdoor unit	Dimension (W×H×D)	mm	810×585×280	860×670×310	860×670×310
	Packing (W×H×D)	mm	940×640×420	990×730×450	990×730×450
	Net/Gross weight	kg	34/38.5	45/49	51/57
Refrigerant	Type		R410A	R410A	R410A
	Charged volume	kg	1.05	1.30	1.70
Refrigerant piping	Liquid side/Gas side	mm(inch)	Φ6.35/Φ9.52(1/4'/3/8')	Φ6.35/Φ12.7(1/4'/1/2')	Φ9.52/Φ15.88(3/8'/5/8')
	Max. pipe length	m	25	30	50
	Max. difference in level	m	15	15	30
Ambient temperature	Cooling	°C	-15~+48	-15~+48	-15~+48
Qty'per 20' /40' /40'HQ (Outdoor unit)		Set	102/204/272	90/186/186	90/186/186

Note :
1. EGAT No.5 Certificate for capacity not over 12,000 Watt (40,944 Btu/hr).
2. TIS2134-2553 Certificate for capacity not over 12,000 Watt (40,944 Btu/hr).
3. Product design and specification are subject to change without notice.

Nominal testing conditions:
Cooling - Indoor 80.6°F DB / 66.2°F WB (27°C DB / 19°C WB) & Outdoor 95°F DB / 75.2°F WB (35°C DB / 24°C WB)

RCI-B36TNT1NH RAS-B36TNTBNH1	RCI-B42TNT1NH RAS-B42TNTBMH1	RCI-B48TNT1NH RAS-B48TNTBMH1	RCI-B55TNT1NH RAS-B55TNTBMH1
220/1/50	380/3/50	380/3/50	380/3/50
5,150	6,400	6,300	7,800
22.5	11.6	11.0	13.1
34,461	41,626	46,744	52,715
9,997~40,944	11,260~45,038	11,601~55,274	16,991~61,416
10,100	12,200	13,700	15,450
2,930~12,000	3,300~13,200	3,400~16,200	4,980~18,000
3,365	4,207	5,352	6,255
16.10	7.10	10.0	10.70
3.00	2.90	2.56	2.47
16.49	16.00	14.40	15.00
1	1	1	1
80	124	124	124
/	/	/	/
600/480/390	630/600/570	700/540/460	700/540/460
1,600/1,300/1,000	1,850/1,700/1,550	2,000/1,900/1,700	2,000/1,900/1,700
941/765/588	1,088/1,000/912	1,180/1,120/1,000	1,180/1,120/1,000
49/45/42	50/46/45	52/45/41	52/46/44
61	62	64	62
840×248×840	840×298×840	840×298×840	840×298×840
996×370×956	996×420×956	996×420×956	996×420×956
27/36	32/41	32/41	32/41
IDΦ32	IDΦ32	IDΦ32	IDΦ32
Remote controller	Remote controller	Remote controller	Remote controller
16~30	16~30	16~30	16~30
60/120/144	60/120/144	60/120/144	60/120/144
ROTARY	ROTARY	ROTARY	ROTARY
5.1	5.1	13.2	12.0
PQE VG74/1,000	PQE VG74/1,000	α 68HES-H or equivalent/1,650	FV50S or PVE/1,400
1	1	2	2
121	138	121	121
830	850	810	810
56	58	56	57
70	74	69	73
Electrical Expansion Valve	Electrical Expansion Valve	Electrical Expansion Valve	Electrical Expansion Valve
950×840×340	950×1,050×340	950×1,386×340	950×1,386×340
1,110×910×460	1,110×1,200×460	1,110×1,530×460	1,110×1,530×460
70/80	85/95	113/125	117/129
R410A	R410A	R410A	R410A
2.80	3.20	3.78	3.95
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')
50	50	50	50
30	30	30	30
-15~+48	-15~+48	-15~+48	-15~+48
52/106/106	26/53/106	26/53/53	26/53/53

SPECIFICATIONS

DUCTED

IDU			RPIL-B09TNT1NH	RPIL-B13TNT1NH	RPIL-B18TNT1NH
ODU			RAS-B09TNTBNH1	RAS-B13TNTBNH1	RAS-B18TNTBNH1
Power supply (Outdoor)		V/Ph/Hz	220/1/50	220/1/50	220/1/50
Max. input consumption		W	1,140	1,800	2,460
Max. input current		A	7.8	8.1	11.1
Cooling	Capacity	Btu/h	9,212	11,942	18,083
	Capacity range	Btu/h	4,845~11,600	5,868~13,136	4,777~20,472
	Capacity	W	2,700	3,500	5,300
	Capacity range	W	1,420~3,400	1,720~3,850	1,400~6,000
	Input Power	W	771	1,017	1,650
	Current	A	3.7	4.9	7.9
	COP	W/W	3.50	3.44	3.21
	SEER		18.26	18.01	17.50
Indoor fan motor	Qty		1	1	1
	Input	W	40	40	40
	Capacitor	μF	/	/	2
	Speed (Hi/Med/Lo)	r/min	770/640/540	880/740/610	1,130/950/850
Indoor air flow Rated (Hi/Med/Lo)		m^3/h	500/400/320	575/484/400	900/840/730
		CFM	294/235/188	338/285/235	529/494/429
ESP	Rated	Pa	25	25	25
	Range	Pa	0~50	0~50	10/30
Indoor noise level	Sound pressure (Hi/Med/Lo)	dB(A)	33/29/26	34/30/27	35/33/31
	Sound power	dB(A)	46	50	57
Indoor unit	Dimension (W×H×D)	mm	900×190×447	900×190×447	1,170×190×447
	Packing (W×H×D)	mm	1,070×236×580	1,070×236×580	1,340×236×580
	Net/Gross weight	kg	19/23.5	19/23.5	24/29
Drainage water pipe diameter		mm	ODΦ32	ODΦ32	ODΦ32
Controller			Wired controller	Wired controller	Wired controller
Operation temperature		°C	16~30	16~30	16~30
Qty'per 20' /40' /40'HQ (Indoor unit)		Set	200/440/484	200/440/484	160/340/374
Compressor	Type		ROTARY	ROTARY	ROTARY
	Rated current (RLA)	A	2.95	5.70	8.10
	Refrigerant oil	type/ml	α68HES-H/320	ESTER OIL VG74/370	ESTEL OIL VG74/500
Outdoor fan motor	Qty		1	1	1
	Input	W	30	30	61
	Speed (Hi)	r/min	820	880	840
Outdoor noise level	Sound pressure (Hi)	dB(A)	50	51	54
	Sound power	dB(A)	65	62	65
Throttle type			Electrical Expansion Valve	Electrical Expansion Valve	Electrical Expansion Valve
Outdoor unit	Dimension (W×H×D)	mm	730×536×260	810×585×280	860×670×310
	Packing (W×H×D)	mm	860×600×400	940×640×420	990×730×450
	Net/Gross weight	kg	31/34	34/38.5	45/49
Refrigerant	Type		R410A	R410A	R410A
	Charged volume	kg	0.83	1.05	1.3
Refrigerant piping	Liquid side/Gas side	mm(inch)	Φ6.35/Φ9.52(1/4'/3/8')	Φ6.35/Φ9.52(1/4'/3/8')	Φ6.35/Φ12.7(1/4'/1/2')
	Max. pipe length	m	25	25	30
	Max. difference in level	m	10	15	15
Ambient temperature	Cooling	°C	-15~+48	-15~+48	-15~+48
Qty'per 20' /40' /40'HQ (Outdoor unit)		Set	102/213/292	102/204/272	90/186/186

Note :
1. EGAT No.5 Certificate for capacity not over 12,000 Watt (40,944 Btu/hr).
2. TIS2134-2553 Certificate for capacity not over 12,000 Watt (40,944 Btu/hr).
3. Product design and specification are subject to change without notice.

Nominal testing conditions:
Cooling - Indoor 80.6°F DB / 66.2°F WB (27°C DB / 19°C WB) & Outdoor 95°F DB / 75.2°F WB (35°C DB / 24°C WB)

RPIM-B24TNT1NH RAS-B24TNTBNH1	RPIH-B36TNT1NH RAS-B36TNTBNH1	RPIH-B42TNT1NH RAS-B42TNTBMH1	RPIH-B48TNT1NH RAS-B48TNTBMH1	RPIH-B55TNT1NH RAS-B55TNTBMH1
220/1/50	220/1/50	380/3/50	380/3/50	380/3/50
4,100	5,100	6,400	7,000	7,800
18.1	22.5	11.6	12.0	13.1
22,178	33,778	41,626	46,744	52,715
9,212~26,784	9,997~40,944	11,260~45,038	10,918~54,592	16,992~61,416
6,500	9,900	12,200	13,700	15,450
2,700~7,850	2,930~12,000	3,300~13,200	3,400~16,200	4,980~18,000
2,123	3,250	4,357	5,480	6,492
10.2	15.6	7.8	9.8	11.2
3.06	3.05	2.80	2.50	2.38
16.50	17.55	15.94	15.00	14.45
1	1	1	1	1
95	250	250	250	250
/	/	/	/	/
890/790/690	800/700/600	910/810/710	1,100/1,000/900	1,100/1,000/900
1,100/976/852	1,450/1,250/1,050	1,750/1,500/1,300	2,400/2,200/1,900	2,400/2,200/1,900
647/574/501	853/735/618	1,029/882/765	1,294/1,206/1,118	1,415/1,300/1,124
25	35	50	50	50
0~80	0~120	0~120	0~120	0~120
38/36/34	39/36/35	41/39/35	46/43/40	46/43/40
58	62	67	70	72
900×270×720	1,300×350×800	1,300×350×800	1,300×350×800	1,300×350×800
1,170×340×870	1,550×410×940	1,550×410×940	1,550×410×940	1,550×410×940
32/37	51/60	51/60	51/60	51/60
ODΦ32	ODΦ32	ODΦ32	ODΦ32	ODΦ32
Wired controller	Wired controller	Wired controller	Wired controller	Wired controller
16~30	16~30	16~30	16~30	16~30
84/182/182	35/75/90	35/75/90	35/75/90	35/75/90
ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
8.90	5.10	5.10	13.20	12.00
POE VG74/670	PQE VG74/1,000	PQE VG74/1,000	α 68HES-H or equivalent /1,650	FV50S or PVE/1,400
1	1	1	2	2
61	121	138	121	121
880	830	850	810	810
53	56	58	56	57
68	70	74	69	73
Electrical Expansion Valve	Electrical Expansion Valve	Electrical Expansion Valve	Electrical Expansion Valve	Electrical Expansion Valve
860×670×310	950×840×340	950×1,050×340	950×1,386×340	950×1,386×340
990×730×450	1,110×910×460	1,110×1,200×460	1,110×1,530×460	1,110×1,530×460
51/57	70/80	85/95	113/125	117/129
R410A	R410A	R410A	R410A	R410A
1.7	2.8	3.2	3.78	3.95
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')
50	50	50	50	50
30	30	30	30	30
-15~+48	-15~+48	-15~+48	-15~+48	-15~+48
90/186/186	52/106/106	26/53/106	26/53/53	26/53/53

SPECIFICATIONS

FLOOR CEILING CONVERTIBLE

IDU			RPFC-B18TNT1NH	RPFC-B24TNT1NH	RPFC-B30TNT1NH
ODU			RAS-B18TNTBNH1	RAS-B24TNTBNH1	RAS-B30TNTBNH1
Power supply (Outdoor)		V/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50
Max. input consumption		W	2,600	4,100	5,100
Max. input current		A	11.0	18.1	22.5
Cooling	Capacity	Btu/h	17,401	24,225	30,708
	Capacity range	Btu/h	5,152~18,766	9,212~26,784	9,554~37,532
	Capacity	W	5,100	7,100	9,000
	Capacity range	W	1,510~5,500	2,700~7,850	2,800~11,000
	Input Power	W	1,570	2,318	2,908
	Current	A	7.5	11.1	13.9
	COP	W/W	3.25	3.06	3.09
	SEER		17.49	15.68	16.49
Indoor fan motor	Qty		1	1	1
	Input	W	100	100	140
	Speed (Hi/Med/Lo)	r/min	800/700/610	1,280/1,100/920	1,220/1,160/1,080
Indoor air flow Rated (Hi/Med/Lo)		m^3/h	800/690/590	1,100/950/800	1,700/1,500/1,300
		CFM	470/400/340	650/570/500	1,000/882/765
Indoor noise level	Sound pressure (Hi/Med/Lo)	dB(A)	41/37/34	51/48/45	52/51/49
	Sound power	dB(A)	57	63	64
Indoor unit	Dimension (W×H×D)	mm	990×230×680	990×230×680	1,285×230×680
	Packing (W×H×D)	mm	1,100×350×820	1,100×350×820	1,400×350×820
	Net/Gross weight	kg	29/34	30/35	37/44
Drainage water pipe diameter		mm	ODΦ25	ODΦ25	ODΦ25
Controller			Remote controller	Remote controller	Remote controller
Operation temperature		°C	16 - 30	16 - 30	16 - 30
Qty'per 20' /40' /40'HQ (Indoor unit)		Set	84/168/196	84/168/196	42/84/98
Compressor	Type		ROTARY	ROTARY	ROTARY
	Rated current (RLA)	A	8.1	8.9	5.1
	Refrigerant oil	type/ml	ESTEL OIL VG74/500	POE VG74/670	PQE VG74/1,000
Outdoor fan motor	Qty		1	1	1
	Input	W	61	61	121
	Speed (Hi)	r/min	840	880	830
Outdoor noise level	Sound pressure (Hi)	dB(A)	54	53	56
	Sound power	dB(A)	65	68	70
Throttle type			Electrical Expansion Valve	Electrical Expansion Valve	Electrical Expansion Valve
Outdoor unit	Dimension (W×H×D)	mm	860×670×310	860×670×310	950×840×340
	Packing (W×H×D)	mm	990×730×450	990×730×450	1,110×910×460
	Net/Gross weight	kg	45/49	51/57	70/80
Refrigerant	Type		R410A	R410A	R410A
	Charged volume	kg	1.30	1.70	2.80
Refrigerant piping	Liquid side/Gas side	mm(inch)	Φ6.35/Φ12.7(1/4'/1/2')	Φ9.52/Φ15.88(3/8'/5/8')	Φ9.52/Φ19.05(3/8'/3/4')
	Max. pipe length	m	30	50	50
	Max. difference in level	m	15	30	30
Ambient temperature	Cooling	°C	-15~+48	-15~+48	-15~+48
Qty'per 20' /40' /40'HQ (Outdoor unit)		Set	90/186/186	90/186/186	52/106/106

Note :
1. EGAT No.5 Certificate for capacity not over 12,000 Watt (40,944 Btu/hr).
2. TIS2134-2553 Certificate for capacity not over 12,000 Watt (40,944 Btu/hr).
3. Product design and specification are subject to change without notice.

Nominal testing conditions:
Cooling - Indoor 80.6°F DB / 66.2°F WB (27°C DB / 19°C WB) & Outdoor 95°F DB / 75.2°F WB (35°C DB / 24°C WB)

RPFC-B36TNT1NH RAS-B36TNTBNH1	RPFC-B42TNT1NH RAS-B42TNTBMH1	RPFC-B48TNT1NH RAS-B48TNTBMH1	RPFC-B55TNT1NH RAS-B55TNTBMH1
220~240/1/50	380~415/3/50	380~415/3/50	380~415/3/50
5,100	6,400	6,300	8,200
22.5	11.6	11.0	13.5
34,802	43,332	47,085	52,033
10,236~40,944	11,260~45,038	10,577~54,933	16,991~61,416
10,200	12,700	13,800	15,250
3,000~12,000	3,300~13,200	3,100~16,100	4,980~18,000
3,296	4,534	5,520	6,462
15.8	7.7	10.0	11.0
3.09	2.80	2.50	2.36
16.49	15.50	14.15	15.30
1	1	1	1
181	181	181	181
1,200/1,100/1,000	1,200/1,100/1,000	1,250/1,000/800	1,250/1,100/950
2,000/1,800/1,600	2,000/1,800/1,600	2,000/1,600/1,200	2,000/1,700/1,500
1,176/1,059/941	1,176/1,059/941	1,180/940/710	1,180/1,000/880
52/50/47	52/50/47	53/48/42	53/50/47
66	66	67	66
1,580×230×680	1,580×230×680	1,580×230×680	1,580×230×680
1,690×350×820	1,690×350×820	1,690×350×820	1,690×350×820
48/56	48/56	48/56	50/58
ODΦ25	ODΦ25	ODΦ25	ODΦ25
Remote controller	Remote controller	Remote controller	Remote controller
16 - 30	16 - 30	16 - 30	16 - 30
42/84/98	42/84/98	42/84/98	42/84/98
ROTARY	ROTARY	ROTARY	ROTARY
5.1	5.1	13.2	12.0
PQE VG74/1,000	PQE VG74/1,000	α 68HES-H or equivalent/1,650	FV50S or PVE/1,400
1	1	2	2
121	138	121	121
830	850	810	810
56	58	56	57
70	74	69	73
Electrical Expansion Valve	Electrical Expansion Valve	Electrical Expansion Valve	Electrical Expansion Valve
950×840×340	950×1,050×340	950×1,386×340	950×1,386×340
1,110×910×460	1,110×1,200×460	1,110×1,530×460	1,110×1,530×460
70/80	85/95	113/125	117/129
R410A	R410A	R410A	R410A
2.80	3.20	3.78	3.95
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')
50	50	50	50
30	30	30	30
-15~+48	-15~+48	-15~+48	-15~+48
52/106/106	26/53/106	26/53/53	26/53/53

Johnson Controls

HITACHI
Air conditioning solutions

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CERTIFICATION

TIS.2134-2553

EGAT NO.5

GB/T 19001-2016 / ISO 9001:2015
Hisense (Shandong) Air Conditioning Co.,Ltd.
[Quality Management Systems Certificate]
Certificate No. 00119Q30316R2M/3700

GB/T 24001-2004 / ISO 14001:2004
Hisense (Shandong) Air Conditioning Co.,Ltd.
[Environmental Management Systems Certificate]
Certificate No. 06316E20003R6M

GB/T 28001-2011
Hisense (Shandong) Air Conditioning Co.,Ltd.
[Occupational Health and Safety Management Systems Certificate]
Certificate No. : 06316S20007R6M

Line ID : @hitachiairservice

WARANTY

1 YEAR — WARANTY

7 YEARS — COMPRESSOR

TNTBN(M)H1-C-1901