GENERAL CATALOGUE

2023

Residential
Commercial
Project VRF
Heating

HOKKAIDO

Experience makes technology

HOKKAIDO

Experience makes technology

GENERAL CATALOGUE HOKKAIDO 2023

Hokkaido, a leading company in the air conditioning market in Italy and Europe, stands apart for its ability to meet all supply requests, satisfying even the most demanding customers. Hokkaido is part of the Termal Group.

Our own brand products are known for their excellent value for money and for their reliability. The extent of the range offered, before and after sales services, and direct logistics management are the strengths of Hokkaido.

HOKKAIDO

TECHNOLOGY AND PROFESSIONALISM **AT YOUR SERVICE**

Providing reliable products at a high value, Hokkaido perfects the world of air conditioning.

In order to meet the needs of the distribution industry, we offer air conditioning systems that are energy efficient and cost-effective.

In order to meet the needs of every environment, Hokkaido air conditioners are available in a variety of styles and sizes.

Professionals choose Hokkaido air conditioning systems for their ease of installation, energy efficiency, and quiet operation.


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EXPERIENCE MAKES **TECHNOLOGY**

OVER TWENTY YEARS OF EXPERIENCE

The Hokkaido brand is a recognized leader in Italy and Europe in the air conditioning sector for residential, commercial and industrial applications. Its success has been built step by step over the past twenty years of business.

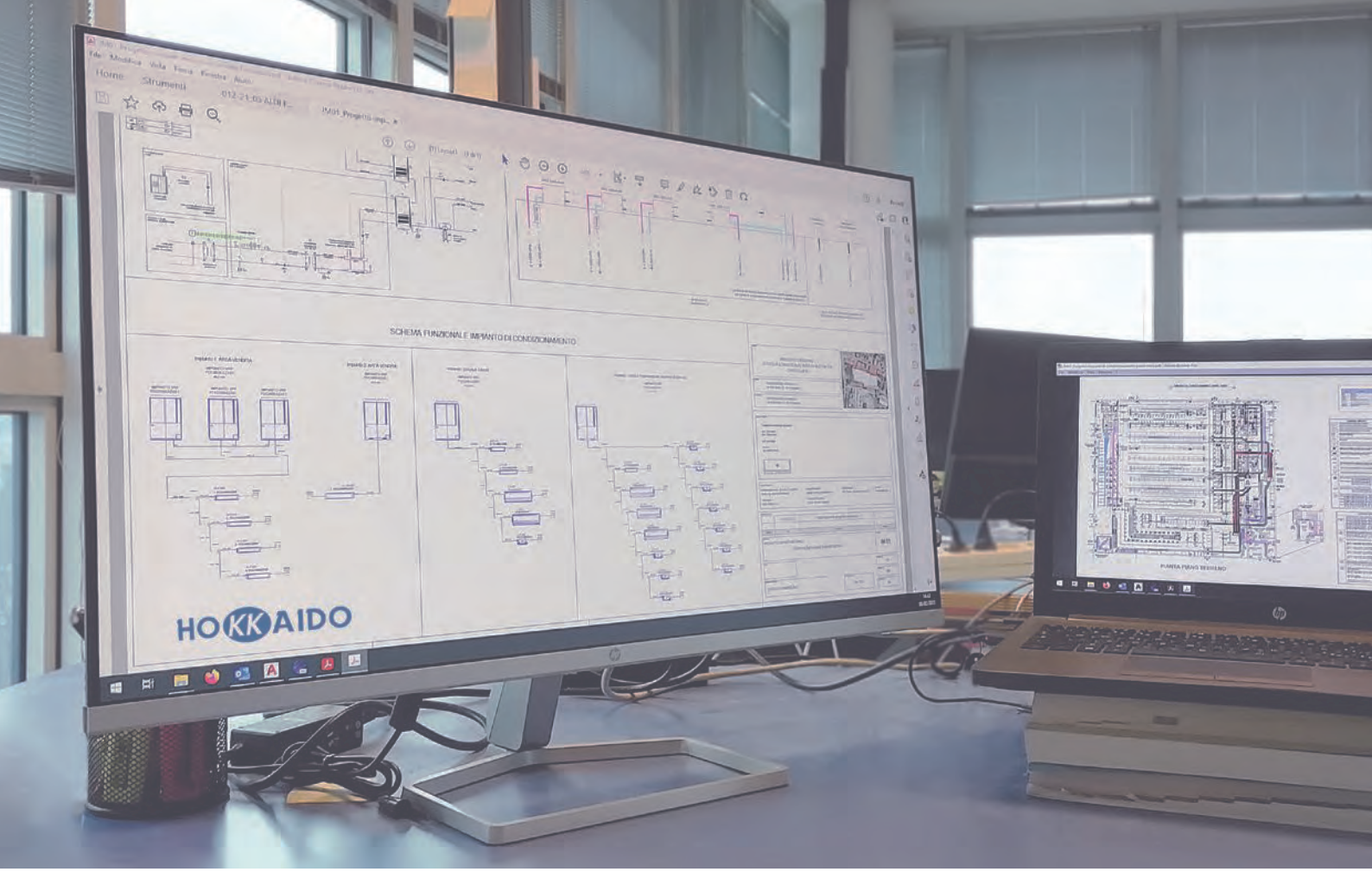
The origins of the Hokkaido brand date back to the end of 1998, the year in which the Termal Group started the distribution of a selection of products for residential air conditioning, whose affordable value was strongly perceived by the market. The distribution of Hokkaido products became widespread immediately throughout Italy, through the channel of professional installers and the national network of consumer electronics shops.

AN INTERNATIONAL BUSINESS

Starting from the early 2000s, its international network of dealers and partner distributors developed quickly thanks mainly to the variety and reliability of services offered, thus strengthening the business development strategy of the Hokkaido brand in international markets.

HOKKAIDO: AN **EVER-INCREASING** RANGE OF SERVICES

- *Wide range*
- *Excellent value for money*
- *Integrated logistics*
- *Quick deliveries throughout the EU*
- *Vast assortment of spare parts that can be ordered online and are available in 48 hours*



ASSISTANCE AND **DESIGN**

THE CLIENT AT THE CENTRE

Hokkaido provides technical and design support for its products through a team of specialised technicians and designers.

As a point of reference, our technicians can provide advice on the following topics:

- sizing of systems;
- installation and use;
- cost estimates.

The budgeting and design of the plant are carried out using specialized software in order to maximise plant efficiency and reduce installation costs.

THE **DISTRIBUTOR** NETWORK

THE HOKKAIDO DISTRIBUTOR NETWORK

Hokkaido products are distributed on the Italian as well as international markets through specialised distribution networks and an integrated logistics service.

Hokkaido has all the experience and resources needed to provide high-tech, versatile heating, cooling, and hot water solutions for our customers.

Visit the official website **www.hokkaido.it**

ADVANCED LOGISTICS

ONLINE SPARE PARTS AVAILABLE WITHIN 48 HOURS

The origins of the Hokkaido brand date back to the end of 1998, the year in which the Termal Group started the distribution of a selection of products for residential air conditioning, whose *affordable* value was strongly perceived by the market. The distribution of Hokkaido products became widespread immediately throughout Italy, through the channel of professional installers and the national network of consumer electronics shops.

OUR HEADQUARTERS

The company's headquarters is in Bologna at the operational centre of Termal Group, to which it belongs. This modern building (4,000 square metres of offices and 4,500 square metres of product storage area) is the operational centre of all commercial, logistic and administrative activities.

This centre also brings together service operations and technical-commercial training, managed directly to ensure the highest quality standards. The factory, set in a strategic position with respect to the airport and the motorway, is designed according to modern architectural concepts both with regards to logistics.

VOCATIONAL **TRAINING**

TRAINING & PROFESSIONAL REFRESHER COURSES

Hokkaido believes that training is very important for the professional development of its customers. To this end, it organises training modules for learning, updating and technical improvement.

The Academy Centre, located in Bologna, consists of classrooms dedicated to theoretical lessons and classrooms for demonstration and practical lessons. Operating systems of the different families of air conditioning products are installed in these classrooms with their corresponding control devices.

The courses meet the training needs of various users regarding installation and the assistance and maintenance of residential, commercial, VRF and hydronic systems.

Training courses are always updated according to the new ranges, the technological evolution of products and the regulatory changes in the sector:

- Refrigerant circuit
- Installation problems
- Fault diagnostics
- Assistance
- Design of systems with variable capacities
- Use of software for sizing XRV systems

At the end of each course, participants receive an attendance certificate and handouts related to the technical topics dealt with.


HOKKAIDO

HOKKAIDO

GENERAL INDEX 2023

RESIDENTIAL & COMMERCIAL R32

RESIDENTIAL AND COMMERCIAL R32, WELL-BEING FOR YOUR HOME

The most demanding customers, attentive to technological developments their benefits and respect for the eviroment, will find a practical solution in the new **RESIDENTIAL AND COMMERCIAL R32** line, which offers a selection of the best the market has to offer for residential installations.

R32 WELL-BEING FOR **PEOPLE AND THE PLANET**

THE ADVANTAGES OF R32

In this day and age, environmental protection is considered by both users and professionals to be of the utmost importance. Choosing an air conditioner with the new R32 refrigerant helps achieve excellent comfort in both cooling and heating, reducing polluting emissions.

The most relevant aspect of the R32 gas is its 675 GWP value, which makes it possible to create systems containing up to 7 kg of gas without exceeding the threshold requiring a characteristic leakage control, keeping of the equipment register; a threshold that for a R410A gas has already been surpassed by 2.4 kg of gas.

- Environmentally friendly.
- **Non-toxic**.
- Slightly flammable.
- Not harmful and does not present risks to the ozone.
- Very efficient.

WHY CHOOSE R32?

The specific name of R32 gas is difluoromethane. Currently, it is present among the low-value GWP fluorinated gases, equal to 675, and is used in residential use air conditioning units.

There is no requirement to replace the current R410A gas, which therefore remains regularly on the market, except in monosplit applications with refrigerant <3 kg where the use of gas with GWP<750 will be mandatory for new installations beginning in 2025.

There are certain limitations on particular conditions of use that must be considered in accordance with the regulations in force.

STORAGE, STANDARDS AND DESIGN

When storing units containing R32, it may be necessary to revise the Fire Prevention Certificate depending on the quantities stored, to guarantee the validity of its insurance coverage (Presidential Decree 151/2011). The transport of dangerous goods is regulated by Leg. Decree 35/2010. R32 has been classified as slightly flammable by ISO 817 and as such has no stringent restrictions on road transport (ADR in force), maintaining a strict regulation in maritime (IMDG in force) and aeronautical (IATA in force) transport.

The EN 378:2016 standard also regulates the applications of appliances using R32 gas. The maximum concentration limits of gas in residential applications must always be verified, with particular regard to multisplit systems that can potentially concentrate high quantities of refrigerant in small-sized environments (in case of leakage). **R32 gas is heavier than air and accumulates in the event of a leak**. Indoor units therefore follow different normative parameters depending on the type of application.

Installation in public buildings is regulated by specific standards concerning the application of appliances with flammable gases, such as: Min. Decree for Hotels 09/04/1994, Min. Decree for shopping centres 27/07/2010, Min. Decree for buildings for public entertainment 19/08/1996, Min. Decree for hospitals 18/09/2012, Min. Decree for schools 26/08/1992, Min. Decree for offices 22/02/2006, Min. Decree for games for children 16/07/2014, Min. Decree for airports 07/07/2014, Min. Decree for interports 18/07/2014.

The design, installation and maintenance of appliances with R32 gas are regulated by the following standards: Ministerial Decree 37/2008 provisions concerning the installation of plants inside buildings, Leg. Decree 81/2008 text on health and safety at work, F-gas 517/2014 regulation of fluorinated gases, Presidential Decree 151/2011 governing the procedures relating to fire prevention, EN 378:2016 refrigeration systems and heat pumps (requirements for plant safety).

With Ministerial Decree of 10 March 2020 and the subsequent Circular DCPREV 9833 of 22 July 2020 by the Fire Brigade, the technical provisions are updated allowing the possibility of using machines equipped with A1 or A2L classified refrigerants in air conditioning systems, thus overcoming the restriction of using only non-toxic or non-flammable fluids.

A scrupulous check of existing regulations is however recommended when using equipment containing R32 gas. Failure to comply with these regulations means that designers and installers of R32 equipment assume direct legal responsibility for application of the equipment.

CHECK YOUR AIR CONDITIONING **WHEREVER AND WHENEVER YOU WANT**

HOKKAIDO WIFI SYSTEMS HKM-WIFI | HKM-WIFI-TB

MORE COMFORT AND MORE SAVINGS

With the Hokkaido Wi-Fi apps, users can control their air conditioning unit remotely.

The available modules can be standard or optional.

FOR EXPERT SAVERS

Hokkaido Wi-Fi functions help you save money and energy. You can use the Hokkaido App to turn on the air conditioning system while you're on your way back home to gradually heat or cool it before you get there.

WIFI SYSTEMS FOR ALL NEEDS

Hokkaido provides of different Wi-Fi systems that can be controlled from the same app, depending on the type of indoor unit chosen by the user:

- **HKM-WIFI**: for residential wall-mounted indoor units.
- **HKM-WIFI-TB**: for commercial indoor units slim cassette.

Download app

Available for Android devices from the Google Play Store.

Available for iOS devices from the Apple App Store.

LINE UP R32 MONOSPLIT

	kW	2.60	3.50	5.30	7.10	10.80	14.00	16.00
ARASHI								
Wall		HKETM ZAL-1	HKETM ZAL-1	HKETM ZAL-1	HKETM ZAL-1			
ACTIVE LINE								
Wall		HKEU ZAL	HKEU ZAL-1	HKEU ZAL				
COMMERCIAL								
Compact cassette			HTFU ZAL	HTFU ZAL				
Slim cassette 84x84					HTBI ZA	HTBI ZA	HTBI ZA	HTBI ZA
Console			HFIU ZAL	HFIU ZAL				
Ducted with medium static pressure			HUCU ZAL	HUCU ZAL	HUCI ZA	HUCI ZA	HUCI ZA	HUCI ZA
Floor/ceiling				HSFU ZAL	HSFI ZA1	HSFI ZA1	HSFI ZA1	HSFI ZA1
Outdoor units wall ARASHI								
Outdoor units wall ACTIVE Outdoor units commercial								

Performance and consumption are based on the following test conditions:
O.T. heating 7° C DB, 6° C WB - I.T. 20° C DB. Cooling: O.T. 35° C DB, 24° C WB - I.T. 27° C DB, 19° C WB (ISO T1).

BREATHE CLEAN AIR IN YOUR HOME

ARASHI is equipped with a combined action filter system.

6-in-1 filtration system

Generates the following combined effects:

- o purifies and deodorises the air (photocatalysis);
- o filters out pollen, bacteria and odours (activated carbon);
- o purifies and prevents the spread of viruses and bacteria thanks to the green tea properties (catechin);
- o eliminates 90% of bacteria (silver ions);
- o eliminates harmful dust (anti-dust);
- o has an antioxidant effect (vitamin C).

HD (high density) filter

Located on top of the unit, easily removed from its housing, it traps dust and hair. Easy to clean.

B.I.G. Care system

This bipolar system is built into the ARASHI unit to generate and distribute active ions in the air. The ions remove allergens, pollen, mould, smoke, unpleasant odours and dust. The ionised air neutralises germs, viruses and bacteria.

Self-Clean function

This remote control-activated function self-cleans the heat exchanger, drying it of any residual condensation. It prevents the formation of mould and unpleasant odours. The unit sterilization process is carried out at 56°C, guaranteeing the neutralisation of 93.18% of the bacteria inside.

ARASHI

EFFECTIVE AGAINST VIRUSES AND BACTERIA

>98.66%

The UVC sterilization system can inactivate and reduce the concentration of bacteria by up to 98.66% in 1 hour.

UVC sterilization

ARASHI is equipped with a UVC sterilization system that uses ultraviolet rays to neutralise airborne viruses and bacteria.

Neutralises viruses and bacteria damaging their proteins and DNA.

UVC RADIATION frequency 240/280 nm.

Scientific research has proven that COVID-19, as well as many other viruses, is vulnerable to ultraviolet radiation (UV). The new Hokkaido model, ARASHI, emits UV radiations to one side of the exchanger. The continuous stream of air through the exchanger allows therefore to reduce the quantity of viruses and bacteria in the environment.

ARASHI, EXTREMELY HIGH PERFORMANCE UNDER EXTREME CONDITIONS

SMART MANAGEMENT WITH WIFI

WIFI INCLUDED

All the functions at your fingertips with the app.

The convenience of setting the temperature when you're out, for the utmost comfort when you finally get back home.

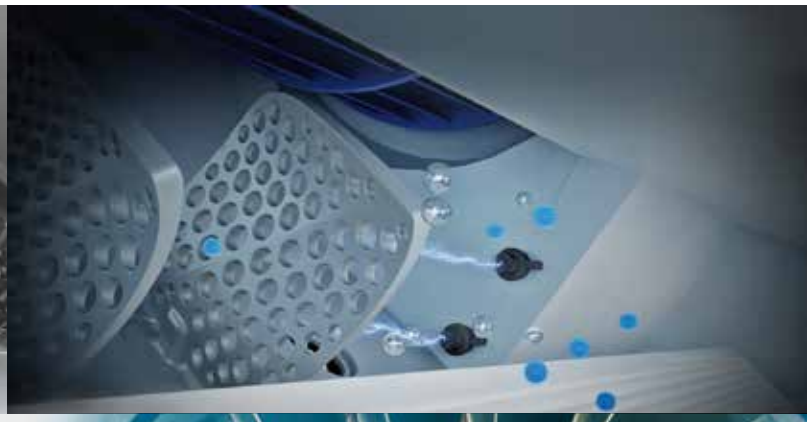
SMARTLIFE-SMARTHOME
An app that controls and manages the climate in your home, simply and intelligently. Available for Android and iOS.

Commercially available voice control device (third party).

AIR DISTRIBUTION LOUVERS

The patented technology gives new shape to the air outlet.

The characteristic leaf shape and the perforated surface ensure even, gentle air distribution throughout the room.
A cool caress in summer.



TURBO FUNCTION

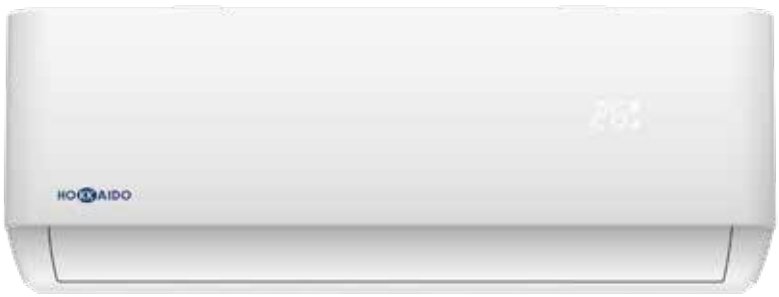
This remote control-activated function allows the desired temperature to be reached quickly even during the start-up phase, bringing the compressor to maximum frequency, thus determining a 20% increase in the volume of treated air.

ARASHI

PERFORMANCE

MODEL	SEER	SCOP
2.60 kW	6.30/A++	4.00/A+
3.40 kW	6.10/A++	4.00/A+
5.10 kW	6.10/A++	4.00/A+
6.84 kW	6.50/A++	4.00/A+

ARASHI
DC INVERTER
Wall HKETM 261-351-531-711 ZAL-1



-15~53° C in cooling
-20~30° C in heating

22 dB(A) extremely quiet (2.60/3.40) in Silent mode

5 fan speeds
Remote control included as standard

Smartlife-Smarthome
An app that simply controls and manages the climate in your home

Wi-Fi included

Indoor unit model			HKETM 261 ZAL-1	HKETM 351 ZAL-1	HKETM 531 ZAL-1	HKETM 711 ZAL-1
Outdoor unit model			HCNTS 261 ZA	HCNTS 351 ZA	HCNTS 531 ZA-1	HCNTS 711 ZA
Type			DC-Inverter heat pump			
Control (included)			Remote control			
Nominal data						
Rated capacity (T=+35°C)	Cooling	kW	2.60 (0.94~3.30)	3.40 (1.00~3.77)	5.10 (1.25~5.90)	6.84 (1.83~7.82)
Rated absorbed power (T=+35°C)		kW	0.80 (0.24~1.38)	1.05 (0.29~1.50)	1.57 (0.33~2.35)	2.10 (0.41~2.80)
Rated energy efficiency coefficient		EER[1]	3.24	3.24	3.24	3.24
Rated capacity (T=+7°C)	Heating	kW	2.63 (0.94~3.36)	3.43 (1.00~3.81)	5.13 (1.25~6.08)	7.05 (1.85~7.96)
Rated absorbed power (T=+7°C)		kW	0.71 (0.24~1.55)	0.92 (0.29~1.73)	1.38 (0.34~2.55)	1.90 (0.42~3.00)
Rated energy performance coefficient		COP[1]	3.73	3.71	3.71	3.71
Seasonal data						
Theoretical load (Pdesignc)	Cooling	kW	2.60	3.40	5.10	6.80
Seasonal energy efficiency index		SEER[2]	6.30	6.10	6.10	6.50
Seasonal energy efficiency class		626/2011[3]	A++	A++	A++	A++
Annual energy consumption		kWh/a	144	195	293	366
Theoretical load (Pdesignh) @-10°C	Heating (average climate conditions)	kW	2.10	2.40	3.80	5.70
Seasonal energy efficiency index		SCOP[2]	4.00	4.00	4.00	4.00
Seasonal energy efficiency class		626/2011[3]	A+	A+	A+	A+
Annual energy consumption		kWh/a	735	840	1330	1995
Electrical data						
Power supply	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz			
Power cable		Type	3 x 2.5 mm²		3 x 4 mm²	
Connection wires between I.U. and O.U.		no.	4	4	4	4
Absorbed current	Cooling	A	4.70 (1.20~8.00)	5.10 (1.50~9.00)	8.20 (1.70~12.00)	9.80 (2.30~13.00)
	Heating	A	4.20 (1.20~9.00)	4.70 (1.50~10.00)	7.20 (1.70~13.00)	8.60 (2.30~14.00)
Maximum current		A	9.00	10.00	13.00	14.00
Maximum absorbed power		kW	1.55	1.73	2.55	3.00
Refrigerant circuit						
Refrigerant[4]		Type (GWP)	R32 (675)			
Quantity refrigerant pre-load		Kg	0.57	0.57	1	1.11
Tons of CO2 equivalent		t	0.385	0.385	0.675	0.749
Diameter of refrigerant piping on liquid/gas		mm (inches)	6.35(1/4") / 9.52(3/8")	6.35(1/4") / 9.52(3/8")	6.35(1/4") / 9.52(3/8")	6.35(1/4") / 12.7(1/2")
Max splitting length		m	25	25	25	25
Max height difference I.U./O.U.		m	10	10	10	10
Split length without additional charge		m	5	5	5	5
Additional load		g/m	15	15	25	25
Indoor unit specifications						
Dimensions	LxDxH	mm	790x192x275	790x192x275	920x195x306	1100x222x333
Net weight		Kg	8.5	8.5	11	14
Sound pressure level	Max	dB(A)	51	51	54	58
Sound power level	S/H/M/L/Mute	dB(A)	41/37/33/25/22	41/37/33/25/22	43/41/38/35/27	47/42/38/34/31
Treated air volume	Max	m³/h	560	560	820	1100
Outdoor unit specifications						
Dimensions	LxDxH	mm	777x290x498	777x290x498	853x349x602	920x380x699
Net weight		Kg	24	24	35	40
Sound pressure level		dB(A)	60	60	65	68
Sound power level		dB(A)	50	50	55	57
Treated air volume		m³/h	1900	1900	2600	3000
Operating limits (outside temperature)	Cooling	°C	-15~53			
	Heating	°C	-20~30			
Optional parts						
Wi-Fi module			INCLUDED			
Wired remote control			NO			
Centralized control			NO			

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

ACTIVE LINE
DC INVERTER

MONOSPLIT WALL AIR CONDITIONING UNIT

Active Line is a sober and elegant air conditioning unit that can be adapted to any type of décor. In order to adjust the temperature, the device utilizes a remote control or an optional Wi-Fi connection with an app that can be downloaded on a smartphone.

With Active Line, users can quickly reduce the temperature in summer and increase the temperature in winter, all without burdening your monthly budget. This model is appreciated for its extensive range of functions and ease of use.

OPERATION

-15~50°C
in cooling

-15~30°C
in heating

PERFORMANCE

MODEL	SEER	SCOP
2.77 kW	6.30/A++	4.00/A+
3.46 kW	6.10/A++	4.00/A+
5.27 kW	7.40/A++	4.00/A+

ACTIVE LINE
DC INVERTER

Wall HKEU 263 ZAL | HKEU 353 ZAL-1 | HKEU 533 ZAL

-15~50° C in cooling
-15~30° C in heating

Cold catalyst filter
High density filter
Self-cleaning function

Self-diagnosis function
Anti-freeze function 8° C
Refrigerant leak detection

Remote control included as standard

Wi-Fi optional

Indoor unit model			HKEU 263 ZAL	HKEU 353 ZAL-1	HKEU 533 ZAL
Outdoor unit model			HCNMX 263 ZA-1	HCNMX 353 ZA-1	HCNMX 533 ZA-1
Type			DC-Inverter heat pump		
Control (included)			Remote control		
Nominal data					
Rated capacity (T=+35°C)	Cooling	kW	2.77 (0.91~3.40)	3.46 (1.11~4.16)	5.27 (3.39~5.83)
Rated absorbed power (T=+35°C)		kW	0.77 (0.10~1.24)	1.06 (0.13~1.58)	1.55 (0.56~2.05)
Rated energy efficiency coefficient		EER[1]	3.60	3.25	3.40
Rated capacity (T=+7°C)	Heating	kW	2.93 (0.82-3.37)	3.57 (1.08~4.22)	4.97 (3.10~5.85)
Rated absorbed power (T=+7°C)		kW	0.73 (0.12~1.20)	0.96 (0.10~1.68)	1.30 (0.78~2.00)
Rated energy performance coefficient		COP[1]	4.00	3.71	3.83
Seasonal data					
Theoretical load (Pdesignc)	Cooling	kW	2.80	3.60	5.20
Seasonal energy efficiency index		SEER[2]	6.30	6.10	7.40
Seasonal energy efficiency class		626/2011[3]	A++	A++	A++
Annual energy consumption		kWh/a	156	207	246
Theoretical load (Pdesignh) @-10°C	Heating (average climate conditions)	kW	2.60	2.70	4.10
Seasonal energy efficiency index		SCOP[2]	4.00	4.00	4.00
Seasonal energy efficiency class		626/2011[3]	A+	A+	A+
Annual energy consumption		kWh/a	910	945	1435
Electrical data					
Power supply	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz		
Power cable		Type	3 x 2.5 mm^2		3 x 4 mm^2
Connection wires between I.U. and O.U.		no.	5	5	5
Absorbed current	Cooling	A	3.30 (0.40~5.40)	4.60 (0.50~6.90)	6.70 (2.40~8.90)
	Heating	A	3.20 (0.50~5.20)	4.20 (0.40~6.90)	5.60 (3.40~8.70)
Maximum current		A	10.00	10.00	13.00
Maximum absorbed power		kW	2.15	2.15	2.50
Refrigerant circuit					
Refrigerant[4]		Type (GWP)	R32 (675)		
Quantity refrigerant pre-load		Kg	0.55	0.55	1.08
Tons of CO2 equivalent		t	0.371	0.371	0.729
Diameter of refrigerant piping on liquid/gas		mm (inches)	6.35(1/4") / 9.52(3/8")	6.35(1/4") / 9.52(3/8")	6.35(1/4") / 12.7(1/2")
Max splitting length		m	25	25	30
Max height difference I.U./O.U.		m	10	10	20
Split length without additional charge		m	5	5	5
Additional load		g/m	12	12	12
Indoor unit specifications					
Dimensions	LxDxH	mm	805x194x285	805x194x285	957x213x302
Net weight		Kg	7.6	7.6	10
Sound pressure level	Hi	dB(A)	54	55	56
Sound power level	Hi/Mi/Lo	dB(A)	38.5/32/25	40.5/34.5/25	42.5/36/26
Treated air volume	Hi/Mi/Lo	m^3/h	466/360/325	540/430/314	840/680/540
Outdoor unit specifications					
Dimensions	LxDxH	mm	720x270x495	720x270x495	805x330x554
Net weight		Kg	23.2	23.2	32.7
Sound pressure level		dB(A)	62	63	63
Sound power level		dB(A)	55.5	56	56
Treated air volume	Max	m^3/h	1750	1800	2100
Operating limits (outside temperature)	Cooling	°C	-15~50		
	Heating	°C	-15~30		
Optional parts					
Wi-Fi module			HKM-WIFI		
Wired remote control			NO		
Centralized control			NO		

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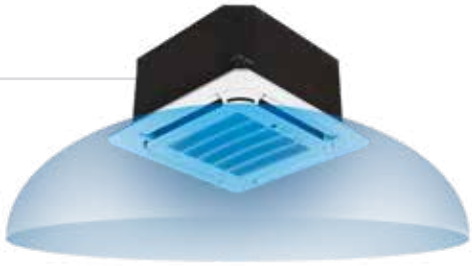
COMPACT **CASSETTE** 60x60

COMPACT TECHNOLOGY

The cassette type air conditioning units are designed for commercial premises. They can comfortably and discreetly fit in any location with a suspended ceiling and are ideal for large open spaces or irregular-shaped rooms.

360°

8-ways TFP 200 ZA panel with 360° air diffusion



OPERATION

-15~50°C
in cooling

-15~24°C
in heating

PERFORMANCE

MODEL	SEER	SCOP
3.52 kW	6.60/A++	4.10/A+
5.28 kW	6.30/A++	4.00/A+

COMPACT **CASSETTE** 60x60

HTFU 351-531 ZAL

-15~50° C in cooling
-15~24° C in heating

Condensate drain pump included with possibility of raising the discharge up to 750 mm from the lower height

Pre-set for external air inlet

Remote control included as standard

Wi-Fi optional

Indoor unit model			HTFU 351 ZAL	HTFU 531 ZAL
Outdoor unit model			**HCKI 351 ZA-1**	**HCKI 531 ZA-1**
Type			DC-Inverter heat pump	
Control (included)			Remote control	
Nominal data				
Rated capacity (T=+35°C)	Cooling	kW	3.52 (0.85~4.11)	5.28 (2.90~5.59)
Rated absorbed power (T=+35°C)		kW	1.01 (0.17~1.43)	1.63 (0.72~2.09)
Rated energy efficiency coefficient		EER[1]	3.48	3.23
Rated capacity (T=+7°C)	Heating	kW	3.81 (0.47~4.31)	5.18 (2.37~6.10)
Rated absorbed power (T=+7°C)		kW	1.02 (0.12~1.38)	1.38 (0.70~1.93)
Rated energy performance coefficient		COP[1]	3.74	3.75
Seasonal data				
Theoretical load (Pdesignc)	Cooling	kW	3.50	5.30
Seasonal energy efficiency index		SEER[2]	6.60	6.30
Seasonal energy efficiency class		626/2011[3]	A++	A++
Annual energy consumption		kWh/a	186	294
Theoretical load (Pdesignh) @-10°C	Heating (average climate conditions)	kW	2.70	4.20
Seasonal energy efficiency index		SCOP[2]	4.10	4.00
Seasonal energy efficiency class		626/2011[3]	A+	A+
Annual energy consumption		kWh/a	922	1470
Electrical data				
Power supply	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz	
Power cable		Type	3 x 2.5 mm²	3 x 4.0 mm²
Connection wires between I.U. and O.U.		no.	4	4
Absorbed current	Cooling	A	4.50 (1.30~6.30)	7.20 (3.20~9.20)
	Heating	A	4.70 (1.00~6.10)	6.80 (3.10~8.50)
Maximum current		A	9.00	13.50
Maximum absorbed power		kW	1.85	2.95
Refrigerant circuit				
Refrigerant[4]		Type (GWP)	R32 (675)	
Quantity refrigerant pre-load		Kg	0.71	1.15
Tons of CO2 equivalent		t	0.479	0.776
Diameter of refrigerant piping on liquid/gas		mm (inches)	6.35(1/4") / 9.52(3/8")	6.35(1/4") / 12.74(1/2")
Max splitting length		m	25	30
Max height difference I.U./O.U.		m	10	20
Split length without additional charge		m	5	5
Additional load		g/m	12	12
Indoor unit specifications				
Dimensions	LxDxH	mm	570x570x260	570x570x260
Net weight		Kg	16.3	16.5
Sound pressure level	Hi	dB(A)	56	57
Sound power level	Hi/Mi/Lo	dB(A)	42/37.5/34.5	45.4/44/39
Treated air volume	Hi/Mi/Lo	m³/h	569/485/389	680/584/479
Condensate drain pipe diameter		mm	ø25	ø25
Outdoor unit specifications				
Dimensions	LxDxH	mm	765x303x555	805x330x554
Net weight		Kg	26.6	32.5
Sound pressure level		dB(A)	61	65
Sound power level		dB(A)	53.6	56
Treated air volume	Max	m³/h	2200	2100
Operating limits (outside temperature)	Cooling	°C	-15~50	
	Heating	°C	-15~24	
Accessories				
Decorative panel			TFP 200 ZA	
Dimensions	LxDxH	mm	647x647x50	
Net weight		Kg	2.5	
Optional parts				
Wi-Fi module			On demand	
Wired remote control			DHW-WT-ZA	
Centralized control			DTC IHXR TOUCH / DTCWT IHXR	
Wi-Fi centralized control			XRV Mobile BMS	

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

SLIM **CASSETTE** 84x84

SOPHISTICATED DESIGN

The 8-ways cassette type unis for suspended ceilings combine exceptional features with a sophisticated design. This range is extremely flexible and uses low GWP R32 refrigerant.

OPERATION

-15~50°C
in cooling

-15~24°C
in heating

PERFORMANCE

MODEL	SEER	SCOP
7.03 kW	6.20/A++	4.00/A+
10.55 kW	6.40/A++	4.00/A+
14.07 kW	6.10/A++	4.00/A+
15.24 kW	6.30/A++	4.00/A+

SLIM **CASSETTE** 84x84

HTBI 711-1081-1401-1601 ZA

-15-50° C in cooling
-15-24° C in heating
8-ways TBP 711 ZA panel

Condensate drain pump included with possibility of raising the discharge up to 750 mm from the lower height

Pre-set for external air inlet
Remote control included as standard

Wi-Fi
optional

Indoor unit model			HTBI 711 ZA	HTBI 1081 ZA	HTBI 1401 ZA	HTBI 1601 ZA
Outdoor unit model			**HCKI 711 ZA-1**	**HCSI 1081 ZA-1**	**HCSI 1401 ZA-1**	**HCSI 1601 ZA-1**
Type			FULL DC-Inverter heat pump			
Control (included)			Remote control			
Rated capacity (T=+35°C)	Cooling	kW	7.03 (3.30~7.91)	10.55 (2.70~11.43)	14.07 (3.52~15.83)	15.24 (4.10~16.71)
Rated absorbed power (T=+35°C)		kW	2.32 (0.78~2.75)	4.00 (0.89~4.15)	4.65 (0.80~5.90)	5.00 (0.98~6.20)
Rated energy efficiency coefficient		EER[3]	3.03	2.64	3.03	3.05
Seasonal energy efficiency class		626/2011[1]	A++	A++	A++	A++
Seasonal energy efficiency index		SEER[2]	6.20	6.40	6.10	6.30
Annual energy consumption		kWh/a	395	574	803	850
Theoretical load (Pdesignc)		kW	7.00	10.50	14.00	15.30
Rated capacity (T=+7°C)	Heating	kW	7.62 (2.81~8.94)	11.14 (2.78~12.30)	16.12 (4.10~17.29)	18.17 (4.40~19.93)
Rated absorbed power (T=+7°C)		kW	1.90 (0.61~2.70)	3.00 (0.78~4.00)	4.58 (0.90~5.50)	5.55 (1.02~6.70)
Rated energy performance coefficient		COP[3]	4.01	3.71	3.52	3.27
Energy efficiency class (average season)		626/2011[1]	A+	A+	A+	A+
Seasonal energy efficiency class index (average season)		SCOP[2]	4.00	4.00	4.00	4.00
Annual energy consumption		kWh/a	2100	2870	3850	4165
Theoretical load (Pdesignh) @-10° C		kW	6.00	8.20	11.00	11.90
Operating limits (outside temperature)	Cooling	°C	-15~50			
	Heating	°C	-15~24			
Electrical data						
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ	3-380~415V-50HZ		
Power cable		Type	3 x 4 mm²	5 x 2.5 mm²	5 x 4 mm²	5 x 4 mm²
Connection wires between I.U. and O.U.		no.	4	4	4	4
Rated absorbed current (min~max)	Cooling	A	10.20 (4.20~12.00)	6.50 (1.40~6.50)	8.10 (1.80~10.20)	8.60 (2.10~10.70)
	Heating	A	8.50 (3.60~12.10)	5.00 (1.30~6.40)	8.00 (1.90~9.50)	9.60 (2.10~10.70)
Maximum current		A	19.00	10.00	13.00	14.00
Maximum absorbed power		kW	3.70	5.00	6.90	7.50
Refrigerant circuit						
Refrigerant (GWP)[4]			R32 (675)			
Quantity refrigerant pre-load		Kg	1.5	2.4	2.9	3
Tons of CO2 equivalent		t	1.013	1.620	1.958	2.025
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø9.52(3/8") - ø15.88(5/8")			
Max splitting length		m	50	75	75	75
Max height difference I.U./O.U.		m	25	30	30	30
Splitting length without additional load		m	5	5	5	5
Additional load		g/m	24	24	24	24
Indoor unit specifications						
Dimensions	LxDxH	mm	830x830x205	830x830x245	830x830x287	830x830x287
Net weight		Kg	21.6	27.2	29.3	29.3
Sound pressure level (I.U.)	Hi/Mi/Lo/ULo	dB(A)	45.5/42.5/39.5/27	50/47.5/44.5/39	51/48.5/46.5/37.5	53/50.5/48/40
Sound power level (I.U.)	Hi	dB(A)	57	63	65	65
Treated air volume	Hi/Mi/Lo	m³/h	1300/1140/1000	1700/1550/1380	1970/1780/1580	2000/1850/1650
Motor power (Output)		W	45	125	125	125
Outside diameter of condensate drain		mm	ø25	ø25	ø25	ø25
Specifications of outdoor units						
Dimensions	LxDxH	mm	890x342x673	946x410x810	952x415x1333	952x415x1333
Net weight		Kg	43.9	66.9	103.7	107
Sound pressure level / Sound power level (O.U.)		dB(A)	60 / 67	63 / 70	63.5 / 73	64 / 74
Treated air (Max)		m³/h	3500	4000	7500	7500
Motor power (Output)		n° x W	1 x 80	1 x 120	2 x 85	2 x 85
Accessories						
Decorative panel			TBP 711 ZA			
Dimensions	LxDxH	mm	950x950x55	950x950x55	950x950x55	950x950x55
Net weight		Kg	6	6	6	6
Optional parts						
Wi-Fi module			HKM-WIFI-TB			
Wired remote control and manual centralized control			DHW-WT-ZA			
Wi-Fi centralized control			XRV Mobile BMS			

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

DUCTED WITH MEDIUM STATIC PRESSURE

RELIABLE AND DISCRETE

The Hokkaido Ducted systems combine first class features with a plain design for easy installation and maintenance.
Our ducted air conditioning units are suitable for both residential and business use.

OPERATION

-15~50°C
in cooling

-15~24°C
in heating

PERFORMANCE

MODEL	SEER	SCOP
3.52 kW	6.30/A++	4.00/A+
5.28 kW	6.50/A++	4.00/A+
7.03 kW	6.20/A++	4.00/A+
10.55 kW	6.10/A++	4.00/A+
14.07 kW	6.10/A++	4.00/A+
15.24 kW	6.10/A++	4.00/A+

DUCTED WITH MEDIUM STATIC PRESSURE

-15~50º C in cooling
-15~24º C in heating
Compatible with systems AIRZONE

Condensate drain pump included with possibility of raising the discharge up to 750 mm from the lower height
100 Pa | Automatic adjustment of the static pressure of the fan at constant flow rate

Wired remote control included

Wi-Fi optional

Indoor unit model			**HUCU 351 ZAL**	**HUCU 531 ZAL**
Outdoor unit model			**HCKI 351 ZA-1**	**HCKI 531 ZA-1**
Type			DC-Inverter heat pump	
Control (included)			Wired remote	
Nominal data				
Rated capacity (T=+35ºC)	Cooling	kW	3.52 (0.53~3.99)	5.28 (2.55~5.86)
Rated absorbed power (T=+35ºC)		kW	1.05 (0.16~1.37)	1.53 (0.71~2.15)
Rated energy efficiency coefficient		EER[1]	3.34	3.45
Rated capacity (T=+7ºC)	Heating	kW	3.81 (1.00~4.39)	5.57 (2.20~6.15)
Rated absorbed power (T=+7ºC)		kW	1.03 (0.30~1.39)	1.50 (0.74~1.76)
Rated energy performance coefficient		COP[1]	3.71	3.71
Seasonal data				
Theoretical load (Pdesignc)	Cooling	kW	3.50	5.40
Seasonal energy efficiency index		SEER[2]	6.30	6.50
Seasonal energy efficiency class		626/2011[3]	A++	A++
Annual energy consumption		kWh/a	194	291
Theoretical load (Pdesignh) @-10ºC	Heating (average climate conditions)	kW	2.70	4.30
Seasonal energy efficiency index		SCOP[2]	4.00	4.00
Seasonal energy efficiency class		626/2011[3]	A+	A+
Annual energy consumption		kWh/a	945	1505
Electrical data				
Power supply	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz	
Power cable		Type	3 x 2.5 mm^2	3 x 4 mm^2
Connection wires between I.U. and O.U.		no.	4	4
Absorbed current	Cooling	A	4.80 (1.30~6.10)	7.10 (3.20~9.60)
	Heating	A	4.50 (1.50~6.20)	6.80 (3.30~7.70)
Maximum current		A	9.00	13.50
Maximum absorbed power		kW	1.85	2.95
Refrigerant circuit				
Refrigerant[4]		Type (GWP)	R32 (675)	
Quantity refrigerant pre-load		Kg	0.71	1.15
Tons of CO2 equivalent		t	0.479	0.776
Diameter of refrigerant piping on liquid/gas		mm (inches)	6.35(1/4") / 9.52(3/8")	6.35(1/4") / 12.74(1/2")
Max splitting length		m	25	30
Max height difference I.U./O.U.		m	10	20
Split length without additional charge		m	5	5
Additional load		g/m	12	12
Indoor unit specifications				
Dimensions	LxDxH	mm	700x506x200	880x674x210
Net weight		Kg	17.8	24.4
Sound pressure level	Hi	dB(A)	57	58
Sound power level	Hi/Mi/Lo	dB(A)	34.5/32/30	42/39/35
Treated air volume	Hi/Mi/Lo	m^3/h	600/480/300	911/706/515
Fan static pressure	Std/Max	Pa	25/60	25/100
Condensate drain pipe diameter		mm	ø25	ø25
Outdoor unit specifications				
Dimensions	LxDxH	mm	765x303x555	805x330x554
Net weight		Kg	26.6	32.5
Sound pressure level		dB(A)	61	65
Sound power level		dB(A)	53.6	56
Treated air volume	Max	m^3/h	2200	2100
Operating limits (outside temperature)	Cooling	ºC	-15~50	
	Heating	ºC	-15~24	
Optional parts				
Wi-Fi module			On demand	
Centralized control			DTC IHXR TOUCH / DTCWT IHXR	
Wi-Fi centralized control			XRV Mobile BMS	

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

DUCTED WITH MEDIUM STATIC PRESSURE

-15~50° C in cooling
-15~24° C in heating
Compatible with systems AIRZONE

Condensate drain pump included with possibility of raising the discharge up to 750 mm from the lower height
160 Pa | Automatic adjustment of the static pressure of the fan at constant flow rate

Wired remote control included

Wi-Fi optional

Indoor unit model			**HUCI 711 ZA**	**HUCI 1081 ZA**	**HUCI 1401 ZA**	**HUCI 1601 ZA**
Outdoor unit model			**HCKI 711 ZA-1**	**HCSI 1081 ZA-1**	**HCSI 1401 ZA-1**	**HCSI 1601 ZA-1**
Type			FULL DC-Inverter heat pump			
Control (included)			Wired remote			
Rated capacity (T=+35°C)	Cooling	kW	7.03 (3.28~8.16)	10.55 (2.73~11.78)	14.07 (3.52~15.53)	15.24 (4.10~17.29)
Rated absorbed power (T=+35°C)		kW	2.19 (0.75~2.96)	4.00 (0.89~4.20)	4.80 (0.88~6.00)	5.25 (1.03~6.65)
Rated energy efficiency coefficient		EER[3]	3.21	2.64	2.93	2.90
Seasonal energy efficiency class		626/2011[1]	A++	A++	A++	A++
Seasonal energy efficiency index		SEER[2]	6.20	6.10	6.10	6.10
Annual energy consumption		kWh/a	401	608	803	878
Theoretical load (Pdesignc)		kW	7.10	10.60	14.00	15.30
Rated capacity (T=+7°C)	Heating	kW	7.62 (2.81~8.49)	11.72 (2.78~12.84)	16.12 (4.10~18.17)	18.17 (4.40~20.52)
Rated absorbed power (T=+7°C)		kW	1.90 (0.64~2.58)	3.25 (0.78~4.00)	4.50 (0.95~5.70)	5.15 (0.95~6.60)
Rated energy performance coefficient		COP[3]	4.01	3.61	3.58	3.53
Energy efficiency class (average season)		626/2011[1]	A+	A+	A+	A+
Seasonal energy efficiency class index (average season)		SCOP[2]	4.00	4.00	4.00	4.00
Annual energy consumption		kWh/a	1890	3080	4025	4375
Theoretical load (Pdesignh) @-10° C		kW	5.40	8.80	11.50	12.50
Operating limits (outside temperature)	Cooling	°C	-15~50			
	Heating	°C	-15~24			
Electrical data						
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ	3-380~415V-50HZ		
Power cable		Type	3 x 4 mm²	5 x 2.5 mm²	5 x 4 mm²	5 x 4 mm²
Connection wires between I.U. and O.U.		no.	4	4	4	4
Rated absorbed current (min~max)	Cooling	A	10.20 (4.20~13.20)	6.50 (1.40~6.70)	8.40 (1.90~10.40)	9.60 (3.10~11.50)
	Heating	A	9.20 (3.80~11.60)	5.30 (1.30~6.40)	8.00 (2.00~9.80)	9.50 (2.00~11.50)
Maximum current		A	19.00	10.00	13.00	14.00
Maximum absorbed power		kW	3.70	5.00	6.90	7.50
Refrigerant circuit						
Refrigerant (GWP)[4]			R32 (675)			
Quantity refrigerant pre-load		Kg	1.5	2.4	2.9	3
Tons of CO2 equivalent		t	1.013	1.620	1.958	2.025
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø9.52(3/8") - ø15.88(5/8")			
Max. splitting length		m	50	75	75	75
Max height difference I.U./O.U.		m	25	30	30	30
Splitting length without additional load		m	5	5	5	5
Additional load		g/m	24	24	24	24
Indoor unit specifications						
Dimensions	LxDxH	mm	1100x774x249	1360x774x249	1200x874x300	1200x874x300
Net weight		Kg	32.3	40.5	47.4	47.6
Sound pressure level (I.U.)	Hi/Mi/Lo/ULo	dB(A)	42/40/37/27	49.5/48/46/42.5	50/49/47/42	52.5/49/47
Sound power level (I.U.)	Hi	dB(A)	61	61	66	66
Treated air volume	Hi/Mi/Lo	m³/h	1229/1035/825	2100/1800/1500	2400/2040/1680	2600/2210/1820
Fan static pressure	Std/Max	Pa	25/160	37/160	50/160	50/160
Motor power (Output)		W	160	300	560	560
Outside diameter of condensate drain		mm	ø25	ø25	ø25	ø25
Specifications of outdoor units						
Dimensions	LxDxH	mm	890x342x673	946x410x810	952x415x1333	952x415x1333
Net weight		Kg	43.9	66.9	103.7	107
Sound pressure level / Sound power level (O.U.)		dB(A)	60 / 67	63 / 70	63.5 / 73	64 / 74
Treated air (Max)		m³/h	3500	4000	7500	7500
Motor power (Output)		n° x W	1 x 80	1 x 120	2 x 85	2 x 85
Optional parts						
Manual centralized control			YES			
Wi-Fi centralized control			XRV Mobile BMS			

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.


RYOKAN

CONSOLE

PERFORMANCE AND COMFORT

The new Hokkaido Console indoor unit was designed to provide best functionality combined with a pleasant and modern look. Thanks to the diversified air flows these indoor units allow to obtain a high level of thermal comfort in your room.

OPERATION

-15~50°C
in cooling

-15~24°C
in heating

PERFORMANCE

MODEL	SEER	SCOP
3.52 kW	7.30/A++	4.00/A+
4.98 kW	6.70/A++	4.00/A+

CONSOLE

HFIU 351-501 ZAL

- **-15~50° C** in cooling
- **-15~24° C** in heating
- Extremely thin with only **200 mm depth**

- Possibility of **double delivery**, from upper and lower flap
- Double installation option, floor or wall using a bracket

- Remote control included as standard

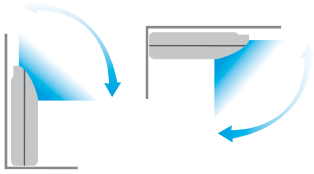
Wi-Fi
optional

Indoor unit model			**HFIU 351 ZAL**	**HFIU 501 ZAL**
Outdoor unit model			**HCKI 351 ZA-1**	**HCKI 531 ZA-1**
Type			DC-Inverter heat pump	
Control (included)			Remote control	
Nominal data				
Rated capacity (T=+35°C)	Cooling	kW	3.52 (0.76~4.25)	4.98 (2.64~5.57)
Rated absorbed power (T=+35°C)		kW	1.00 (0.17~1.35)	1.50 (0.65~1.95)
Rated energy efficiency coefficient		EER[1]	3.52	3.32
Rated capacity (T=+7°C)	Heating	kW	3.81 (0.45~4.69)	5.28 (2.20~6.30)
Rated absorbed power (T=+7°C)		kW	0.98 (0.15~1.30)	1.42 (0.60~1.90)
Rated energy performance coefficient		COP[1]	3.89	3.72
Seasonal data				
Theoretical load (Pdesignc)	Cooling	kW	3.50	5.00
Seasonal energy efficiency index		SEER[1]	7.30	6.70
Seasonal energy efficiency class		626/2011[3]	A++	A++
Annual energy consumption		kWh/a	168	261
Theoretical load (Pdesignh) @-10°C	Heating (average climate conditions)	kW	2.60	4.00
Seasonal energy efficiency index		SCOP[2]	4.00	4.00
Seasonal energy efficiency class		626/2011[3]	A+	A+
Annual energy consumption		kWh/a	910	1400
Electrical data				
Power supply	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz	
Power cable		Type	3 x 2.5 mm²	3 x 4.0 mm²
Connection wires between I.U. and O.U.		no.	4	4
Absorbed current	Cooling	A	4.50 (1.40~5.90)	6.70 (3.00~8.70)
	Heating	A	4.40 (1.30~6.00)	6.40 (2.80~8.50)
Maximum current		A	9.00	13.50
Maximum absorbed power		kW	1.85	2.95
Refrigerant circuit				
Refrigerant[4]		Type (GWP)	R32 (675)	
Quantity refrigerant pre-load		Kg	0.71	1.15
Tons of CO2 equivalent		t	0.479	0.776
Diameter of refrigerant piping on liquid/gas		mm (inches)	6.35(1/4") / 9.52(3/8")	6.35(1/4") / 12.74(1/2")
Max splitting length		m	25	30
Max height difference I.U./O.U.		m	10	20
Split length without additional charge		m	5	5
Additional load		g/m	12	12
Indoor unit specifications				
Dimensions	LxDxH	mm	794x200x621	794x200x621
Net weight		Kg	14.9	14.9
Sound pressure level	Hi	dB(A)	54	55
Sound power level	Hi/Mi/Lo	dB(A)	37/34/27	41/38/32
Treated air volume	Hi/Mi/Lo	m³/h	650/580/490	780/690/600
Condensate drain pipe diameter		mm	ø16	ø16
Outdoor unit specifications				
Dimensions	LxDxH	mm	765x303x555	805x330x554
Net weight		Kg	26.6	32.5
Sound pressure level		dB(A)	62	63
Sound power level		dB(A)	54	55
Treated air volume	Max	m³/h	2200	2100
Operating limits (outside temperature)	Cooling	°C	-15~50	
	Heating	°C	-15~24	
Optional parts				
Wi-Fi module			HKM-WiFi-TB	
Wired remote control			NO	
Centralized control			NO	
Wi-Fi centralized control			NO	

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

FLOOR/CEILING

TWO WAYS OF INSTALLATION



New design stylish.

The wide air distribution louver with aerodynamic flaps ensure fast and silent operation.

OPERATION

-15~50°C
in cooling

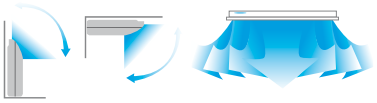
-15~24°C
in heating

PERFORMANCE

MODEL	SEER	SCOP
5.28 kW	6.20/A++	4.00/A+
7.03 kW	6.10/A++	4.00/A+
10.55 kW	6.40/A++	4.10/A+
14.07 kW	6.10/A++	4.00/A+
15.83 kW	6.10/A++	4.00/A+

FLOOR/ CEILING

HSFU 531 ZAL - HSFI 711-1081-1401-1601 ZA1



Excellent installation flexibility

-15~50° C in cooling
-15~24° C in heating

Turbo function, to heat and cool the environment quickly

Remote control included as standard

Wi-Fi optional

Indoor unit model			HSFU 531 ZAL	HSFI 711 ZA1	HSFI 1081 ZA1	HSFI 1401 ZA1	HSFI 1601 ZA1
Outdoor unit model			HCKI 531 ZA-1	HCKI 711 ZA-1	HCSI 1081 ZA-1	HCSI 1401 ZA-1	HCSI 1601 ZA-1
Type			DC-Inverter heat pump				
Control (included)			Remote control				
Rated capacity (T=+35°C)	Cooling	kW	5.28 (2.71~5.86)	7.03 (3.22~7.77)	10.55 (2.73~11.78)	14.07 (3.52~15.24)	15.83 (4.10~16.71)
Rated absorbed power (T=+35°C)		kW	1.45 (0.67~2.03)	2.30 (0.75~2.93)	4.00 (0.89~4.30)	5.00 (0.90~5.95)	5.65 (1.10~6.65)
Rated energy efficiency coefficient		EER[3]	3.64	3.06	2.64	2.81	2.80
Seasonal energy efficiency class		626/2011[1]	A++	A++	A++	A++	A++
Seasonal energy efficiency index		SEER[2]	6.20	6.10	6.40	6.10	6.10
Annual energy consumption		kWh/a	305	413	574	803	916
Theoretical load (Pdesignc)		kW	5.40	7.20	10.50	14.00	15.50
Rated capacity (T=+7°C)	Heating	kW	5.57 (2.42~6.30)	7.62 (2.72~8.29)	11.72 (2.81~12.78)	16.12 (4.10~17.00)	18.17 (4.40~19.64)
Rated absorbed power (T=+7°C)		kW	1.50 (0.54~1.64)	2.05 (0.65~2.85)	3.35 (0.78~3.95)	5.10 (1.00~6.05)	6.05 (1.05~7.10)
Rated energy performance coefficient		COP[3]	3.71	3.72	3.50	3.16	3.00
Energy efficiency class (average season)		626/2011[1]	A+	A+	A+	A+	A+
Seasonal energy efficiency class index (average season)		SCOP[2]	4.00	4.00	4.10	4.00	4.00
Annual energy consumption		kWh/a	1400	1890	3150	4025	4165
Theoretical load (Pdesignh) @-10° C		kW	4.00	5.50	8.60	11.20	11.90
Operating limits (outside temperature)	Cooling	°C	-15~50				
	Heating	°C	-15~24				
Electrical data							
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ		3-380~415V-50HZ		
Power cable		Type	3 x 4 mm²	3 x 4 mm²	5 x 2.5 mm²	5 x 4 mm²	5 x 4 mm²
Connection wires between I.U. and O.U.		no.	4	4	4	4	4
Rated absorbed current (min~max)	Cooling	A	6.00 (3.20~9.00)	10.50 (3.90~13.10)	6.30 (1.40~6.80)	8.80 (1.90~10.30)	9.70 (3.20~11.50)
	Heating	A	6.60 (2.70~7.30)	9.50 (3.50~12.70)	5.40 (1.30~6.20)	8.90 (2.10~10.50)	10.50 (2.20~12.00)
Maximum current		A	13.50	19.00	10.00	13.00	14.00
Maximum absorbed power		kW	2.95	3.70	5.00	6.90	7.50
Refrigerant circuit							
Refrigerant (GWP)[4]			R32 (675)				
Quantity refrigerant pre-load		Kg	1.15	1.5	2.4	2.9	3
Tons of CO2 equivalent		t	0.776	1.013	1.620	1.958	2.025
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø12.74(1/2")		ø9.52(3/8") - ø15.88(5/8")		
Max. splitting length		m	30	50	75	75	75
Max height difference I.U./O.U.		m	20	25	30	30	30
Splitting length without additional load		m	5	5	5	5	5
Additional load		g/m	12	24	24	24	24
Specifications of outdoor units							
Dimensions	LxDxH	mm	1068x675x235	1068x675x235	1650x675x235	1650x675x235	1650x675x235
Net weight		Kg	28	28	41.5	41.7	42.3
Sound pressure level (I.U.)	Hi/Mi/Lo/ULo	dB(A)	44/41/37	49/46/43/32	51/47.5/44.5/39	53/50/45/36	54/50.5/46.5/38
Sound power level (I.U.)	Hi	dB(A)	57	55	64	67	67
Treated air volume	Hi/Mi/Lo	m³/h	958/839/723	1208/1066/853	2160/1844/1431	2329/1930/1417	2454/1834/1426
Motor power (Output)		n° x W	1 x 96	1 x 100	2 x 96	2 x 96	2 x 90
Outside diameter of condensate drain		mm	ø25	ø25	ø25	ø25	ø25
Specifications of outdoor units							
Dimensions	LxDxH	mm	805x330x554	890x342x673	946x410x810	952x415x1333	952x415x1333
Net weight		Kg	32.5	43.9	66.9	103.7	107
Sound pressure level / Sound power level (O.U.)		dB(A)	56 /65	60 / 67	63 / 70	63.5 / 73	64 / 74
Treated air (Max)		m³/h	2100	3500	4000	7500	7500
Motor power (Output)		n° x W	1 x 34	1 x 80	1 x 120	2 x 85	2 x 85
Optional parts							
Wired remote control and manual centralized control			DHW-WT-ZA				
Wi-Fi centralized control			XRV Mobile BMS				

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

TWIN COMBINATIONS

Indoor unit model			**2 x HTBI 711 ZA**
Outdoor unit model			**HCSI 1401 ZA-1**
Type			DC-Inverter heat pump with 2 slim cassette indoor units
Control (included)			Remote control
Operating limits (outside temperature)	Cooling	°C	-15~50
	Heating	°C	-15~24
Nominal data			
Rated capacity (T=+35°C)	Cooling	kW	14.07 (3.52~15.83)
Rated absorbed power (T=+35°C)		kW	4.65 (0.80~5.90)
Rated energy efficiency coefficient		EER[1]	3.03
Rated capacity (T=+7°C)	Heating	kW	16.12 (4.10~17.29)
Rated absorbed power (T=+7°C)		kW	4.58 (0.90~5.50)
Rated energy performance coefficient		COP[1]	3.52
Seasonal data			
Theoretical load (Pdesignc)	Cooling	kW	14.00
Seasonal energy efficiency index		SEER[2]	6.10
Seasonal energy efficiency class		626/2011[3]	A++
Annual energy consumption		kWh/a	803
Theoretical load (Pdesignh) @-10°C	Heating (average climate conditions)	kW	11.00
Seasonal energy efficiency index		SCOP[2]	4.00
Seasonal energy efficiency class		626/2011[3]	A+
Annual energy consumption		kWh/a	3850
Electrical data			
Power supply	Outdoor unit	Ph-V-Hz	3Ph - 380/415V - 50Hz
Power cable		Type	5 x 4 mm[2]
Connection wires between I.U. and O.U.		no.	4
Absorbed current	Cooling	A	8.10 (1.80~10.20)
	Heating	A	8.00 (1.90~9.50)
Maximum current		A	13.00
Maximum absorbed power		kW	6.90
Refrigerant circuit			
Refrigerant[4]		Type (GWP)	R32 (675)
Quantity refrigerant pre-load		Kg	2.9
Tons of CO2 equivalent		t	1.958
Diameter of refrigerant piping on liquid/gas	Indoor unit	mm (inches)	9.52(3/8") / 15.88(5/8")
	Outdoor unit		
Max splitting length		m	75
Max height difference I.U./O.U.		m	30
Split length without additional charge		m	5
Additional load		g/m	24

Indoor unit model			**2 x HUCU 351 ZAL**	**2 x HUCU 531 ZAL**	**2 x HUCI 711 ZA**
Outdoor unit model			**HCKI 711 ZA-1**	**HCSI 1081 ZA-1**	**HCSI 1401 ZA-1**
Type			DC-Inverter heat pump with 2 ducted indoor units		
Control (included)			Wired remote		
Operating limits (outside temperature)	Cooling	°C	-15~50		
	Heating	°C	-15~24		
Nominal data					
Rated capacity (T=+35°C)	Cooling	kW	7.03 (3.28~8.16)	10.55 (2.73~11.78)	14.07 (3.52~15.53)
Rated absorbed power (T=+35°C)		kW	2.19 (0.75~2.96)	4.00 (0.89~4.20)	4.80 (0.88~6.00)
Rated energy efficiency coefficient		EER[1]	3.21	2.64	2.93
Rated capacity (T=+7°C)	Heating	kW	7.62 (2.81~8.49)	11.72 (2.78~12.84)	16.12 (4.10~18.17)
Rated absorbed power (T=+7°C)		kW	1.90 (0.64~2.58)	3.25 (0.78~4.00)	4.50 (0.95~5.70)
Rated energy performance coefficient		COP[1]	4.01	3.61	3.58
Seasonal data					
Theoretical load (Pdesignc)	Cooling	kW	7.10	10.60	14.00
Seasonal energy efficiency index		SEER[2]	6.20	6.10	6.10
Seasonal energy efficiency class		626/2011[3]	A++	A++	A++
Annual energy consumption		kWh/a	401	608	803
Theoretical load (Pdesignh) @-10°C	Heating (average climate conditions)	kW	5.40	8.80	11.50
Seasonal energy efficiency index		SCOP[2]	4.00	4.00	4.00
Seasonal energy efficiency class		626/2011[3]	A+	A+	A+
Annual energy consumption		kWh/a	1890	3080	4025
Electrical data					
Power supply	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz	3Ph - 380/415V - 50Hz	
Power cable		Type	3 x 4 mm[2]	5 x 2.5 mm[2]	5 x 4 mm[2]
Connection wires between I.U. and O.U.		no.	4	4	4
Absorbed current	Cooling	A	10.20 (4.20~13.20)	6.50 (1.40~6.70)	8.40 (1.90~10.40)
	Heating	A	9.20 (3.80~11.60)	5.30 (1.30~6.40)	8.00 (2.00~9.80)
Maximum current		A	19.00	10.00	13.00
Maximum absorbed power		kW	3.70	5.00	6.90
Refrigerant circuit					
Refrigerant[4]		Type (GWP)	R32 (675)		
Quantity refrigerant pre-load		Kg	1.5	2.4	2.9
Tons of CO2 equivalent		t	1.013	1.620	1.958
Diameter of refrigerant piping on liquid/gas	Indoor unit	mm (inches)	6.35(1/4") / 9.52(3/8")	6.35(1/4") / 12.74(1/2")	9.52(3/8") / 15.88(5/8")
	Outdoor unit		9.52(3/8") / 15.88(5/8")	9.52(3/8") / 15.88(5/8")	
Max splitting length		m	50	75	75
Max height difference I.U./O.U.		m	25	30	30
Split length without additional charge		m	5	5	5
Additional load		g/m	24	24	24

TWIN COMBINATIONS

Indoor unit model			**2 x HSFU 531 ZAL**	**2 x HSFI 711 ZA1**
Outdoor unit model			**HCSI 1081 ZA-1**	**HCSI 1401 ZA-1**
Type			DC-Inverter heat pump with 2 ceiling/floor indoor units	
Control (included)			Remote control	
Operating limits (outside temperature)	Cooling	°C	-15~50	
	Heating	°C	-15~24	
Nominal data				
Rated capacity (T=+35°C)	Cooling	kW	10.55 (2.73~11.78)	14.07 (3.52~15.24)
Rated absorbed power (T=+35°C)		kW	4.00 (0.89~4.30)	5.00 (0.90~5.95)
Rated energy efficiency coefficient		EER[1]	2.64	2.81
Rated capacity (T=+7°C)	Heating	kW	11.72 (2.81~12.78)	16.12 (4.10~17.00)
Rated absorbed power (T=+7°C)		kW	3.35 (0.78~3.95)	5.10 (1.00~6.05)
Rated energy performance coefficient		COP[1]	3.50	3.16
Seasonal data				
Theoretical load (Pdesignc)	Cooling	kW	10.50	14.00
Seasonal energy efficiency index		SEER[2]	6.40	6.10
Seasonal energy efficiency class		626/2011[3]	A++	A++
Annual energy consumption		kWh/a	574	803
Theoretical load (Pdesignh) @-10°C	Heating (average climate conditions)	kW	8.60	11.20
Seasonal energy efficiency index		SCOP[2]	4.10	4.00
Seasonal energy efficiency class		626/2011[3]	A+	A+
Annual energy consumption		kWh/a	3150	4025
Electrical data				
Power supply	Outdoor unit	Ph-V-Hz	3Ph - 380/415V - 50Hz	
Power cable		Type	5 x 2.5 mm^2	5 x 4 mm^2
Connection wires between I.U. and O.U.		no.	4	4
Absorbed current	Cooling	A	6.30 (1.40~6.80)	8.80 (1.90~10.30)
	Heating	A	5.40 (1.30~6.20)	8.90 (2.10~10.50)
Maximum current		A	10.00	13.00
Maximum absorbed power		kW	5.00	6.90
Refrigerant circuit				
Refrigerant[4]		Type (GWP)	R32 (675)	
Quantity refrigerant pre-load		Kg	2.4	2.9
Tons of CO2 equivalent		t	1.620	1.958
Diameter of refrigerant piping on liquid/gas	Indoor unit	mm (inches)	6.35(1/4") / 12.74(1/2")	9.52(3/8") / 15.88(5/8")
	Outdoor unit		9.52(3/8") / 15.88(5/8")	
Max splitting length		m	75	75
Max height difference I.U./O.U.		m	30	30
Split length without additional charge		m	5	5
Additional load		g/m	24	24

For the specifications of the units, the connectable accessories and the optional parts, refer to the tables of the single models.
1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

The indoor units that can be used in the Twin combinations are the slim cassette, the medium static pressure ducted and the floor/ceiling combined with outdoor units HCKI 711 ZA-1, HCSI 1081 ZA-1, HCSI 1401 ZA-1.

R32 MULTISPLIT

OUTDOOR UNITS	EER*	COP*	SEER	SCOP
HCKU 471 Z2	3.23	3.71	5.60 / A+	3.80 / A
HCKU 531 Z2	3.23	3.71	6.10 / A++	3.80 / A
HCKU 601 Z3	3.23	3.71	6.10 / A++	4.00 / A+
HCKU 761 Z3	3.23	3.71	6.10 / A++	4.00 / A+
HCKU 810 Z4	3.23	4.00	6.10 / A++	3.80 / A
HCKU 1060 Z4	3.23	3.93	6.20 / A++	3.80 / A

* The values shown may vary depending on the combinations chosen. For further information, refer to the technical manual.

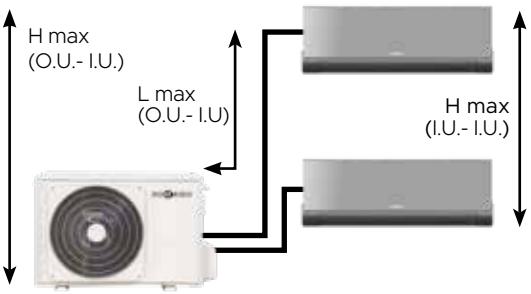
OPERATING RANGE

-15° C / 50° C
in cooling

-15° C / 24° C
in heating

INSTALLATION FLEXIBILITY

Extensive splitting lengths.



HCKU 471-531 Z2

L	TOT PIPING	**= 40 m**
L	MAX O.U.- I.U.	**= 25 m**
H	MAX O.U.- I.U.	**= 15 m**
H	MAX I.U.- I.U.	**= 10 m**

HCKU 601-761 Z3

L	TOT PIPING	**= 60 m**
L	MAX O.U.- I.U.	**= 30 m**
H	MAX O.U.- I.U.	**= 15 m**
H	MAX I.U.- I.U.	**= 10 m**

HCKU 810-1060 Z4

L	TOT PIPING	**= 80 m**
L	MAX O.U.- I.U.	**= 35 m**
H	MAX O.U.- I.U.	**= 15 m**
H	MAX I.U.- I.U.	**= 10 m**

HIGHLY COMPACT

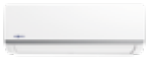
Highly compact and easy to install.

HCKU 471-531 Z2

HCKU 601-761 Z3

HCKU 810-1060 Z4

R32 MULTISPLIT

kW		4.10	5.28	6.15	7.91	8.21	10.55
Number of connectable I.U.		**2**	**2**	**3**	**3**	**4**	**4**
		 HCKU 471 Z2	 HCKU 531 Z2	 HCKU 601 Z3	 HCKU 761 Z3	 HCKU 810 Z4	 HCKU 1060 Z4
	HKEMM 262 ZAL	●	●	●	●	●	●
	HKEMM 352 ZAL	●	●	●	●	●	●
	HKEMM 266 ZAL	●	●	●	●	●	●
	HKEMM 356 ZAL	●	●	●	●	●	●
	HKEU 203 ZL	●	●	●	●	●	●
	HKEU 263 ZAL	●	●	●	●	●	●
	HKEU 353 ZAL-1	●	●	●	●	●	●
	HKEU 533 ZAL		●	●	●	●	●
	HTFU 351 ZAL	●	●	●	●	●	●
	HTFU 531 ZAL		●	●	●	●	●
	HUCU 351 ZAL	●	●	●	●	●	●
	HUCU 531 ZAL		●	●	●	●	●
	HFIU 351 ZAL	●	●	●	●	●	●
	HFIU 501 ZAL		●	●	●	●	●
	HSFU 531 ZAL		●	●	●	●	●

Performance and consumption are based on the following test conditions:
O.T. heating 7° C DB, 6° C WB - I.T. 20° C DB. Cooling: O.T. 35° C DB, 24° C WB - I.T. 27° C DB, 19° C WB (ISO T1).

R32 MULTISPLIT

Outdoor unit - Up to 4 connectable indoor units

HCKU 471 Z2
HCKU 531 Z2

HCKU 601 Z3
HCKU 761 Z3

HCKU 810 Z4
HCKU 1060 Z4

A++/A+ (6.15~7.91 kW) | Energy efficiency class in cooling/heating

Broad operating range in heating mode down to an outside temperature of -15° C, in cooling mode up to an outside temperature of +50° C

Maximum flexibility and ease of installation guaranteed by long refrigerant pipe length

Verify the maximum gas concentration limits, in particular in residential applications, as required by EN 378:2016.

Model			HCKU 471 Z2	HCKU 531 Z2	HCKU 601 Z3	HCKU 761 Z3	HCKU 810 Z4	HCKU 1060 Z4
Type			Outdoor DC-Inverter heat pump unit					
Connectable indoor units (min - max)		no.	1 - 2	1 - 2	2 - 3	2 - 3	2 - 4	2 - 4
Nominal data								
Rated capacity (T=+35°C)	Cooling	kW	4.10 (1.47~4.98)	5.28 (2.29~5.72)	6.15 (1.99~6.59)	7.91 (3.18~8.21)	8.21 (2.05~9.85)	10.55 (2.05~12.66)
Rated absorbed power (T=+35°C)	Cooling	kW	1.27 (0.12~1.67)	1.635 (0.69~2.00)	1.905 (0.18~2.20)	2.45 (0.29~3.10)	2.54 (0.89~3.18)	3.27 (1.14~4.09)
Rated energy efficiency coefficient	Cooling	EER[1]	3.23	3.23	3.23	3.23	3.23	3.23
Rated capacity (T=+7°C)	Heating	kW	4.40 (1.52~4.98)	5.57 (2.40~5.74)	6.45 (1.45~6.68)	8.21 (2.29~8.50)	8.79 (2.34~10.55)	10.84 (2.34~13.01)
Rated absorbed power (T=+7°C)	Heating	kW	1.185 (0.25~1.59)	1.50 (0.60~1.78)	1.738 (0.35~1.80)	2.21 (0.37~2.90)	2.20 (0.77~2.75)	2.76 (0.97~3.45)
Rated energy performance coefficient	Heating	COP[1]	3.71	3.71	3.71	3.71	4.00	3.93
Seasonal data								
Theoretical load (Pdesignc)	Cooling	kW	4.10	5.30	6.10	7.90	8.20	10.60
Seasonal energy efficiency index	Cooling	SEER[2]	5.60	6.10	6.10	6.10	6.10	6.20
Seasonal energy efficiency class	Cooling	626/2011[3]	A+	A++	A++	A++	A++	A++
Annual energy consumption	Cooling	kWh/a	256	304	350	453	470	598
Theoretical load (Pdesignh) @-10°C	Heating (average climate conditions)	kW	3.70	4.80	5.40	5.60	6.50	9.00
Seasonal energy efficiency index	Heating (average climate conditions)	SCOP[2]	3.80	3.80	4.00	4.00	3.80	3.80
Seasonal energy efficiency class	Heating (average climate conditions)	626/2011[3]	A	A	A+	A+	A	A
Annual energy consumption	Heating (average climate conditions)	kWh/a	1363	1768	1890	1960	2395	3316
Electrical data								
Power supply		Ph-V-Hz	1~220~240V-50HZ					
Power cable		Type	3 x 2.5 mm²	3 x 2.5 mm²	3 x 4 mm²	3 x 4 mm²	3 x 4 mm²	3 x 6 mm²
Connection wires between I.U. and O.U.		no.	4	4	4	4	4	4
Absorbed current	Cooling	A	5.80 (1.10~7.40)	7.30 (3.20~9.00)	8.30 (1.80~10.00)	11.20 (2.00~13.50)	11.30 (3.90~14.10)	14.30 (5.10~18.20)
Absorbed current	Heating	A	5.40 (1.90~7.00)	6.60 (2.80~8.00)	7.60 (2.60~8.00)	10.10 (2.40~13.00)	9.80 (3.40~12.20)	12.10 (4.30~15.30)
Maximum current		A	12.00	13.00	17.00	18.00	19.00	21.50
Maximum absorbed power		kW	2.75	3.05	3.91	4.10	4.15	4.60
Refrigerant circuit								
Refrigerant[4]		Type (GWP)	R32 (675)					
Quantity refrigerant pre-load		Kg	1.1	1.25	1.5	1.85	2.1	2.1
Tons of CO2 equivalent		t	0.743	0.844	1.013	1.249	1.418	1.418
Diameter of refrigerant piping on liquid/gas		mm (inches)	2 x 6.35(1/4") 2 x 9.52(3/8")	2 x 6.35(1/4") 2 x 9.52(3/8")	3 x 6.35(1/4") 3 x 9.52(3/8")	3 x 6.35(1/4") 3 x 9.52(3/8")	4 x 6.35(1/4") 3 x 9.52(3/8") + 1 x 12.74(1/2")	4 x 6.35(1/4") 3 x 9.52(3/8") + 1 x 12.74(1/2")
Total splitting length		m	40	40	60	60	80	80
Max length of a single refrigeration line		m	25	25	30	30	35	35
Max height difference I.U./O.U.		m	15	15	15	15	15	15
Max height difference between I.U.		m	10	10	10	10	10	10
Splitting length without additional load		m	15	15	22.5	22.5	30	30
Additional load		g/m	12	12	12	12	12	12
Product specifications								
Dimensions	LxDxH	mm	805x330x554	805x330x554	890x342x673	890x342x673	946x410x810	946x410x810
Net weight		Kg	31.6	35	43.3	48	62.1	68.8
Sound pressure level		dB(A)	65	65	65	68	67	67
Sound power level		dB(A)	56	54	57.5	58	61.5	63
Treated air volume		m³/h	2100	2100	3000	3000	3800	4000
Operating limits (outside temperature)	Cooling	°C	-15~50					
Operating limits (outside temperature)	Heating	°C	-15~24					

Energy efficiency values refer to the following combinations: HCKU 471 Z2 + 2 x HKEU 203 ZL - HCKU 531 Z2 + 2 x HKEU 263 ZAL - HCKU 601 Z3 + 3 x HKEU 203 ZL - HCKU 761 Z3 + 3 x HKEU 263 ZAL - HCKU 810 Z4 + 4 x HKEU 203 ZL - HCKU 1060 Z4 + 4 x HKEU 263 ZAL.

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

V-DESIGN PLUS DC INVERTER MULTISPLIT INDOOR UNITS

Wall HKEMM 262-352 ZAL

Dark silver

Air Guardian filter: generates more than 3 million **positive and negative ions** per cubic metre. For breathing air that is free of dust, allergens and pollutants

Light effects: blue light when in cooling or red light when in heating

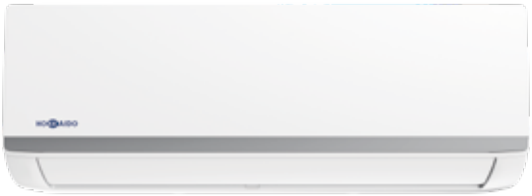
Automatic brightness adjustment
Remote control included as standard

Wi-Fi
optional

Model			HKEMM 262 ZAL	HKEMM 352 ZAL
Type			Indoor wall unit	
Control (included)			Remote control	
Rated capacity	Cooling	kW	2.60	3.50
	Heating	kW	2.90	3.80
Electrical data				
Power supply	Outdoor unit	Ph-V-Hz	1~220~240V-50Hz	
Connection wires between I.U. and O.U.		no.	4	4
Refrigerant circuit				
Diameter of refrigerant piping on liquid/gas		mm (inches)	6.35(1/4") / 9.52(3/8")	6.35(1/4") / 9.52(3/8")
Product specifications				
Dimensions	LxDxH	mm	897x182x312	897x182x312
Net weight		Kg	10.5	10.5
Sound pressure level	Hi	dB(A)	51	51
Sound power level	Hi/Mi/Lo/ULo	dB(A)	37.5/32/24	37.5/32/24
Treated air volume	Hi/Mi/Lo	m³/h	558/478/384	558/478/384
Optional parts				
Wi-Fi module			HKM-WiFi	
Wired remote control			NO	
Centralized control			NO	

INAZAMI DC INVERTER MULTISPLIT INDOOR UNITS

Wall HKEMM 266-356 ZAL



Health filter: eliminates harmful substances and provides fresh, clean air

"3D flow" air diffusion
Settable **Silent function**

Anti-freeze function 8° C
Remote control included as standard

Wi-Fi
optional

Model			HKEMM 266 ZAL	HKEMM 356 ZAL
Type			Indoor wall unit	
Control (included)			Remote control	
Rated capacity	Cooling	kW	2.60	3.50
	Heating	kW	2.80	3.80
Electrical data				
Power supply	Outdoor unit	Ph-V-Hz	1~220~240V-50Hz	
Connection wires between I.U. and O.U.		no.	4	4
Refrigerant circuit				
Diameter of refrigerant piping on liquid/gas		mm (inches)	6.35(1/4") / 9.52(3/8")	6.35(1/4") / 9.52(3/8")
Product specifications				
Dimensions	LxDxH	mm	835x208x295	835x208x295
Net weight		Kg	8.7	8.7
Sound pressure level	Hi	dB(A)	54	55
Sound power level	Hi/Mi/Lo/ULo	dB(A)	37/31/22	39/33/22
Treated air volume	Hi/Mi/Lo	m³/h	510/360/300	520/370/310
Optional parts				
Wi-Fi module			HKM-WiFi	
Wired remote control			NO	
Centralized control			NO	

ACTIVE LINE
DC INVERTER MULTISPLIT INDOOR UNITS

Wall HKEU 203 ZL - HKEU 263 ZAL - HKEU 353 ZAL-1 - HKEU 533 ZAL

- Cold catalyst filter
- High density filter
- Self-cleaning function
- Self-diagnosis function
- Anti-freeze function 8° C
- Refrigerant leak detection
- Remote control included as standard

Wi-Fi optional

Model			HKEU 203 ZL	HKEU 263 ZAL	HKEU 353 ZAL-1	HKEU 533 ZAL
Type			Indoor wall unit			
Control (included)			Remote control			
Rated capacity	Cooling	kW	2.10	2.60	3.50	5.30
	Heating	kW	2.30	2.90	3.80	5.60
Electrical data						
Power supply	Outdoor unit	Ph-V-Hz	1~220~240V-50Hz			
Connection wires between I.U. and O.U.		no.	4	4	4	4
Refrigerant circuit						
Diameter of refrigerant piping on liquid/gas		mm (inches)	6.35(1/4") / 9.52(3/8")	6.35(1/4") / 9.52(3/8")	6.35(1/4") / 9.52(3/8")	6.35(1/4") / 12.74(1/2")
Product specifications						
Dimensions	LxDxH	mm	805x194x285	805x194x285	805x194x285	957x213x302
Net weight		Kg	7.5	7.6	7.6	10
Sound pressure level	Hi	dB(A)	54	54	55	55
Sound power level	Hi/Mi/Lo/ULo	dB(A)	40/30/26/21	38.5/32/25	40.5/34.5/25	44/37/30/25
Treated air volume	Hi/Mi/Lo	m³/h	520/460/340	466/360/325	540/430/314	840/680/540
Optional parts						
Wi-Fi module			HKM-WiFi			
Wired remote control			NO			
Centralized control			NO			

MULTISPLIT INDOOR UNITS

Compact cassette 60x60 HTFU 351-531 ZAL

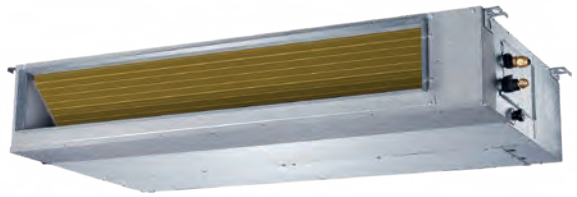
- **8-ways TFP 200 ZA** panel with 360° air diffusion
- Pre-set for external air inlet
- Condensate drain pump included with possibility of raising the discharge up to 750 mm from the lower height
- Remote control included as standard

Wi-Fi optional

Model			HTFU 351 ZAL	HTFU 531 ZAL
Type			Indoor cassette unit	
Control (included)			Remote control	
Rated capacity	Cooling	kW	3.50	5.30
	Heating	kW	4.10	5.40
Electrical data				
Power supply	Outdoor unit	Ph-V-Hz	1~220~240V-50Hz	
Connection wires between I.U. and O.U.		no.	4	4
Refrigerant circuit				
Diameter of refrigerant piping on liquid/gas		mm (inches)	6.35(1/4") / 9.52(3/8")	6.35(1/4") / 12.74(1/2")
Product specifications				
Dimensions	LxDxH	mm	570x570x260	570x570x260
Net weight		Kg	16.3	16.5
Sound pressure level	Hi	dB(A)	56	57
Sound power level	Hi/Mi/Lo/ULo	dB(A)	41/36/33/25.5	43/39.5/35.5/29
Treated air volume	Hi/Mi/Lo	m³/h	620/510/420	720/620/500
Accessories				
Decorative panel			TFP 200 ZA	
Optional parts				
Wi-Fi module			On demand	
Wired remote control			DHW-WT-ZA	
Centralized control			DTC IHXR TOUCH / DTCWT IHXR	
Wi-Fi centralized control			XRV Mobile BMS	

MULTISPLIT INDOOR UNITS

Medium static pressure ducted HUCU 351-531 ZAL



Compatible with systems AIRZONE
Condensate drain pump included with possibility of raising the discharge up to 750 mm from the lower height

100 Pa | Automatic adjustment of the static pressure of the fan at constant flow rate

Wired remote control included

Wi-Fi optional

Model			HUCU 351 ZAL	HUCU 531 ZAL
Type			Indoor ducted unit	
Control (included)			Wired remote	
Rated capacity	Cooling	kW	3.50	5.30
	Heating	kW	3.80	5.60
Electrical data				
Power supply	Outdoor unit	Ph-V-Hz	1~220~240V-50Hz	
Connection wires between I.U. and O.U.		no.	4	4
Refrigerant circuit				
Diameter of refrigerant piping on liquid/gas		mm (inches)	6.35(1/4") / 9.52(3/8")	6.35(1/4") / 12.74(1/2")
Product specifications				
Dimensions	LxDxH	mm	700x506x200	880x674x210
Net weight		Kg	17.8	24.4
Sound pressure level	Hi	dB(A)	57	58
Sound power level	Hi/Mi/Lo/ULo	dB(A)	34.5/30.5/29/23	41/38/34/26
Treated air volume	Hi/Mi/Lo	m³/h	600/480/300	911/706.3/515.2
Fan static pressure	Std/Max	Pa	25/60	25/100
Optional parts				
Wi-Fi module			On demand	
Centralized control			DTC IHXR TOUCH / DTCWT IHXR	
Wi-Fi centralized control			XRV Mobile BMS	

MULTISPLIT INDOOR UNITS

Console HFIU 351-501 ZAL

Extremely thin with only **200 mm depth**

Possibility of **double delivery**, from upper and lower flap

Double installation option, floor or wall using a bracket
Remote control included as standard

Wi-Fi optional

Model			HFIU 351 ZAL	HFIU 501 ZAL
Type			Indoor console unit	
Control (included)			Remote control	
Rated capacity	Cooling	kW	3.50	4.90
	Heating	kW	3.80	5.20
Electrical data				
Power supply	Outdoor unit	Ph-V-Hz	1~220~240V-50Hz	
Connection wires between I.U. and O.U.		no.	4	4
Refrigerant circuit				
Diameter of refrigerant piping on liquid/gas		mm (inches)	6.35(1/4") / 9.52(3/8")	6.35(1/4") / 12.74(1/2")
Product specifications				
Dimensions	LxDxH	mm	794x200x621	794x200x621
Net weight		Kg	14.9	14.9
Sound pressure level	Hi	dB(A)	54	55
Sound power level	Hi/Mi/Lo/ULo	dB(A)	37/34/27	41/38/32
Treated air volume	Hi/Mi/Lo	m³/h	650/580/490	780/690/600
Optional parts				
Wi-Fi module			HKM-WiFi-TB	
Wired remote control			NO	
Centralized control			NO	
Wi-Fi centralized control			NO	

MULTISPLIT INDOOR UNITS

Ceiling HSFU 531 ZAL

- Excellent installation flexibility
- Turbo function, for heating and cooling rooms quickly
- Remote control included as standard

Wi-Fi optional

Model			HSFU 531 ZAL
Type			**Indoor ceiling unit**
Control (included)			Remote control
Rated capacity	Cooling	kW	5.30
	Heating	kW	5.60
Electrical data			
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz
Connection wires between I.U. and O.U.		no.	4
Refrigerant circuit			
Diameter of refrigerant piping on liquid/gas		mm (inches)	6.35(1/4") / 12.74(1/2")
Product specifications			
Dimensions	LxDxH	mm	1068x675x235
Net weight		Kg	28
Sound pressure level	Hi	dB(A)	57
Sound power level	Hi/Mi/Lo/ULo	dB(A)	43.5/41/36.5/24
Treated air volume	Hi/Mi/Lo	m^3/h	958/839/723
Optional parts			
Wi-Fi module			On demand
Wired remote control			DHW-WT-ZA
Centralized control			DTC IHXR TOUCH / DTCWT IHXR
Wi-Fi centralized control			XRV Mobile BMS

TECHNICAL APPENDIX

COMBINATIONS

HCKU 471 Z2 Cooling

Combinations	Indoor Units	Combination		Rated cooling capacity (kW)		Total cooling capacity (kW)	Absorbed power (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy class
		Unit A	Unit B	Unit A	Unit B	std.	std.	std.				
1x2	20+20	20	20	2.05	2.05	4.10	1.27	3.23	4.10	5.60	258	A+
	20+26	20	26	1.78	2.32	4.10	1.27	3.23	4.10	5.60	258	A+
	20+35	20	35	1.49	2.61	4.10	1.27	3.23	4.10	5.60	258	A+
	26+26	**26**	**26**	**2.05**	**2.05**	**4.10**	**1.27**	**3.23**	**4.10**	**5.60**	**258**	**A+**
	26+35	26	35	1.75	2.35	4.10	1.27	3.23	4.10	5.60	258	A+

Energy Class = EU Delegated Regulation No. 626/2011 on the new labelling indicating the energy consumption of air conditioners.
SEER = EU Regulation No. 206/2012 - - Value measured according to the harmonised standard EN 14825.
EER = Value measured according to the harmonised standard EN 14511.

Connectable indoor units:
size 20 = HKEU 203 ZL; **size 26** = HKEU 263 ZAL, HKEMM 266 ZAL, HKEMM 262 ZAL
size 35 = HKEU 353 ZAL-1, HKEMM 356 ZAL, HKEMM 352 ZAL, HUCU 351 ZAL, HTFU 351 ZAL, HFIU 351 ZAL

HCKU 471 Z2 Heating

Combinations	Indoor Units	Combination		Rated heating capacity (kW)		Total heating capacity (kW)	Absorbed power (kW)	COP (W/W)	Pdesignh	SCOP	Annual consumption (kWh)	Energy class
		Unit A	Unit B	Unit A	Unit B	std.	std.	std.				
1x2	20+20	20	20	2.20	2.20	4.40	1.19	3.71	3.70	3.80	1400	A
	20+26	20	26	1.91	2.49	4.40	1.19	3.71	3.70	3.80	1400	A
	20+35	20	35	1.60	2.80	4.40	1.19	3.71	3.70	3.80	1400	A
	26+26	**26**	**26**	**2.20**	**2.20**	**4.40**	**1.19**	**3.71**	**3.70**	**3.80**	**1400**	**A**
	26+35	26	35	1.88	2.52	4.40	1.19	3.71	3.70	3.80	1400	A

Energy Class = EU Delegated Regulation No. 626/2011 on the new labelling indicating the energy consumption of air conditioners.
SCOP = EU Regulation No. 206/2012 - - Value measured according to the harmonised standard EN 14825.
COP = Value measured according to the harmonised standard EN 14511.

Connectable indoor units:
size 20 = HKEU 203 ZL; **size 26** = HKEU 263 ZAL, HKEMM 266 ZAL, HKEMM 262 ZAL
size 35 = HKEU 353 ZAL-1, HKEMM 356 ZAL, HKEMM 352 ZAL, HUCU 351 ZAL, HTFU 351 ZAL, HFIU 351 ZAL

HCKU 531 Z2 Cooling

Combinations	Indoor Units	Combination		Rated cooling capacity (kW)		Total cooling capacity (kW)	Absorbed power (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy class
		Unit A	Unit B	Unit A	Unit B	std.	std.	std.				
	53	53	—	5.00	—	5.00	1.54	3.25	—	—	—	—
1x2	20+20	20	20	2.10	2.10	4.20	1.30	3.24	4.20	6.10	241	A++
	20+26	20	26	2.04	2.66	4.70	1.46	3.23	4.70	6.10	270	A++
	20+35	20	35	1.89	3.31	5.20	1.61	3.23	5.30	6.10	309	A++
	20+53	20	53	1.47	3.88	5.35	1.66	3.23	5.30	6.10	309	A++
	26+26	**26**	**26**	**2.65**	**2.65**	**5.30**	**1.64**	**3.23**	**5.30**	**6.10**	**309**	**A++**
	26+35	26	35	2.26	3.04	5.30	1.64	3.23	5.30	6.10	309	A++
	26+53	26	53	1.76	3.59	5.35	1.66	3.23	5.30	6.10	309	A++
	35+35	35	35	2.65	2.65	5.30	1.64	3.23	5.30	6.10	309	A++

Energy Class = EU Delegated Regulation No. 626/2011 on the new labelling indicating the energy consumption of air conditioners.
SEER = EU Regulation No. 206/2012 - - Value measured according to the harmonised standard EN 14825.
EER = Value measured according to the harmonised standard EN 14511.

Connectable indoor units:
size 20 = HKEU 203 ZL; **size 26** = HKEU 263 ZAL, HKEMM 266 ZAL, HKEMM 262 ZAL
size 35 = HKEU 353 ZAL-1, HKEMM 356 ZAL, HKEMM 352 ZAL, HUCU 351 ZAL, HTFU 351 ZAL, HFIU 351 ZAL
size 53 = HKEU 533 ZAL, HUCU 531 ZAL, HTFU 531 ZAL, HSFU 531 ZAL, HFIU 501 ZAL

HCKU 531 Z2 Heating

Combinations	Indoor Units	Combination		Rated heating capacity (kW)		Total heating capacity (kW)	Absorbed power (kW)	COP (W/W)	Pdesignh	SCOP	Annual consumption (kWh)	Energy class
		Unit A	Unit B	Unit A	Unit B	std.	std.	std.				
	53	53	—	5.20	—	5.20	1.40	3.71	—	—	—	—
1x2	20+20	20	20	2.50	2.50	5.00	1.35	3.71	4.80	3.80	1768	A
	20+26	20	26	2.30	3.00	5.30	1.43	3.71	4.80	3.80	1768	A
	20+35	20	35	2.00	3.50	5.50	1.48	3.71	4.80	3.80	1768	A
	20+53	20	53	1.56	4.14	5.70	1.54	3.71	4.80	3.80	1768	A
	26+26	**26**	**26**	**2.79**	**2.79**	**5.57**	**1.50**	**3.71**	**4.80**	**3.80**	**1768**	**A**
	26+35	26	35	2.39	3.21	5.60	1.51	3.71	4.80	3.80	1768	A
	26+53	26	53	1.91	3.89	5.80	1.56	3.71	4.80	3.80	1768	A
	35+35	35	35	2.80	2.80	5.60	1.51	3.71	4.80	3.80	1768	A

Energy Class = EU Delegated Regulation No. 626/2011 on the new labelling indicating the energy consumption of air conditioners.
SCOP = EU Regulation No. 206/2012 - - Value measured according to the harmonised standard EN 14825.
COP = Value measured according to the harmonised standard EN 14511.

Connectable indoor units:
size 20 = HKEU 203 ZL; **size 26** = HKEU 263 ZAL, HKEMM 266 ZAL, HKEMM 262 ZAL
size 35 = HKEU 353 ZAL-1, HKEMM 356 ZAL, HKEMM 352 ZAL, HUCU 351 ZAL, HTFU 351 ZAL, HFIU 351 ZAL
size 53 = HKEU 533 ZAL, HUCU 531 ZAL, HTFU 531 ZAL, HSFU 531 ZAL, HFIU 501 ZAL

COMBINATIONS

HCKU 601 Z3 Cooling

Combinations	Indoor Units	Combination			Rated cooling capacity (kW)			Total cooling capacity (kW)	Absorbed power (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy class
		Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	std.	std.	std.				
1x2	20+35	20	35	—	1.93	3.37	—	5.30	1.64	3.23	5.30	5.60	331	A+
	20+53	20	53		1.73	4.57	—	6.30	1.95	3.23	6.10	5.60	381	A+
	26+26	26	26	—	2.65	2.65	—	5.30	1.64	3.23	5.30	5.60	331	A+
	26+35	26	35	—	2.56	3.44	—	6.00	1.86	3.23	6.00	5.60	375	A+
	26+53	26	53	—	2.07	4.23	—	6.30	1.94	3.24	6.10	5.60	381	A+
	35+35	35	35	—	3.10	3.10	—	6.20	1.92	3.23	6.10	5.60	381	A+
1x3	20+20+20	20	20	20	2.03	2.03	2.03	6.10	1.89	3.23	6.10	6.10	350	A++
	20+20+26	20	20	26	1.91	1.91	2.48	6.30	1.95	3.23	6.10	6.10	350	A++
	20+20+35	20	20	35	1.68	1.68	2.94	6.30	1.94	3.24	6.10	6.10	350	A++
	20+26+26	20	26	26	1.75	2.28	2.28	6.30	1.94	3.24	6.10	6.10	350	A++
	20+26+35	20	26	35	1.56	2.02	2.72	6.30	1.94	3.24	6.10	6.10	350	A++
	26+26+26	**26**	**26**	**26**	**2.10**	**2.10**	**2.10**	**6.30**	**1.94**	**3.24**	**6.10**	**6.10**	**350**	**A++**
	26+26+35	26	26	35	1.88	1.88	2.53	6.30	1.94	3.24	6.10	6.10	350	A++

Energy Class = **EU** Delegated Regulation No. 626/2011 on the new labelling indicating the energy consumption of air conditioners.
SEER = EU Regulation No. 206/2012 - - Value measured according to the harmonised standard EN 14825.
EER = Value measured according to the harmonised standard EN 14511.

Connectable indoor units:
size 20 = HKEU 203 ZL; **size 26** = HKEU 263 ZAL, HKEMM 266 ZAL, HKEMM 262 ZAL
size 35 = HKEU 353 ZAL-1, HKEMM 356 ZAL, HKEMM 352 ZAL, HUCU 351 ZAL, HTFU 351 ZAL, HFIU 351 ZAL
size 53 = HKEU 533 ZAL, HUCU 531 ZAL, HTFU 531 ZAL, HSFU 531 ZAL, HFIU 501 ZAL

HCKU 601 Z3 Heating

Combinations	Indoor Units	Combination			Rated heating capacity (kW)			Total cooling heating (kW)	Absorbed power (kW)	COP (W/W)	Pdesignc	SCOP	Annual consumption (kWh)	Energy class
		Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	std.	std.	std.				
1x2	20+35	20	35	—	2.15	3.75	—	5.90	1.59	3.71	4.80	3.80	1768	A
	20+53	20	53		1.78	4.72	—	6.50	1.75	3.71	5.12	3.80	1886	A+
	26+26	26	26	—	2.95	2.95	—	5.90	1.59	3.71	4.80	3.80	1768	A
	26+35	26	35	—	2.69	3.61	—	6.30	1.70	3.71	5.12	3.80	1886	A+
	26+53	26	53	—	2.17	4.43	—	6.60	1.78	3.71	5.12	3.80	1886	A+
	35+35	35	35	—	3.15	3.15	—	6.30	1.70	3.71	5.12	3.80	1886	A+
1x3	20+20+20	20	20	20	2.20	2.20	2.20	6.60	1.78	3.71	5.40	4.00	1910	A+
	20+20+26	20	20	26	2.02	2.02	2.62	6.65	1.79	3.72	5.40	4.00	1910	A+
	20+20+35	20	20	35	1.79	1.79	3.13	6.70	1.80	3.72	5.40	4.00	1910	A+
	20+26+26	20	26	26	1.86	2.42	2.42	6.70	1.80	3.72	5.40	4.00	1910	A+
	20+26+35	20	26	35	1.65	2.15	2.90	6.70	1.80	3.72	5.40	4.00	1910	A+
	26+26+26	**26**	**26**	**26**	**2.23**	**2.23**	**2.23**	**6.70**	**1.81**	**3.71**	**5.40**	**4.00**	**1910**	**A+**
	26+26+35	26	26	35	2.00	2.00	2.70	6.70	1.80	3.72	5.40	4.00	1910	A+

Energy Class = **EU** Delegated Regulation No. 626/2011 on the new labelling indicating the energy consumption of air conditioners.
SCOP = EU Regulation No. 206/2012 - - Value measured according to the harmonised standard EN 14825.
COP = Value measured according to the harmonised standard EN 14511.

Connectable indoor units:
size 20 = HKEU 203 ZL; **size 26** = HKEU 263 ZAL, HKEMM 266 ZAL, HKEMM 262 ZAL
size 35 = HKEU 353 ZAL-1, HKEMM 356 ZAL, HKEMM 352 ZAL, HUCU 351 ZAL, HTFU 351 ZAL, HFIU 351 ZAL
size 53 = HKEU 533 ZAL, HUCU 531 ZAL, HTFU 531 ZAL, HSFU 531 ZAL, HFIU 501 ZAL

COMBINATIONS

HCKU 761 Z3 Cooling

Combinations	Indoor Units	Combination			Rated cooling capacity (kW)			Total cooling capacity (kW)	Absorbed power (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy class
		Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	std.	std.	std.				
1x2	20+35	20	35	—	1.93	3.37	—	5.30	1.64	3.23	5.30	5.60	331	A+
	20+53	20	53	—	1.78	4.72	—	6.50	2.01	3.23	6.50	5.60	406	A+
	26+26	26	26	—	2.65	2.65	—	5.30	1.64	3.23	5.30	5.60	331	A+
	26+35	26	35	—	2.56	3.44	—	6.00	1.86	3.23	6.00	5.60	375	A+
	26+53	26	53	—	2.24	4.56	—	6.80	2.09	3.25	6.80	5.60	425	A+
	35+35	35	35	—	3.15	3.15	—	6.30	1.94	3.24	6.30	5.60	394	A+
	35+53	35	53	—	2.70	4.10	—	6.80	2.09	3.25	6.80	5.60	425	A+
1x3	20+20+20	20	20	20	2.43	2.43	2.43	7.30	2.26	3.23	7.30	6.10	419	A++
	20+20+26	20	20	26	2.24	2.24	2.92	7.40	2.29	3.23	7.40	6.10	425	A++
	20+20+35	20	20	35	2.11	2.11	3.69	7.90	2.45	3.23	7.90	6.10	453	A++
	20+20+53	20	20	53	1.70	1.70	4.50	7.90	2.43	3.25	7.90	6.10	453	A++
	20+26+26	20	26	26	2.11	2.74	2.74	7.60	2.35	3.23	7.60	6.10	436	A++
	20+26+35	20	26	35	1.95	2.54	3.41	7.90	2.45	3.23	7.90	6.10	453	A++
	20+26+53	20	26	53	1.60	2.07	4.23	7.90	2.43	3.25	7.90	6.10	453	A++
	20+35+35	20	35	35	1.76	3.07	3.07	7.90	2.43	3.25	7.90	6.10	453	A++
	26+26+26	**26**	**26**	**26**	**2.63**	**2.63**	**2.63**	**7.90**	**2.45**	**3.23**	**7.90**	**6.10**	**453**	**A++**
	26+26+35	26	26	35	2.36	2.36	3.18	7.90	2.43	3.25	7.90	6.10	453	A++
	26+35+35	26	35	35	2.14	2.88	2.88	7.90	2.43	3.25	7.90	6.10	453	A++
	35+35+35	35	35	35	2.63	2.63	2.63	7.90	2.43	3.25	7.90	6.10	453	A++

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EER = Value measured according to the harmonised standard EN 14511.

Connectable indoor units:
size 20 = HKEU 203 ZL; **size 26** = HKEU 263 ZAL, HKEMM 266 ZAL, HKEMM 262 ZAL
size 35 = HKEU 353 ZAL-1, HKEMM 356 ZAL, HKEMM 352 ZAL, HUCU 351 ZAL, HTFU 351 ZAL, HFIU 351 ZAL
size 53 = HKEU 533 ZAL, HUCU 531 ZAL, HTFU 531 ZAL, HSFU 531 ZAL, HFIU 501 ZAL

HCKU 761 Z3 Heating

Combinations	Indoor Units	Combination			Rated heating capacity (kW)			Total heating capacity (kW)	Absorbed power (kW)	COP (W/W)	Pdesignh	SCOP	Annual consumption (kWh)	Energy class
		Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	std.	std.	std.				
1x2	20+35	20	35	—	2.18	3.82	—	6.00	1.61	3.73	5.10	3.80	1879	A
	20+53	20	53	—	1.92	5.08	—	7.00	1.88	3.73	5.10	3.80	1879	A
	26+26	26	26	—	3.00	3.00	—	6.00	1.61	3.73	5.10	3.80	1879	A
	26+35	26	35	—	2.69	3.61	—	6.30	1.69	3.73	5.10	3.80	1879	A
	26+53	26	53	—	2.30	4.70	—	7.00	1.88	3.73	5.10	3.80	1879	A
	35+35	35	35	—	3.25	3.25	—	6.50	1.74	3.73	5.10	3.80	1879	A
	35+53	35	53	—	2.78	4.22	—	7.00	1.88	3.73	5.10	3.80	1879	A
1x3	20+20+20	20	20	20	2.27	2.27	2.27	6.80	1.82	3.73	5.60	4.00	1960	A+
	20+20+26	20	20	26	2.12	2.12	2.76	7.00	1.88	3.73	5.60	4.00	1960	A+
	20+20+35	20	20	35	2.11	2.11	3.69	7.90	2.12	3.73	5.60	4.00	1960	A+
	20+20+53	20	20	53	1.78	1.78	4.73	8.30	2.23	3.73	5.60	4.00	1960	A+
	20+26+26	20	26	26	2.19	2.85	2.85	7.90	2.12	3.73	5.60	4.00	1960	A+
	20+26+35	20	26	35	2.02	2.63	3.54	8.20	2.20	3.73	5.60	4.00	1960	A+
	20+26+53	20	26	53	1.68	2.18	4.44	8.30	2.23	3.73	5.60	4.00	1960	A+
	20+35+35	20	35	35	1.84	3.23	3.23	8.30	2.23	3.73	5.60	4.00	1960	A+
	26+26+26	**26**	**26**	**26**	**2.73**	**2.73**	**2.73**	**8.20**	**2.20**	**3.73**	**5.60**	**4.00**	**1960**	**A+**
	26+26+35	26	26	35	2.48	2.48	3.34	8.30	2.23	3.73	5.60	4.00	1960	A+
	26+35+35	26	35	35	2.25	3.03	3.03	8.30	2.23	3.73	5.60	4.00	1960	A+
	35+35+35	35	35	35	2.77	2.77	2.77	8.30	2.23	3.73	5.60	4.00	1960	A+

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COP = Value measured according to the harmonised standard EN 14511.

Connectable indoor units:
size 20 = HKEU 203 ZL; **size 26** = HKEU 263 ZAL, HKEMM 266 ZAL, HKEMM 262 ZAL
size 35 = HKEU 353 ZAL-1, HKEMM 356 ZAL, HKEMM 352 ZAL, HUCU 351 ZAL, HTFU 351 ZAL, HFIU 351 ZAL
size 53 = HKEU 533 ZAL, HUCU 531 ZAL, HTFU 531 ZAL, HSFU 531 ZAL, HFIU 501 ZAL

COMBINATIONS

HCKU 810 Z4 Cooling

Combinations	Indoor Units	Combination				Rated cooling capacity (kW)				Total cooling capacity (kW)	Absorbed power (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy class
		Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	std.	std.	std.				
1x2	20+35	20	35	—	—	1.93	3.37	—	—	5.30	1.64	3.23	5.30	5.10	364	A
	20+53	20	53	—	—	1.92	5.08	—	—	7.00	2.17	3.23	7.00	5.10	480	A
	26+26	26	26	—	—	2.65	2.65	—	—	5.30	1.64	3.23	5.30	5.10	364	A
	26+35	26	35	—	—	2.56	3.44	—	—	6.00	1.86	3.23	6.00	5.10	412	A
	26+53	26	53	—	—	2.40	4.90	—	—	7.30	2.26	3.23	7.30	5.10	501	A
	35+35	35	35	—	—	3.25	3.25	—	—	6.50	2.01	3.23	6.50	5.10	446	A
	35+53	35	53	—	—	2.90	4.40	—	—	7.30	2.26	3.23	7.30	5.10	501	A
	53+53	53	53	—	—	3.75	3.75	—	—	7.50	2.32	3.23	7.50	5.10	515	A
1x3	20+20+20	20	20	20	—	2.00	2.00	2.00	—	6.00	1.86	3.23	6.00	5.60	375	A+
	20+20+26	20	20	26	—	1.97	1.97	2.56	—	6.50	2.01	3.23	6.50	5.60	406	A+
	20+20+35	20	20	35	—	1.89	1.89	3.31	—	7.10	2.20	3.23	7.10	5.60	444	A+
	20+20+53	20	20	53	—	1.68	1.68	4.45	—	7.80	2.41	3.23	7.80	5.60	488	A+
	20+26+26	20	26	26	—	1.89	2.46	2.68	—	6.80	2.11	3.23	6.80	5.60	425	A+
	20+26+35	20	26	35	—	1.85	2.41	3.24	—	7.50	2.32	3.23	7.50	5.60	469	A+
	20+26+53	20	26	53	—	1.58	2.05	4.18	—	7.80	2.41	3.23	7.80	5.60	488	A+
	20+35+35	20	35	35	—	1.73	3.03	3.03	—	7.80	2.41	3.23	7.80	5.60	488	A+
	20+35+53	20	35	53	—	1.44	2.53	3.83	—	7.80	2.41	3.23	7.80	5.60	488	A+
	26+26+26	26	26	26	—	2.37	2.37	2.37	—	7.10	2.20	3.23	7.10	5.60	444	A+
	26+26+35	26	26	35	—	2.33	2.33	3.14	—	7.80	2.41	3.23	7.80	5.60	488	A+
	26+26+53	26	26	53	—	1.93	1.93	3.94	—	7.80	2.41	3.23	7.80	5.60	488	A+
	26+35+35	26	35	35	—	2.11	2.84	2.84	—	7.80	2.41	3.23	7.80	5.60	488	A+
	26+35+53	26	35	53	—	1.78	2.39	3.63	—	7.80	2.41	3.23	7.80	5.60	488	A+
	35+35+35	35	35	35	—	2.60	2.60	2.60	—	7.80	2.41	3.23	7.80	5.60	488	A+
1x4	20+20+20+20	20	20	20	20	2.05	2.05	2.05	2.05	8.21	2.54	3.23	8.21	6.10	471	A++
	20+20+20+26	20	20	20	26	1.91	1.91	1.91	2.48	8.21	2.54	3.23	8.21	6.10	471	A++
	20+20+20+35	20	20	20	35	1.73	1.73	1.73	3.02	8.21	2.54	3.23	8.21	6.10	471	A++
	20+20+20+53	20	20	20	53	1.45	1.45	1.45	3.85	8.21	2.53	3.25	8.21	6.10	471	A++
	20+20+26+26	20	20	26	26	1.78	1.78	2.32	2.32	8.21	2.54	3.23	8.21	6.10	471	A++
	20+20+26+35	20	20	26	35	1.63	1.63	2.11	2.85	8.21	2.54	3.23	8.21	6.10	471	A++
	20+20+35+35	20	20	35	35	1.49	1.49	2.61	2.61	8.21	2.53	3.24	8.21	6.10	471	A++
	20+26+26+26	20	26	26	26	1.68	2.18	2.18	2.18	8.21	2.54	3.23	8.21	6.10	471	A++
	20+26+26+35	20	26	26	35	1.53	1.99	1.99	2.69	8.21	2.53	3.24	8.21	6.10	471	A++
	20+26+35+35	20	26	35	35	1.42	1.84	2.48	2.48	8.21	2.53	3.25	8.21	6.10	471	A++
	26+26+26+26	**26**	**26**	**26**	**26**	**2.05**	**2.05**	**2.05**	**2.05**	**8.21**	**2.53**	**3.24**	**8.21**	**6.10**	**471**	**A++**
	26+26+26+35	26	26	26	35	1.89	1.89	1.89	2.54	8.21	2.53	3.25	8.21	6.10	471	A++

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size 53 = HKEU 533 ZAL, HUCU 531 ZAL, HTFU 531 ZAL, HSFU 531 ZAL, HFIU 501 ZAL

COMBINATIONS

HCKU 810 Z4 Heating

Combinations	Indoor Units	Combination				Rated heating capacity (kW)				Total heating capacity (kW)	Absorbed power (kW)	COP (W/W)	Pdesignh	SCOP	Annual consumption (kWh)	Energy class
		Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	std.	std.	std.				
1x2	20+35	20	35	—	—	2.18	3.82	—	—	6.00	1.57	3.81	4.62	3.40	1902	A
	20+53	20	53	—	—	2.14	5.66	—	—	7.80	2.03	3.85	6.01	3.40	2473	A
	26+26	26	26	—	—	3.00	3.00	—	—	6.00	1.57	3.81	4.62	3.40	1902	A
	26+35	26	35	—	—	2.98	4.02	—	—	7.00	1.84	3.81	5.39	3.40	2219	A
	26+53	26	53	—	—	2.60	5.30	—	—	7.90	2.05	3.85	6.08	3.40	2505	A
	35+35	35	35	—	—	3.75	3.75	—	—	7.50	1.97	3.81	5.78	3.40	2378	A
	35+53	35	53	—	—	3.18	4.82	—	—	8.00	2.08	3.85	6.08	3.40	2505	A
	53+53	53	53	—	—	4.00	4.00	—	—	8.00	2.08	3.85	6.08	3.40	2505	A
1x3	20+20+20	20	20	20	—	2.33	2.33	2.33	—	7.00	1.79	3.90	5.39	3.50	2156	A
	20+20+26	20	20	26	—	2.36	2.36	3.07	—	7.80	2.00	3.90	6.01	3.50	2402	A
	20+20+35	20	20	35	—	2.24	2.24	3.92	—	8.40	2.14	3.92	6.10	3.50	2440	A
	20+20+53	20	20	53	—	1.85	1.85	4.90	—	8.60	2.19	3.92	6.20	3.50	2480	A
	20+26+26	20	26	26	—	2.33	3.03	2.68	—	8.40	2.14	3.92	6.10	3.50	2440	A
	20+26+35	20	26	35	—	2.10	2.73	3.67	—	8.50	2.17	3.92	6.20	3.50	2480	A
	20+26+53	20	26	53	—	1.74	2.26	4.60	—	8.60	2.18	3.95	6.20	3.50	2480	A
	20+35+35	20	35	35	—	1.91	3.34	3.34	—	8.60	2.19	3.92	6.20	3.50	2480	A
	20+35+53	20	35	53	—	1.59	2.79	4.22	—	8.60	2.18	3.95	6.20	3.50	2480	A
	26+26+26	26	26	26	—	2.87	2.87	2.87	—	8.60	2.19	3.92	6.20	3.50	2480	A
	26+26+35	26	26	35	—	2.57	2.57	3.46	—	8.60	2.19	3.92	6.20	3.50	2480	A
	26+26+53	26	26	53	—	2.13	2.13	4.34	—	8.60	2.18	3.95	6.20	3.50	2480	A
	26+35+35	26	35	35	—	2.33	3.14	3.14	—	8.60	2.19	3.92	6.20	3.50	2480	A
	26+35+53	26	35	53	—	1.96	2.64	4.00	—	8.60	2.18	3.95	6.20	3.50	2480	A
	35+35+35	35	35	35	—	2.87	2.87	2.87	—	8.60	2.18	3.95	6.20	3.50	2480	A
1x4	20+20+20+20	20	20	20	20	2.20	2.20	2.20	2.20	8.80	2.20	4.00	6.50	3.80	2395	A
	20+20+20+26	20	20	20	26	2.07	2.07	2.07	2.69	8.90	2.22	4.01	6.50	3.80	2395	A
	20+20+20+35	20	20	20	35	1.89	1.89	1.89	3.32	9.00	2.24	4.01	6.50	3.80	2395	A
	20+20+20+53	20	20	20	53	1.61	1.61	1.61	4.27	9.10	2.27	4.01	6.50	3.80	2395	A
	20+20+26+26	20	20	26	26	1.93	1.93	2.52	2.52	8.90	2.22	4.01	6.50	3.80	2395	A
	20+20+26+35	20	20	26	35	1.78	1.78	2.32	3.12	9.00	2.24	4.01	6.50	3.80	2395	A
	20+20+35+35	20	20	35	35	1.65	1.65	2.90	2.90	9.10	2.27	4.01	6.50	3.80	2395	A
	20+26+26+26	20	26	26	26	1.82	2.36	2.36	2.36	8.90	2.23	4.00	6.50	3.80	2395	A
	20+26+26+35	20	26	26	35	1.68	2.19	2.19	2.94	9.00	2.24	4.01	6.50	3.80	2395	A
	20+26+35+35	20	26	35	35	1.57	2.04	2.75	2.75	9.10	2.27	4.01	6.50	3.80	2395	A
	26+26+26+26	**26**	**26**	**26**	**26**	**2.23**	**2.23**	**2.23**	**2.23**	**8.90**	**2.22**	**4.01**	**6.50**	**3.80**	**2395**	**A**
	26+26+26+35	26	26	26	35	2.09	2.09	2.09	2.82	9.10	2.27	4.01	6.50	3.80	2395	A

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Connectable indoor units:
size 20 = HKEU 203 ZL; **size 26** = HKEU 263 ZAL, HKEMM 266 ZAL, HKEMM 262 ZAL
size 35 = HKEU 353 ZAL-1, HKEMM 356 ZAL, HKEMM 352 ZAL, HUCU 351 ZAL, HTFU 351 ZAL, HFIU 351 ZAL
size 53 = HKEU 533 ZAL, HUCU 531 ZAL, HTFU 531 ZAL, HSFU 531 ZAL, HFIU 501 ZAL

COMBINATIONS

HCKU 1060 Z4 Cooling

Combinations	Indoor Units	Combination				Rated cooling capacity (kW)				Total cooling capacity (kW)	Absorbed power (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy class
		Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	std.	std.	std.				
1x2	20+35	20	35	—	—	2.00	3.50	—	—	5.50	1.68	3.28	5.50	5.10	377	A
	20+53	20	53	—	—	1.92	5.08	—	—	7.00	2.13	3.28	7.00	5.20	471	A
	26+26	26	26	—	—	2.65	2.65	—	—	5.30	1.62	3.28	5.30	5.20	357	A
	26+35	26	35	—	—	2.56	3.44	—	—	6.00	1.83	3.28	6.00	5.20	404	A
	26+53	26	53	—	—	2.47	5.03	—	—	7.50	2.29	3.28	7.50	5.20	505	A
	35+35	35	35	—	—	3.50	3.50	—	—	7.00	2.13	3.28	7.00	5.20	471	A
	35+53	35	53	—	—	3.38	5.12	—	—	8.50	2.59	3.28	8.50	5.20	572	A
	53+53	53	53	—	—	5.00	5.00	—	—	10.00	3.09	3.24	10.00	5.20	673	A
1x3	20+20+20	20	20	20	—	2.00	2.00	2.00	—	6.00	1.80	3.33	6.00	5.60	375	A+
	20+20+26	20	20	26	—	1.97	1.97	2.56	—	6.50	1.98	3.28	6.50	5.60	406	A+
	20+20+35	20	20	35	—	2.00	2.00	3.50	—	7.50	2.29	3.28	7.50	5.60	469	A+
	20+20+53	20	20	53	—	1.94	1.94	5.13	—	9.00	2.74	3.28	9.00	5.80	543	A+
	20+26+26	20	26	26	—	1.94	2.53	2.53	—	7.00	2.13	3.28	7.00	5.80	422	A+
	20+26+35	20	26	35	—	1.98	2.57	3.46	—	8.00	2.44	3.28	8.00	5.80	483	A+
	20+26+53	20	26	53	—	1.92	2.49	5.09	—	9.50	2.93	3.24	9.50	5.80	573	A+
	20+35+35	20	35	35	—	2.00	3.50	3.50	—	9.00	2.78	3.24	9.00	5.80	543	A+
	20+35+53	20	35	53	—	1.85	3.24	4.91	—	10.00	3.09	3.24	10.00	5.80	603	A+
	20+53+53	20	53	53	—	1.59	4.21	4.21	—	10.00	3.09	3.24	10.00	5.80	603	A+
	26+26+26	26	26	26	—	2.50	2.50	2.50	—	7.50	2.31	3.24	7.50	5.80	453	A+
	26+26+35	26	26	35	—	2.54	2.54	3.42	—	8.50	2.62	3.24	8.50	5.80	513	A+
	26+26+53	26	26	53	—	2.48	2.48	5.05	—	10.00	3.09	3.24	10.00	5.80	603	A+
	26+35+35	26	35	35	—	2.57	3.46	3.46	—	9.50	2.93	3.24	9.50	5.80	573	A+
	26+35+53	26	35	53	—	2.28	3.07	4.65	—	10.00	3.09	3.24	10.00	5.80	603	A+
	26+53+53	26	53	53	—	1.97	4.02	4.02	—	10.00	3.09	3.24	10.00	5.80	603	A+
	35+35+35	35	35	35	—	3.33	3.33	3.33	—	10.00	3.09	3.24	10.00	5.80	603	A+
	35+35+53	35	35	53	—	2.85	2.85	4.31	—	10.00	3.09	3.24	10.00	5.80	603	A+
	35+53+53	35	53	53	—	2.48	3.76	3.76	—	10.00	3.09	3.24	10.00	5.80	603	A+
1x4	20+20+20+20	20	20	20	20	2.05	2.05	2.05	2.05	8.20	2.29	3.58	8.20	6.10	470	A++
	20+20+20+26	20	20	20	26	1.98	1.98	1.98	2.57	8.50	2.47	3.44	8.50	6.10	488	A++
	20+20+20+35	20	20	20	35	2.00	2.00	2.00	3.50	9.50	2.86	3.32	9.50	6.10	545	A++
	20+20+20+53	20	20	20	53	1.84	1.84	1.84	4.88	10.40	3.22	3.23	10.40	6.20	587	A++
	20+20+26+26	20	20	26	26	1.96	1.96	2.54	2.54	9.00	2.71	3.32	9.00	6.20	508	A++
	20+20+26+35	20	20	26	35	1.98	1.98	2.57	3.47	10.00	3.09	3.24	10.00	6.20	565	A++
	20+20+26+53	20	20	26	53	1.78	1.78	2.32	4.72	10.60	3.28	3.23	10.60	6.20	598	A++
	20+20+35+35	20	20	35	35	1.93	1.93	3.37	3.37	10.60	3.28	3.23	10.60	6.20	598	A++
	20+20+35+53	20	20	35	53	1.66	1.66	2.90	4.39	10.60	3.28	3.23	10.60	6.20	598	A++
	20+20+53+53	20	20	53	53	1.45	1.45	3.85	3.85	10.60	3.28	3.23	10.60	6.20	598	A++
	20+26+26+26	20	26	26	26	1.94	2.52	2.52	2.52	9.50	2.92	3.25	9.50	6.20	536	A++
	20+26+26+35	20	26	26	35	1.98	2.58	2.58	3.47	10.60	3.28	3.23	10.50	6.20	593	A++
	20+26+26+53	20	26	26	53	1.70	2.20	2.20	4.49	10.60	3.28	3.23	10.50	6.20	593	A++
	20+26+35+35	20	26	35	35	1.83	2.38	3.20	3.20	10.60	3.28	3.23	10.50	6.20	593	A++
	20+26+35+53	20	26	35	53	1.58	2.06	2.77	4.19	10.60	3.28	3.23	10.50	6.20	593	A++
	20+26+53+53	20	26	53	53	1.39	1.81	3.70	3.70	10.60	3.28	3.23	10.50	6.20	593	A++
	20+35+35+35	20	35	35	35	1.70	2.97	2.97	2.97	10.60	3.28	3.23	10.50	6.20	593	A++
	20+35+35+53	20	35	35	53	1.48	2.59	2.59	3.93	10.60	3.28	3.23	10.50	6.20	593	A++
	26+26+26+26	**26**	**26**	**26**	**26**	**2.65**	**2.65**	**2.65**	**2.65**	**10.60**	**3.28**	**3.23**	**10.50**	**6.20**	**593**	**A++**
	26+26+26+35	26	26	26	35	2.44	2.44	2.44	3.28	10.60	3.28	3.23	10.50	6.20	593	A++
	26+26+26+53	26	26	26	53	2.10	2.10	2.10	4.29	10.60	3.28	3.23	10.50	6.20	593	A++
	26+26+35+35	26	26	35	35	2.26	2.26	3.04	3.04	10.60	3.28	3.23	10.50	6.20	593	A++
	26+26+35+53	26	26	35	53	1.97	1.97	2.65	4.01	10.60	3.28	3.23	10.50	6.20	593	A++
	26+35+35+35	26	35	35	35	2.10	2.83	2.83	2.83	10.60	3.28	3.23	10.50	6.20	593	A++
	26+35+35+53	26	35	35	53	1.85	2.49	2.49	3.77	10.60	3.28	3.23	10.50	6.20	593	A++
	35+35+35+35	35	35	35	35	2.65	2.65	2.65	2.65	10.60	3.28	3.23	10.60	6.20	598	A++

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Connectable indoor units:
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COMBINATIONS

HCKU 1060 Z4 Heating

Combinations	Indoor Units	Combination				Rated heating capacity (kW)				Total heating capacity (kW)	Absorbed power (kW)	COP (W/W)	Pdesignh	SCOP	Annual consumption (kWh)	Energy class
		Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	std.	std.	std.				
1x2	20+35	20	35	—	—	2.18	3.82	—	—	6.00	1.59	3.78	4.34	3.40	1787	A
	20+53	20	53	—	—	2.19	5.81	—	—	8.00	2.12	3.78	4.65	3.40	1915	A
	26+26	26	26	—	—	3.00	3.00	—	—	6.00	1.59	3.78	6.20	3.40	2553	A
	26+35	26	35	—	—	2.98	4.02	—	—	7.00	1.85	3.78	4.65	3.40	1915	A
	26+53	26	53	—	—	2.90	5.90	—	—	8.80	2.33	3.78	5.43	3.40	2234	A
	35+35	35	35	—	—	3.75	3.75	—	—	7.50	1.98	3.78	6.82	3.40	2808	A
	35+53	35	53	—	—	3.74	5.66	—	—	9.40	2.49	3.78	5.81	3.40	2393	A
	53+53	53	53	—	—	5.05	5.05	—	—	10.10	2.66	3.80	7.29	3.50	2914	A
1x3	20+20+20	20	20	20	—	2.50	2.50	2.50	—	7.50	1.96	3.82	8.40	3.60	3267	A
	20+20+26	20	20	26	—	2.36	2.36	3.07	—	7.80	2.04	3.82	5.81	3.60	2260	A
	20+20+35	20	20	35	—	2.27	2.27	3.97	—	8.50	2.23	3.82	6.05	3.60	2351	A
	20+20+53	20	20	53	—	2.30	2.30	6.10	—	10.70	2.78	3.85	6.59	3.60	2562	A
	20+26+26	20	26	26	—	2.36	3.07	3.07	—	8.50	2.23	3.82	8.60	3.60	3344	A
	20+26+35	20	26	35	—	2.47	3.21	4.32	—	10.00	2.62	3.82	6.59	3.60	2562	A
	20+26+53	20	26	53	—	2.16	2.81	5.73	—	10.70	2.78	3.85	7.75	3.60	3014	A
	20+35+35	20	35	35	—	2.24	3.93	3.93	—	10.10	2.62	3.85	8.60	3.60	3344	A
	20+35+53	20	35	53	—	1.98	3.47	5.25	—	10.70	2.78	3.85	8.40	3.60	3267	A
	20+53+53	20	53	53	—	1.70	4.50	4.50	—	10.70	2.78	3.85	8.60	3.60	3344	A
	26+26+26	26	26	26	—	3.33	3.33	3.33	—	10.00	2.62	3.82	8.60	3.60	3344	A
	26+26+35	26	26	35	—	3.02	3.02	4.06	—	10.10	2.62	3.85	7.75	3.60	3014	A
	26+26+53	26	26	53	—	2.65	2.65	5.40	—	10.70	2.78	3.85	8.40	3.60	3267	A
	26+35+35	26	35	35	—	2.90	3.90	3.90	—	10.70	2.78	3.85	8.60	3.60	3344	A
	26+35+53	26	35	53	—	2.44	3.29	4.97	—	10.70	2.78	3.85	8.60	3.60	3344	A
	26+53+53	26	53	53	—	2.11	4.30	4.30	—	10.70	2.78	3.85	8.60	3.60	3344	A
	35+35+35	35	35	35	—	3.57	3.57	3.57	—	10.70	2.78	3.85	8.60	3.60	3344	A
	35+35+53	35	35	53	—	3.04	3.04	4.61	—	10.70	2.78	3.85	8.60	3.60	3344	A
	35+53+53	35	53	53	—	2.66	4.02	4.02	—	10.70	2.78	3.85	8.60	3.60	3344	A
1x4	20+20+20+20	20	20	20	20	2.50	2.50	2.50	2.50	10.00	2.56	3.90	8.60	3.80	3168	A
	20+20+20+26	20	20	20	26	2.35	2.35	2.35	3.05	10.10	2.59	3.90	7.75	3.80	2855	A
	20+20+20+35	20	20	20	35	2.29	2.29	2.29	4.02	10.90	2.79	3.90	8.50	3.80	3132	A
	20+20+20+53	20	20	20	53	1.96	1.96	1.96	5.21	11.10	2.84	3.91	9.00	3.80	3316	A
	20+20+26+26	20	20	26	26	2.37	2.37	3.08	3.08	10.90	2.79	3.90	9.00	3.80	3316	A
	20+20+26+35	20	20	26	35	2.20	2.20	2.86	3.85	11.10	2.85	3.90	9.00	3.80	3316	A
	20+20+26+53	20	20	26	53	1.87	1.87	2.43	4.94	11.10	2.84	3.91	9.00	3.80	3316	A
	20+20+35+35	20	20	35	35	2.02	2.02	3.53	3.53	11.10	2.84	3.91	9.00	3.80	3316	A
	20+20+35+53	20	20	35	53	1.73	1.73	3.04	4.60	11.10	2.84	3.91	9.00	3.80	3316	A
	20+20+53+53	20	20	53	53	1.52	1.52	4.03	4.03	11.10	2.84	3.91	9.00	3.80	3316	A
	20+26+26+26	20	26	26	26	2.27	2.94	2.94	2.94	11.10	2.85	3.90	9.00	3.80	3316	A
	20+26+26+35	20	26	26	35	2.07	2.70	2.70	3.63	11.10	2.82	3.93	9.00	3.80	3316	A
	20+26+26+53	20	26	26	53	1.78	2.31	2.31	4.71	11.10	2.82	3.93	9.00	3.80	3316	A
	20+26+35+35	20	26	35	35	1.91	2.49	3.35	3.35	11.10	2.82	3.93	9.00	3.80	3316	A
	20+26+35+53	20	26	35	53	1.66	2.15	2.90	4.39	11.10	2.82	3.93	9.00	3.80	3316	A
	20+26+53+53	20	26	53	53	1.46	1.90	3.87	3.87	11.10	2.82	3.93	9.00	3.80	3316	A
	20+35+35+35	20	35	35	35	1.78	3.11	3.11	3.11	11.10	2.82	3.93	9.00	3.80	3316	A
	20+35+35+53	20	35	35	53	1.55	2.72	2.72	4.11	11.10	2.82	3.93	9.00	3.80	3316	A
	26+26+26+26	**26**	**26**	**26**	**26**	**2.78**	**2.78**	**2.78**	**2.77**	**11.10**	**2.82**	**3.93**	**9.00**	**3.80**	**3316**	**A**
	26+26+26+35	26	26	26	35	2.55	2.55	2.55	3.44	11.10	2.82	3.93	9.00	3.80	3316	A
	26+26+26+53	26	26	26	53	2.20	2.20	2.20	4.49	11.10	2.82	3.93	9.00	3.80	3316	A
	26+26+35+35	26	26	35	35	2.37	2.37	3.18	3.18	11.10	2.82	3.93	9.00	3.80	3316	A
	26+26+35+53	26	26	35	53	2.06	2.06	2.78	4.20	11.10	2.82	3.93	9.00	3.80	3316	A
	26+35+35+35	26	35	35	35	2.20	2.97	2.97	2.97	11.10	2.82	3.93	9.00	3.80	3316	A
	26+35+35+53	26	35	35	53	1.94	2.61	2.61	3.95	11.10	2.82	3.93	9.00	3.80	3316	A
	35+35+35+35	35	35	35	35	2.78	2.78	2.78	2.77	11.10	2.82	3.93	9.00	3.80	3316	A

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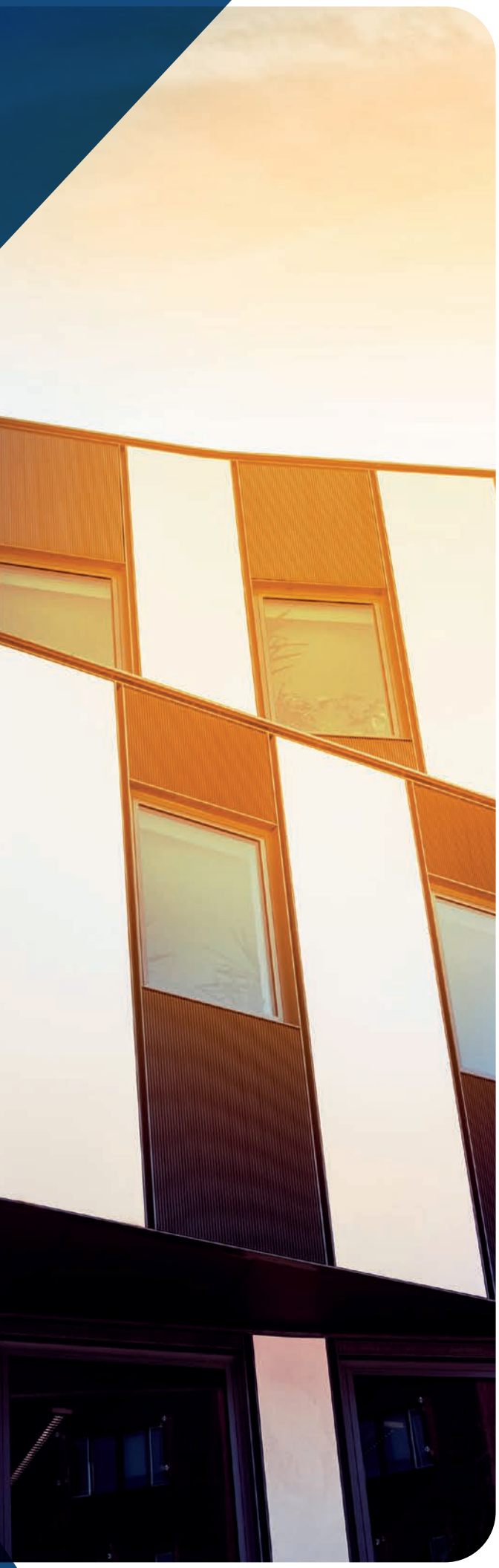
PROJECT VRF R410A FULL DC INVERTER



PROJECT VRF R410A FULL DC INVERTER, EFFICIENCY AND EASE OF INSTALLATION

Strengthened by its continued commitment to technological research and its long experience in the heating/cooling systems market in Italy and Europe, Hokkaido is proud to announce the **PROJECT VRF R410A** line, a strong candidate for a leading product in the VRF systems market.

Efficiency, reliability and **application flexibility** are the quality solutions that the XRV Systems offer for the various applicative requirements of installers, designers and final customers.

XRV MULTI SYSTEM **DESIGN AND SAVINGS**

THE ADVANTAGES OF A HOKKAIDO VRF SYSTEM

With Hokkaido VRFs, you can expect superior energy efficiency and a rapid return on investment.

Through the use of inverter compressors, Hokkaido VRF systems are able to achieve high efficiency levels. These systems can be customised to meet any project specifications, making them particularly attractive for large residential buildings, commercial and industrial spaces.

FULL DC INVERTER TECHNOLOGY FOR ALL OUTDOOR UNITS RANGE

Full DC Inverter technology has always characterised the Hokkaido product range on the market of VRF systems, in heat pump. These ranges are all equipped with a DC Inverter compressor and DC Inverter fan motor: outstanding results in terms of energy efficiency and reduced operating costs, as well as CO2 emissions.

XRV UNIT IN HEAT PUMP

XRV PLUS MINI

XRV INDIVIDUAL

HERE'S WHAT MAKES THE HOKKAIDO RANGE "FULL"

Energy savings and comfort

Full DC Inverter technology (DC Inverter compressor and DC Inverter fan motor) applied to the XRV system outdoor units ensures high EER and COP values not only at full load, but also at partial load. This guarantees energy savings and high comfort in a wide outside temperature operating range.

HIGH EFFICIENCY DC INVERTER COMPRESSOR

Thanks to the use of DC Inverter compressors, which allow for quick and continuous changes of the amount of compressed refrigerant, the XRV system outdoor units are characterised by:

- rapid system start-up;
- quick response to changes in cooling or heating demand by users;
- reduced start&stop cycles.

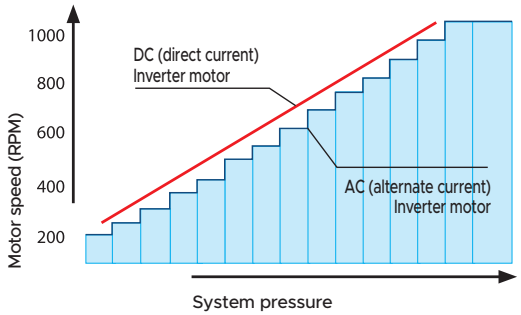
The result is an efficient system that is highly reliable and durable.

MOTORE VENTILATORE DC

The use of the DC Inverter fan motor ensures energy savings during partial loads, as it adjusts the fan speed and helps make the unit more silent. The fan and outlet grille design guarantees increased air flow, thus resulting in low noise.

DC Inverter compressor

DC Inverter fan motor



XRV MULTI SYSTEM
Outdoor heat pump units

XRV PLUS MINI SINGLE PHASE

2.5HP
HCNU 806 XRV

3.2HP
HCNU 1056 XRV

4.5HP
HCNU 1206 XRV

5HP
HCNU 1406 XRV

6HP
HCNU 1606 XRV

XRV PLUS MINI THREE-PHASE

7HP
HCYU 2006 XRV

8HP
HCYU 2246 XRV

9HP
HCYU 2606 XRV

10HP
HCYU 2806 XRV

12HP
HCYU 3356 XRV

XRV INDIVIDUAL THREE-PHASE

14HP
HCYUM 4006 XRV-I

16HP
HCYUM 4506 XRV-I

18HP
HCYUM 5006 XRV-I

20HP
HCYUM 5606 XRV-I

22HP
HCYUM 6156 XRV-I

24HP
HCYUM 6706 XRV-I

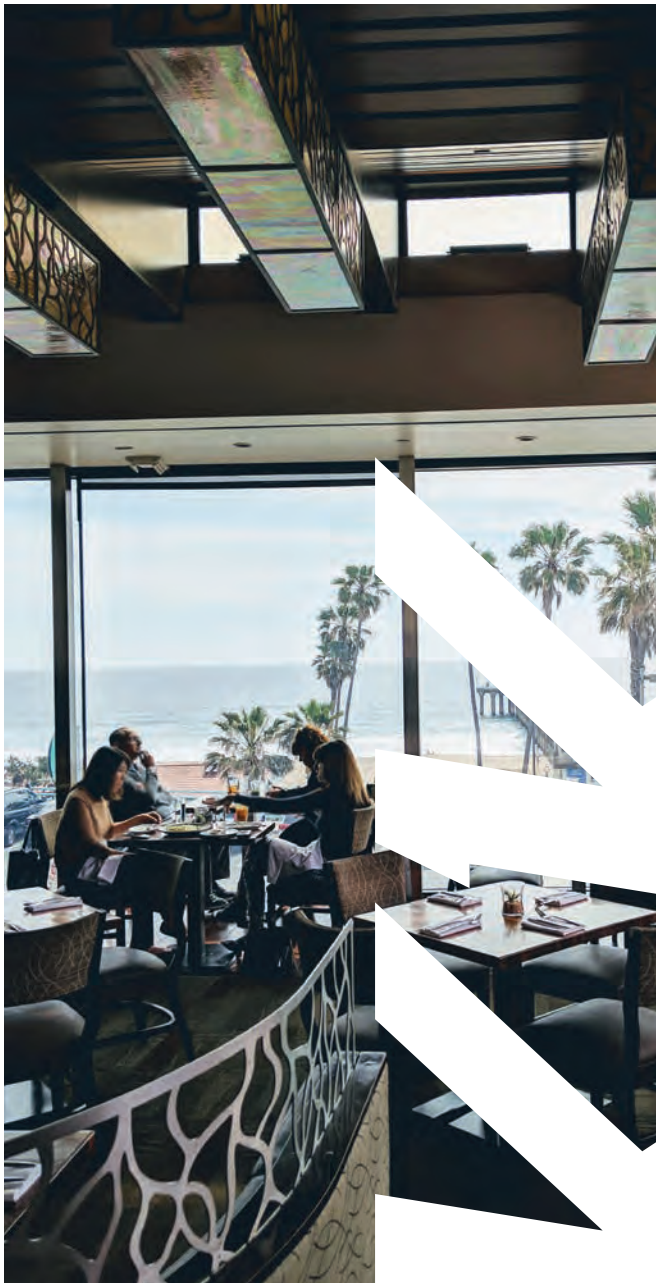
26HP
HCYUM 7306 XRV-I

28HP
HCYUM 7856 XRV-I

30HP
HCYUM 8506 XRV-I

Performance and consumption are based on the following test conditions:
O.T. heating 7° C DB, 6° C WB - I.T. 20° C DB.
Cooling: O.T. 35° C DB, 24° C WB - I.T. 27° C DB, 19° C WB (ISO T1).

XRV PLUS MINI



XRV PLUS MINI
Heat pump

HCNU 806 XRV

HCNU 1056 XRV
HCNU 1206 XRV

HCNU 1406 XRV
HCNU 1606 XRV

Splitting and height difference lengths

Model	HCNU 806 XRV	HCNU 1056 XRV	HCNU 1206 XRV	HCNU 1406 XRV	HCNU 1606 XRV
Maximum distance between O.U. and the farthest I.U.	40 m	50 m	50 m	70 m	70 m
Maximum distance from the first branch pipe to the farthest I.U.	20 m	20 m	20 m	20 m	20 m
Maximum height difference between O.U. (up high) and I.U.	10 m	20 m	20 m	30 m	30 m
Maximum height difference between O.U. (down low) and I.U.	10 m	20 m	20 m	20 m	20 m
Maximum height difference between I.U.	8 m	8 m	8 m	8 m	8 m
Maximum distance between I.U. and branch pipe	15 m	15 m	15 m	15 m	15 m
Maximum length of the pipes	**50 m**	**65 m**	**65 m**	**100 m**	**100 m**

All units are equipped with a high efficiency Full DC Inverter compressor.

Slim, flexible design.

Fan with DC Inverter motor:

- broader fan speed modulations;
- less noise.

The efficient fan design and the sunburst grill allow an high airflow rate with low noise.

Broad operating range:

- cooling -5° C ~ +55° C;
- heating -15° C ~ +27° C.

Auto-addressing of indoor units.

Model			HCNU 806 XRV	HCNU 1056 XRV	HCNU 1206 XRV	HCNU 1406 XRV	HCNU 1606 XRV
Power		HP	2.5	3.2	4.5	5	6
Rated capacity[1]	Cooling	kW	7.20	9.00	12.20	14.00	15.50
Rated absorbed power		kW	2.18	2.64	4.32	4.56	5.35
Energy efficiency coefficient (rated)		EER	3.30	3.41	2.83	3.07	2.90
Rated capacity[2]	Heating	kW	7.20	9.00	14.00	16.00	18.00
Rated absorbed power		kW	1.82	2.12	3.17	4.08	5.71
Energy performance coefficient (rated)		COP	3.95	4.29	4.40	3.92	3.20
Electrical data							
Power supply		Ph-V-Hz	1-220~240V-50Hz				
Maximum current		A	21.25	28.80	35.00	40.00	40.00
Refrigerant circuit/features							
Refrigerant[3]		Type (GWP)	R410A (2088)				
Quantity refrigerant pre-load (tons of CO2 equivalent)		Kg	2.2 (4.594)	2.5 (5.220)	3 (6.264)	3.4 (7.099)	3.8 (7.934)
Compressor		no. / type	1/ Rotary DC Inverter				
Diameter refrigerant pipes	Liquid	mm (inch)	9.53 (3/8")	9.53 (3/8")	9.53 (3/8")	9.53 (3/8")	9.53 (3/8")
	Gas	mm (inch)	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")	19.1 (3/4")
Product Specifications							
Dimensions	LxHxD	mm	982x712x440	950x840x426		1040x865x523	
Net weight		Kg	55	72.5	84	91.4	95.4
Sound power level	max	dB(A)	65	68	70	71	71
Sound pressure level at 1 m	max	dB(A)	54	54	56	56	56
Treated air volume	max	m3/h	3700	5200	5000	5400	5200
Operating limits (outside temperature)	Cooling	°C	-5~55				
	Heating	°C	-15~27				
Max. connectable I.U. (min - max)		n°	1 - 4	1 - 6	1 - 7	1 - 8	1 - 9
Capacity of connectable indoor units		%	50 - 130				

1. Cooling capacity tested in accordance with ISO 5151 Standards; outside temperature 35° C DB, 24° C WB and inside temperature 27° C DB, 19° C WB.
2. Heating capacity tested in accordance with ISO 5151 Standards; outside temperature 7° C DB, 6° C WB and inside temperature 20° C DB, 15° C WB.
3. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.
4. For the calculation of the additional refrigerant charge refer to the labels placed inside and outside the unit.

XRV PLUS MINI
Heat pump

HCYU 2006 XRV
HCYU 2246 XRV
HCYU 2606 XRV
HCYU 2806 XRV
HCYU 3356 XRV

Splitting and height difference lengths

Model	HCYU 2006 XRV	HCYU 2246 XRV	HCYU 2606 XRV	HCYU 2806 XRV	HCYU 3356 XRV
Maximum distance between O.U. and the farthest I.U.	110 m	110 m	110 m	110 m	110 m
Maximum distance from the first branch pipe to the farthest I.U.	40 m	40 m	40 m	40 m	40 m
Maximum height difference between O.U. (up high) and I.U.	50 m	50 m	50 m	50 m	50 m
Maximum height difference between O.U. (down low) and I.U.	40 m	40 m	40 m	40 m	40 m
Maximum height difference between I.U.	15 m	15 m	15 m	15 m	15 m
Maximum length of the pipes	**150 m**	**150 m**	**150 m**	**150 m**	**150 m**

All units are equipped with a high efficiency Full DC Inverter compressor.
DC Inverter motor fan:
- broader fan speed modulations;
- less noise.

Up to 20 indoor units connected to one compact outdoor unit.
Self-diagnosis function for main system problems.

Broad operating range:
- cooling -5° C ~ +48° C;
- heating -20° C ~ +24° C.

Auto-addressing of indoor units.

Model			HCYU 2006 XRV	HCYU 2246 XRV	HCYU 2606 XRV	HCYU 2806 XRV	HCYU 3356 XRV
Power		HP	7	8	9	10	12
Rated capacity[1]	Cooling	kW	20.00	22.40	26.00	28.00	33.50
Rated absorbed power		kW	5.28	6.77	10.04	12.02	15.30
Energy efficiency coefficient (rated)		EER	3.79	3.31	2.59	2.33	2.19
Rated capacity[2]	Heating	kW	20.00	22.40	26.00	28.00	33.50
Rated absorbed power		kW	4.43	5.42	6.86	7.55	10.15
Energy performance coefficient (rated)		COP	4.51	4.13	3.79	3.71	3.30
Electrical data							
Power supply		Ph-V-Hz	3-380~415V50Hz				
Maximum current		A	19.00	19.00	20.50	21.00	26.40
Refrigerant circuit/features							
Refrigerant[3]		Type (GWP)	R410A (2088)				
Quantity refrigerant pre-load (tons of CO2 equivalent)		Kg	6.5 (13.572)	6.5 (13.572)	6.5 (13.572)	6.5 (13.572)	8 (16.704)
Compressor		no. / type	1/ Rotary DC Inverter			1/ Rotary DC Inverter	
Diameter refrigerant pipes	Liquid	mm (inch)	9.53 (3/8")		9.53 (3/8")		12.7 (1/2")
	Gas	mm (inch)	19.1 (3/4")		22.2 (7/8")		25.4 (1")
Product Specifications							
Dimensions	LxHxD	mm	1120x1558x528				
Net weight		Kg	143		144		157
Sound power level	max	dB(A)	78		78		81
Sound pressure level at 1 m	max	dB(A)	58		59	60	61
Treated air volume	max	m3/h	9000		10000	11000	11300
Operating limits (outside temperature)	Cooling	°C	-5~48				
	Heating	°C	-20~24				
Max. connectable I.U. (min - max)		n°	1 - 11	1 - 13	1 - 15	1 - 16	1 - 20
Capacity of connectable indoor units		%	50 - 130				

1. Cooling capacity tested in accordance with ISO 5151 Standards; outside temperature 35° C DB, 24° C WB and inside temperature 27° C DB, 19° C WB.
2. Heating capacity tested in accordance with ISO 5151 Standards; outside temperature 7° C DB, 6° C WB and inside temperature 20° C DB, 15° C WB.
3. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.
4. For the calculation of the additional refrigerant charge refer to the labels placed inside and outside the unit.

XRV INDIVIDUAL

XRV INDIVIDUAL
Heat pump

HCYUM 4006 XRV-I
HCYUM 4506 XRV-I
HCYUM 5006 XRV-I
HCYUM 5606 XRV-I
HCYUM 6156 XRV-I

Splitting and height difference lengths

Model	HCYUM 4006 XRV-I	HCYUM 4506 XRV-I	HCYUM 5006 XRV-I	HCYUM 5606 XRV-I	HCYUM 6156 XRV-I
Maximum distance between O.U. and the farthest I.U.	200 m	200 m	200 m	200 m	200 m
Maximum distance from the first branch pipe to the farthest I.U.	40 m	40 m	40 m	40 m	40 m
Maximum height difference between O.U. (up high) and I.U.	90 m	90 m	90 m	90 m	90 m
Maximum height difference between O.U. (down low) and I.U.	110 m	110 m	110 m	110 m	110 m
Maximum height difference between I.U.	30 m	30 m	30 m	30 m	30 m
Maximum length of the pipes	**1000 m**	**1000 m**	**1000 m**	**1000 m**	**1000 m**

All units are equipped with a high efficiency Full DC Inverter compressor.

DC Inverter motor fan:

- broader fan speed modulations;
- less noise.

Self-diagnosis function for main system problems.

Individual modules from 40 to 85 kW for simplified installation without the need for modular units.

Elegant, compact design.

Broad operating range:

- cooling -5° C ~ +48° C;
- heating -25° C ~ +24° C.

Auto-addressing of indoor units.

Maximum number of connectable indoor units is 36.

Model			HCYUM 4006 XRV-I	HCYUM 4506 XRV-I	HCYUM 5006 XRV-I	HCYUM 5606 XRV-I	HCYUM 6156 XRV-I
Power		HP	14	16	18	20	22
Rated capacity[1]	Cooling	kW	40.00	45.00	50.00	56.00	61.50
Rated absorbed power		kW	11.00	12.90	14.70	16.00	20.20
Energy efficiency coefficient (rated)		EER	3.65	3.50	3.40	3.50	3.05
Rated capacity[2]	Heating	kW	40.00	45.00	50.00	56.00	61.50
Rated absorbed power		kW	9.30	10.70	12.20	13.80	17.60
Energy performance coefficient (rated)		COP	4.30	4.20	4.10	4.05	3.50
Electrical data							
Power supply		Ph-V-Hz	3-380~415V50Hz				
Maximum current		A	33.10	33.10	34.80	45.90	47.90
Refrigerant circuit/features							
Refrigerant[3]		Type (GWP)	R 410A (2088)				
Quantity refrigerant pre-load (tons of CO2 equivalent)		Kg	11.8 (24.638)	11.8 (24.638)	11.8 (24.638)	11.8 (24.638)	11.8 (24.638)
Compressor		no. / type	1 / Scroll DC Inverter			2 / Scroll DC Inverter	
Diameter refrigerant pipes	Liquid	mm (inch)	15.9 (5/8")		19.1 (3/4")		
	Gas	mm (inch)	31.8 (1"1/4)				
Product Specifications							
Dimensions	LxHxD	mm	1340x1635x850			1340x1635x825	
Net weight		Kg	277	277	295	344	344
Sound power level	max	dB(A)	85	88		88	
Sound pressure level at 1 m	max	dB(A)	62	65		66	
Treated air volume	max	m3/h	13000	13000	13000	17000	17000
Operating limits (outside temperature)	Cooling	°C	-5~48				
	Heating	°C	-25~24				
Max. connectable I.U. (min - max)		n°	23	26	29	33	36
Capacity of connectable indoor units		%	50 - 130				

1. Cooling capacity tested in accordance with ISO 5151 Standards; outside temperature 35° C DB, 24° C WB and inside temperature 27° C DB, 19° C WB.
2. Heating capacity tested in accordance with ISO 5151 Standards; outside temperature 7° C DB, 6° C WB and inside temperature 20° C DB, 15° C WB.
3. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.
4. For the calculation of the additional refrigerant charge refer to the labels placed inside and outside the unit.

XRV INDIVIDUAL
Heat pump

HCYUM 6706 XRV-I HCYUM 7856 XRV-I
HCYUM 7306 XRV-I HCYUM 8506 XRV-I

Splitting and height difference lengths

Model	HCYUM 6706 XRV-I	HCYUM 7306 XRV-I	HCYUM 7856 XRV-I	HCYUM 8506 XRV-I
Maximum distance between O.U. and the farthest I.U.	200 m	200 m	200 m	200 m
Maximum distance from the first branch pipe to the farthest I.U.	40 m	40 m	40 m	40 m
Maximum height difference between O.U. (up high) and I.U.	90 m	90 m	90 m	90 m
Maximum height difference between O.U. (down low) and I.U.	110 m	110 m	110 m	110 m
Maximum height difference between I.U.	30 m	30 m	30 m	30 m
Maximum length of the pipes	**1000 m**	**1000 m**	**1000 m**	**1000 m**

All units are equipped with a high efficiency Full DC Inverter compressor.

DC Inverter motor fan:

- broader fan speed modulations;
- less noise.

Self-diagnosis function for main system problems.

Individual modules from 40 to 85 kW for simplified installation without the need for modular units.

Elegant, compact design.

Broad operating range:

- cooling -5° C ~ +48° C;
- heating -25° C ~ +24° C.

Auto-addressing of indoor units.

Maximum number of connectable indoor units is 50.

Model			HCYUM 6706 XRV-I	HCYUM 7306 XRV-I	HCYUM 7856 XRV-I	HCYUM 8506 XRV-I
Power		HP	24	26	28	30
Rated capacity[1]	Cooling	kW	67.00	73.00	78.50	85.00
Rated absorbed power		kW	21.60	21.60	24.90	28.30
Energy efficiency coefficient (rated)		EER	3.10	3.40	3.15	3.00
Rated capacity[2]	Heating	kW	67.00	73.00	78.50	85.00
Rated absorbed power		kW	16.80	18.10	21.80	24.30
Energy performance coefficient (rated)		COP	4.00	4.05	3.60	3.50
Electrical data						
Power supply		Ph-V-Hz	3-380~415V50Hz			
Maximum current		A	54.50	52.90	58.70	64.90
Refrigerant circuit/features						
Refrigerant[3]		Type (GWP)	R 410A (2088)			
Quantity refrigerant pre-load (tons of CO2 equivalent)		Kg	11.8 (24.638)	11.8 (24.638)	11.8 (24.638)	11.8 (24.638)
Compressor		no. / type	2 / Scroll DC Inverter			
Diameter refrigerant pipes	Liquid	mm (inch)	19.1 (3/4")	22.2 (7/8")		
	Gas	mm (inch)	31.8 (1"1/4)			38.1 (1"1/2)
Product Specifications						
Dimensions	LxHxD	mm	1730x1830x850			
Net weight		Kg	407	429	429	475
Sound power level	max	dB(A)	89	90		
Sound pressure level at 1 m	max	dB(A)	67	68		
Treated air volume	max	m3/h	25000	25000	25000	24000
Operating limits (outside temperature)	Cooling	°C	-5~48			
	Heating	°C	-25~24			
Max. connectable I.U. (min - max)		n°	39	43	46	50
Capacity of connectable indoor units		%	50 - 130			

1. Cooling capacity tested in accordance with ISO 5151 Standards; outside temperature 35° C DB, 24° C WB and inside temperature 27° C DB, 19° C WB.
2. Heating capacity tested in accordance with ISO 5151 Standards; outside temperature 7° C DB, 6° C WB and inside temperature 20° C DB, 15° C WB.
3. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.
4. For the calculation of the additional refrigerant charge refer to the labels placed inside and outside the unit.

PREMIUM - P SERIES INDOOR UNITS

		kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	12.50	14.00	16.00	20.00	28.00
Cassette	8-ways compact 60x60	 HTFU XRV-P	•	•	•	•									
	8-ways 84x84	 HTBU XRV-P					•	•	•	•		•			
Ducted	medium static pressure	 HUCU XRV-P	•	•	•	•	•	•	•	•					
	high static pressure	 HVDU XRV-P						•	•	•		•	•	•	•
	all-outside air	 HVDU-F XRV-P									•	•			
Wall		HKEU XRV-P	•	•	•	•	•	•	•						
Floor	floor / ceiling	 HSFU XRV-P			•	•	•	•	•	•		•			
	recessed	 HFCU XRV-P	•	•	•	•	•								

ENTHALPY HEAT RECOVERY UNIT

	300	400			
	•	•			
	500	800	1000	1500	2000
	•	•	•	•	•

HTFU XRV-P

8-ways compact cassette 60x60

Ultra-compact design
22 dB(A) (2.20~2.80 kW) | Extremely quiet

Condensate drain pump with possibility of raising the discharge up to 500 mm from the lower height

360° air diffusion
The control must be purchased as an accessory

Model			HTFU 225 XRV-P	HTFU 285 XRV-P	HTFU 365 XRV-P	HTFU 455 XRV-P
Rated capacity	Cooling	kW	2.20	2.80	3.60	4.50
	Heating	kW	2.40	3.20	4.00	5.00
Electrical data						
Power supply		Ph-V-Hz	1-220~240V-50Hz			
Electrical absorption		W	35	35	40	50
Product Specifications						
Dimensions	LxHxD	mm	630x260x570			
Net weight		Kg	18		19.2	
Sound power level[1]	Max~Min	dB(A)	51~38		56~43	
Sound pressure level at 1.4 m[1]	Max~Min	dB(A)	35~22		41~28	
Treated air volume[1]	Max~Min	m3/h	576~405		604~400	
Refrigerant connections	Liquid/Gas	mm (inch)	6.35 (1/4") / 12.7 (1/2")			
	Condensate drain	mm	32			
Accessories						
Decorative panel			TFP 155 XRV-P			
Dimensions	LxHxD	mm	647x50x647			
Net weight		Kg	2.5			
Remote control			DHIR-5-6-XRV-K-P			
Wired remote control			DHW-5-6-XRV-P			
Optional parts						
Centralized control			DHC-8-64-XRV-P			

1. Values related to Max and Min speed of 7 levels settable by remote control.

HTBU XRV-P

8-ways cassette 84x84

Optimised fan design to attenuate air resistance and reduce noise level

Pre-set for the connection of an outside air intake channel

Condensate drain pump with possibility of raising the discharge up to 750 mm from the lower height

The control must be purchased as an accessory

Model			HTBU 565 XRV-P	HTBU 715 XRV-P	HTBU 905 XRV-P	HTBU 1125 XRV-P	HTBU 1405 XRV-P
Rated capacity	Cooling	kW	5.60	7.10	9.00	11.20	14.00
	Heating	kW	6.30	8.00	10.00	12.50	16.00
Electrical data							
Power supply		Ph-V-Hz	1-220~240V-50Hz				
Electrical absorption		W	31	46	75		94
Product Specifications							
Dimensions	LxHxD	mm	840x230x840		840x300x840		
Net weight		Kg	23.2		28.4		30.7
Sound power level[1]	Max~Min	dB(A)	56~47	58~47	61~50		64~52
Sound pressure level at 1.4 m[1]	Max~Min	dB(A)	43~34	45~34	47~36		50~38
Treated air volume[1]	Max~Min	m3/h	1029~704	1200~748	1596~1034		1727~1224
Refrigerant connections	Liquid/Gas	mm (inch)	9.52 (3/8") / 15.9 (5/8")				
	Condensate drain	mm	32				
Accessories							
Decorative panel			TBP 712 IHXR				
Dimensions	LxHxD	mm	950x70x950				
Net weight		Kg	5.8				
Remote control			DHIR-5-6-XRV-K-P				
Wired remote control			DHW-5-6-XRV-P				
Optional parts							
Centralized control			DHC-8-64-XRV-P				

1. Values related to Max and Min speed of 7 levels settable by remote control.

HUCU XRV-P

Ducted with medium static pressure

Only 210 mm high
(2.20~7.10 kW) ultra-compact design: perfect for use in hotels thanks to its small size

Available static pressure:
50 Pa (2.20~7.10 kW);
100 Pa (9.00~11.20 kW)

Air intake from bottom or rear
Condensate drain pump included with possibility of raising the discharge up to 750 mm from the lower height

Compatible with systems AIRZONE
The control must be purchased as an accessory

Model			HUCU 225 XRV-P	HUCU 285 XRV-P	HUCU 365 XRV-P	HUCU 455 XRV-P
Rated capacity	Cooling	kW	2.20	2.80	3.60	4.50
	Heating	kW	2.60	3.20	4.00	5.00
Electrical data						
Power supply		Ph-V-Hz	1-220~240V-50Hz			
Electrical absorption		W	40	40	45	92
Product Specifications						
Dimensions	LxHxD	mm	780x210x500			1000x210x500
Net weight		Kg	18			21.5
Sound power level[1]	Max~Min	dB(A)	50~41		51~43	54~43
Sound pressure level at 1.4 m[1]	Max~Min	dB(A)	32~23		33~25	36~25
Treated air volume[1]	Max~Min	m3/h	520~300		580~370	800~400
Fan static pressure	Std/Max	Pa	10/50			
Refrigerant connections	Liquid/Gas	mm (inch)	6.35 (1/4") / 12.7 (1/2")			
	Condensate drain	mm	25			
Accessories						
Remote control			DHIR-5-6-XRV-K-P			
Wired remote control			DHW-5-6-XRV-P			
Optional parts						
Centralized control			DHC-8-64-XRV-P			

1. Values related to Max and Min speed of 7 levels settable by remote control.

Model			HUCU 565 XRV-P	HUCU 715 XRV-P	HUCU 905 XRV-P	HUCU 1125 XRV-P
Rated capacity	Cooling	kW	5.60	7.10	9.00	11.20
	Heating	kW	6.30	8.00	10.00	12.50
Electrical data						
Power supply		Ph-V-Hz	1-220~240V-50Hz			
Electrical absorption		W	92	98	120	200
Product Specifications						
Dimensions	LxHxD	mm	1000x210x500	1220x210x500	1230x270x775	
Net weight		Kg	21.5	27.5	37	
Sound power level[1]	Max~Min	dB(A)	54~46	55~46	55~46	57~51
Sound pressure level at 1.4 m[1]	Max~Min	dB(A)	36~28	37~28	37~28	39~33
Treated air volume[1]	Max~Min	m3/h	830~560	1000~680	1260~780	1500~1080
Fan static pressure	Std/Max	Pa	10/50		20/100	
Refrigerant connections	Liquid/Gas	mm (inch)	9.52 (3/8") / 15.9 (5/8")			
	Condensate drain	mm	25			
Accessories						
Remote control			DHIR-5-6-XRV-K-P			
Wired remote control			DHW-5-6-XRV-P			
Optional parts						
Centralized control			DHC-8-64-XRV-P			

1. Values related to Max and Min speed of 7 levels settable by remote control.

HVDU XRV-P

Ducted with high static pressure

Available static pressure:
200 Pa (7.10~16.00 kW)
250 Pa (20.00~28.00 kW)

423 mm high (7.10~16.00 kW) compact size
Rear air intake

Ease of maintenance
Compatible with systems AIRZONE

The control must be purchased as an accessory

Model			HVDU 715 XRV-P	HVDU 905 XRV-P	HVDU 1125 XRV-P	HVDU 1405 XRV-P	HVDU 1605 XRV-P	HVDU 2005 XRV-P	HVDU 2805 XRV-P
Rated capacity	Cooling	kW	7.10	9.00	11.20	14.00	16.00	20.00	28.00
	Heating	kW	8.00	10.00	12.50	16.00	17.00	22.50	31.50
Electrical data									
Power supply		Ph-V-Hz	1-220~240V-50Hz						
Electrical absorption		W	180	220	380	420	700	990	1200
Product Specifications									
Dimensions	LxHxD	mm	965x423x690			1322x423x691		1454x515x931	
Net weight		Kg	41	51	51	68	68	130	
Sound power level[1]	Max~Min	dB(A)	64~60	68~63	68~63	71~66	72~68	75~68	
Sound pressure level at 1.4 m[1]	Max~Min	dB(A)	46~42	50~45	50~45	53~48	54~50	57~50	
Treated air volume[1]	Max~Min	m³/h	1360~1160	1420~1140	1870~1350	2240~1600	2660~1880	4330~3730	
Fan static pressure	Std/Max	Pa	100/200					170/250	
Refrigerant connections	Liquid/Gas	mm (inch)	9.52 (3/8") / 15.9 (5/8")					12.7 (1/2") / 22.2 (7/8")	
	Condensate drain	mm	25					32	
Accessories									
Remote control			DHIR-5-6-XRV-K-P						
Wired remote control			DHW-5-6-XRV-P						
Optional parts									
Centralized control			DHC-8-64-XRV-P						

1. Values related to Max and Min speed of 7 levels settable by remote control.

HVDU-F XRV-P

All-outside air ducted

These air handling units can be connected together with the indoor units to the same refrigerant system, thus increasing the design flexibility and significantly reducing operating costs

423 mm high ultra-compact design
200 Pa max static pressure of fans

Automatic "all-outside air" function to save energy when the outside temperature drops below the set temperature

The control must be purchased as an accessory

Model			HVDU-F 1255 XRV-P	HVDU-F 1405 XRV-P
Rated capacity	Cooling[1]	kW	12.50	14.00
	Heating[2]	kW	10.50	12.00
Electrical data				
Power supply		Ph-V-Hz	1-220~240V-50Hz	
Electrical absorption		W	480	
Product Specifications				
Dimensions	LxHxD	mm	1322x423x691	
Net weight		Kg	68	
Sound power level[3]	Max~Min	dB(A)	66~60	
Sound pressure level at 1.4 m[3]	Max~Min	dB(A)	48~42	
Treated air volume[3]	Max~Min	m³/h	2000~1500	
Fan static pressure	Std/Max	Pa	180/200	
Refrigerant connections	Liquid/Gas	mm (inch)	9.52 (3/8") / 15.9 (5/8")	
	Condensate drain	mm	25	
Application area (100% outdoor air)	Cooling	℃	-5 / 16	
	Heating		20 / 43	
Accessories				
Remote control			DHIR-5-6-XRV-K-P	
Wired remote control			DHW-5-6-XRV-P	
Optional parts				
Centralized control			DHC-8-64-XRV-P	

1. Cooling test conditions: 100% outdoor air 33°C DB, 28°C WB.
2. Heating test conditions: 100% outdoor air 0°C DB, -2,9°C WB.
3. Values related to Max and Min speed of 7 levels settable by remote control.

HKEU XRV-P
Wall

Compact design
Standard washable filter

203 mm deep (2.20~2.80 kW)
extremely compact

29 dB(A) (2.20~2.80 kW)
extremely quiet

The control must be purchased as an accessory

Model			HKEU 225 XRV-P	HKEU 285 XRV-P	HKEU 365 XRV-P	HKEU 455 XRV-P	HKEU 565 XRV-P	HKEU 715 XRV-P	HKEU 905 XRV-P
Rated capacity	Cooling	kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00
	Heating	kW	2.40	3.20	4.00	5.00	6.30	8.00	10.00
Electrical data									
Power supply		Ph-V-Hz	1-220~240V-50Hz						
Electrical absorption		W	28		30	40	45	55	82
Product Specifications									
Dimensions	LxHxD	mm	835x280x203		990x315x223			1194x343x262	
Net weight		Kg	8.4	9.5	11.4	12.8		17	
Sound power level[1]	Max~Min	dB(A)	46~44	46~44	48~45	50~46	53~49	59~51	63~53
Sound pressure level at 1.4 m[1]	Max~Min	dB(A)	31~29	31~29	33~30	35~31	38~34	44~36	48~38
Treated air volume[1]	Max~Min	m³/h	422~356	417~316	656~488	594~424	747~547	1195~809	1421~867
Refrigerant connections	Liquid/Gas	mm (inch)	6.35 (1/4") / 12.7 (1/2")				9.52 (3/8") / 15.9 (5/8")		
	Condensate drain	mm	16						
Accessories									
Remote control			DHIR-5-6-XRV-K-P						
Wired remote control			DHW-5-6-XRV-P						
Optional parts									
Centralized control			DHC-8-64-XRV-P						

1. Values related to Max and Min speed of 7 levels settable by remote control.

HSFU XRV-P
Floor/ceiling

Auto Swing function | Optimises the distribution of air flow in the room
Built-in electronic expansion valve

Easy installation with unit mounted to the floor or to the ceiling

The control must be purchased as an accessory

Model			HSFU 365 XRV-P	HSFU 455 XRV-P	HSFU 565 XRV-P	HSFU 715 XRV-P	HSFU 905 XRV-P	HSFU 1125 XRV-P	HSFU 1405 XRV-P
Rated capacity	Cooling	kW	3.60	4.50	5.60	7.10	9.00	11.20	14.00
	Heating	kW	4.00	5.00	6.30	8.00	10.00	12.50	15.00
Electrical data									
Power supply		Ph-V-Hz	1-220~240V-50Hz						
Electrical absorption		W	49	115			130	180	180
Product Specifications									
Dimensions	LxHxD	mm	990x660x203				1280x660x203	1670x680x244	
Net weight		Kg	27	28			35	48	
Sound power level[1]	Max~Min	dB(A)	53~49	56~51			58~53	60~55	
Sound pressure level at 1.4 m[1]	Max~Min	dB(A)	40~36	43~38			45~40	47~42	
Treated air volume[1]	Max~Min	m³/h	550~420	930~720			1280~1050	1890~1580	
Refrigerant connections	Liquid/Gas	mm (inch)	6.35 (1/4") / 12.7 (1/2")		9.52 (3/8") / 15.9 (5/8")		9.52 (3/8") / 15.9 (5/8")		
	Condensate drain	mm	16						
Accessories									
Remote control			DHIR-5-6-XRV-K-P						
Wired remote control			DHW-5-6-XRV-P						
Optional parts									
Centralized control			DHC-8-64-XRV-P						

1. Values related to Max and Min speed of 7 levels settable by remote control.

HFCU XRV-P
Recessed floor

29 dB(A) (2.20~2.80 kW)
extremely quiet
Air intake from bottom

200 mm | Maximum compactness for flush-mounted installation

The control must be purchased as an accessory

Model			HFCU 226 XRV-P	HFCU 286 XRV-P	HFCU 366 XRV-P	HFCU 456 XRV-P	HFCU 566 XRV-P
Rated capacity	Cooling	kW	2.20	2.80	3.60	4.50	5.60
	Heating	kW	2.40	3.20	4.00	5.00	6.30
Electrical data							
Power supply		Ph-V-Hz	1-220~240V-50Hz				
Electrical absorption		W	18	18	25	41	37
Product Specifications							
Dimensions	LxHxD	mm	915x470x200	915x470x200	915x470x200	1133x470x200	1253x566x200
Net weight		Kg	16.5	16.5	17.8	20.9	24.6
Sound power level[1]	Max~Min	dB(A)	-	-	-	-	-
Sound pressure level at 1.4 m[1]	Max~Min	dB(A)	36~29	36~29	37~30	37~30	41~31
Treated air volume[1]	Max~Min	m³/h	509~449	509~449	547~409	623~388	623~388
Fan static pressure	Std/Max	Pa	0/60	0/60	0/60	0/60	0/60
Refrigerant connections	Liquid/Gas	mm (inch)	6.35 (1/4") / 12.7 (1/2")				
	Condensate drain	mm	18.5	18.5	18.5	18.5	18.5
Accessories							
Remote control			DHIR-5-6-XRV-K-P				
Wired remote control			DHW-5-6-XRV-P				
Optional parts							
Centralized control			DHC-8-64-XRV-P				

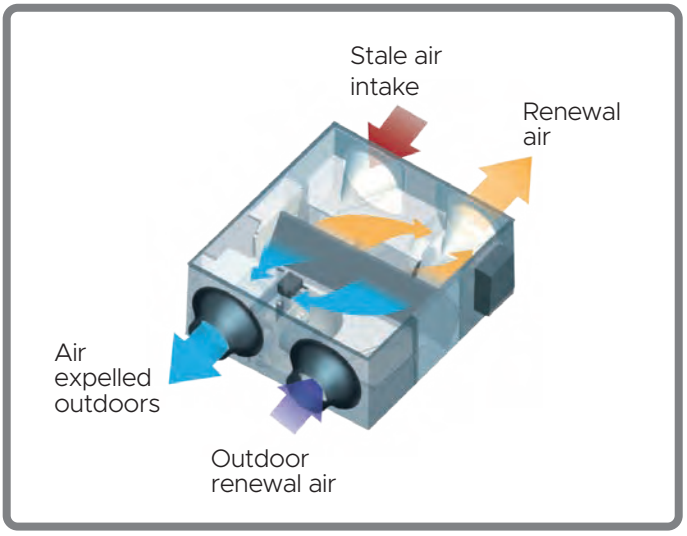
1. Values related to Max and Min speed of 7 levels settable by remote control.

TOTAL HEAT EXCHANGER

EHIN 304~404

EHIN 504~2004

The control must be purchased as an accessory



Enthalpy heat recovery unit.
Energy recovery during heat exchanges in rooms

Ventilation units with heat recovery are suited for use in bars, restaurants, offices, gyms, changing rooms and all rooms where air needs to be exchanged during hours of operation.

The units consist of two centrifugal fans: one introduces clean air filtered from outside and the other one expels the stale air from the inside. The two air flows go through one blade heat exchanger, in which part of the heat is recovered.

Depending on the season, the indoor air heats or cools the outdoor air, which is introduced without coming into contact with it.

- 7 power sizes: 300~2000 m³/h.
- DC Inverter fan.
- Mandatory wired remote control.

Model			EHIN 304	EHIN 404	EHIN 504	EHIN 804	EHIN 1004	EHIN 1504	EHIN 2004
Exchange efficiency[1]	Enthalpy	%	72.1	73.5	74.0	72.3	76.0	69.4	74.7
	Thermal	%	75.5	77.7	80.6	78.7	82.8	75.5	77.2
Electrical data									
Power supply		Ph-V-Hz	1-220~240-50						
Power absorption		W	100	110	150	320	380	680	950
Rated absorbed current		A	0.84	0.97	1.20	2.40	2.90	3.80	5.70
Product Specifications									
External dimensions	LxHxD	mm	914x272x1195	1204x272x1276	1106x390x1311	1286x390x1311	1526x390x1311	1425x615x1740	1625x685x1811
Net weight		Kg	56.5	71.5	76	80	90	181.5	208.5
Sound power level	Hi	dB(A)	48	48	50	55	54	69	70
Treated air		m³/h	300	400	500	800	1000	1500	2000
Fan static pressure	Hi	Pa	90	100	90	140	160	180	200
Ducting flange		mm	ø144	ø198	ø244	ø244	ø244	ø346x326	ø346x326
Ducting flange			Not required					Necessary	
Field of application (max UR 80%)		°C	-7~43						
Field of application			IPX2						
Accessories									
Wired remote control (not included)			DHW EH						
Optional parts									
Group control			DHWT-16-XRV-P						
Centralized control			DHC-8-64-XRV-P / DHC-48-384-XRV-P						

Reference legislation: EU Ecodesign Directive 1253/2014 for non-residential ventilation units (NRVU) and residential ventilation (RVU).
1. Values related to the high speed of the 3 levels settable by wired remote control.

EEV KIT

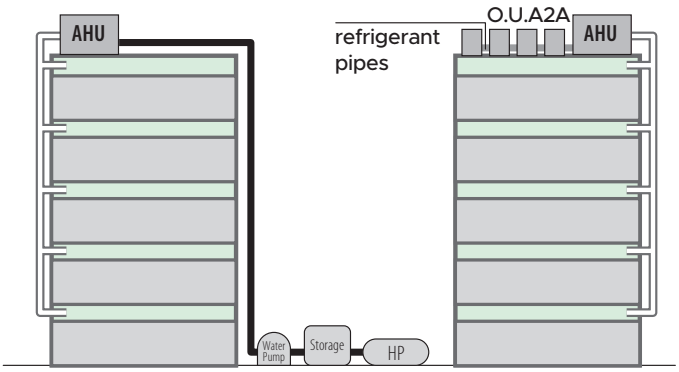
Kit for connecting AHU with direct expansion coil to Hokkaido XRV systems.

HAHU 2-9 XRV-R
HAHU 9-20 XRV-R

HAHU 20-36 XRV-R
HAHU 36-56 XRV-R

Traditional VS XRV systems with EET-KIT

Below is a comparison between a traditional connection system and an XRV system with EEV-KIT connection.



EEV-KIT lets you connect direct air handling unit expansion coils to XRV systems.

These kits are composed of an expansion valve and electronic control to manage refrigerant flow toward the AHU: in this way, AHU systems can make use of the advantages linked to XRV technology.

EEV-KIT Application diagrams

Diagram type A: Mixed system indoor unit XRV + AHU

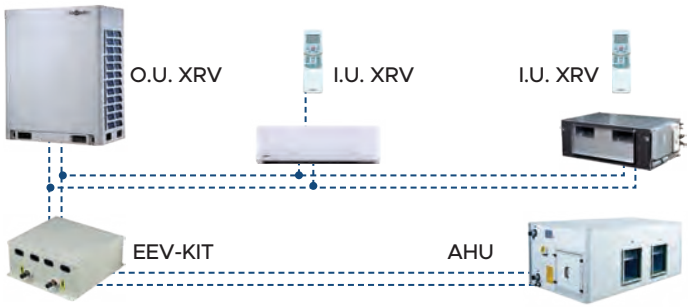
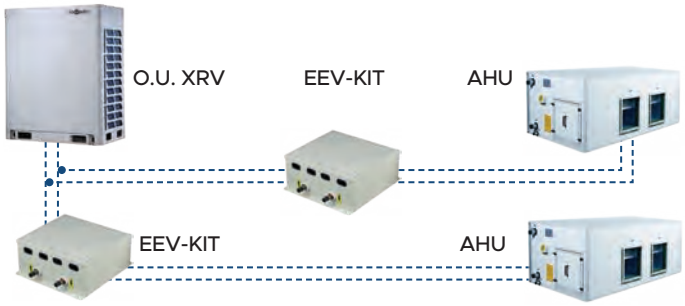


Diagram type B: AHU only



EEV-KIT Advantages

High energy efficiency thanks to XRV technology which involves:

- improved inside temperature control in rooms;
- reduced energy consumption linked to Inverter technology;
- reduced outdoor unit start&stop cycles;
- lower installation and maintenance costs with respect to traditional systems which use an AHU.

Installation and operation

Here are a series of instructions regarding EEV-KIT functionality and the correct installation methods.

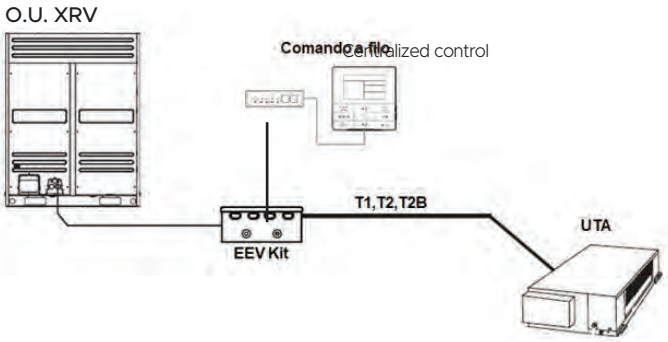
- Failure feedback function: error codes can be shown on the display when malfunctions occur.
  It is also possible to verify the set temperature.
- Maximum number of EEV-Kit that can be connected to an AHU: 4 (maximum reachable capacity 224 kW).
- Maximum distance between EEV Kits and AHU: 8 m.
  Kit can be connected with XRV systems with R410A.

EEV KIT

Technical data

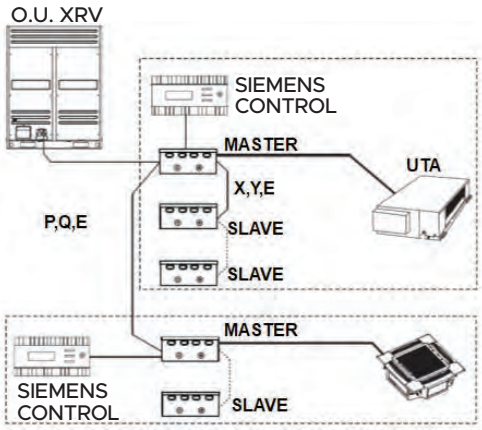
Model			HAHU 2-9 XRV-R	HAHU 9-20 XRV-R	HAHU 20-36 XRV-R	HAHU 36-56 XRV-R
Rated capacity		kW	2.20~9.00	9.00~20.00	20.00~36.00	36.00~56.00
Power supply		Ph-V-Hz	1-220~240V-50Hz			
Dimensions	LxHxD	mm	344x393x125			
Net weight		Kg	5.7	5.7	5.8	6
In/out refrigerant connections		mm (inch)	9.53 (3/8")	9.53 (3/8")	12.7 (1/2")	15.9 (5/8")
Serial control		type	Wired remote control			
Optional parts						
Third-party control			Siemens POL 638.70			
Centralized control			DHC-8-64-XRV-P			

Electrical connections diagram



Room temperature control occurs with the same logic as an XRV: comparing the temperature detected by the T1 sensor and the setting temperature Ts, it is possible to start or stop the outdoor unit, calculate the required thermal load and manage the refrigerant flow through the electronic expansion valve.

Master-slave connection logic



KEY:
MASTER: EEV KIT Master
SLAVE: EEV KIT Slave
P, Q, E: signal between EEV KIT Master - Outdoor unit XRV
X, Y, E: signal between EEV KIT Master - EEV KIT Slave

In the case of parallel connections of more than one EEV-KIT to service a AHU, the connection logic to be followed is that of Master-Slave.

EEV-KIT type selection

Model	HP	I.U. rated capacity (kW)
HAHU 2-9 XRV-R	0.8	Between 2.20 and 2.80 kW
	1	Between 2.80 and 3.60 kW
	1.2	Between 3.60 and 4.50 kW
	1.7	Between 4.50 and 5.60 kW
	2	Between 5.60 and 7.10 kW
	2.5	Between 7.10 and 8.00 kW
	3	Between 8.00 and 9.00 kW
HAHU 9-20 XRV-R	3.2	Between 9.00 and 11.20 kW
	4	Between 11.20 and 14.00 kW
	5	Between 14.00 and 18.00 kW
	6	Between 18.00 and 20.00 kW
HAHU 20-36 XRV-R	8	Between 20.00 and 25.00 kW
	10	Between 25.00 and 30.00 kW
	12	Between 30.00 and 36.00 kW
HAHU 36-56 XRV-R	14	Between 36.00 and 40.00 kW
	16	Between 40.00 and 45.00 kW
	18	Between 45.00 and 50.00 kW
	20	Between 50.00 and 56.00 kW

The choice of the quantities and capacity of the EEV KITs to be installed is related to the power of the AHU to which it must be connected.

Example

If the AHU has a capacity of 92 kW, 2 EEV-KITs can be installed:

- HAHU 20-36 XRV-R - setting capacity 12HP;
- HAHU 36-56 XRV-R - setting capacity 20HP.

HEATING

HEATING, THE RANGE THAT MEETS ALL NEEDS

The careful process of selecting system requirements and design is expanding in Europe. Thanks to continuous technological research for this purpose, an exclusive hydronic pump range has found its place on the market.

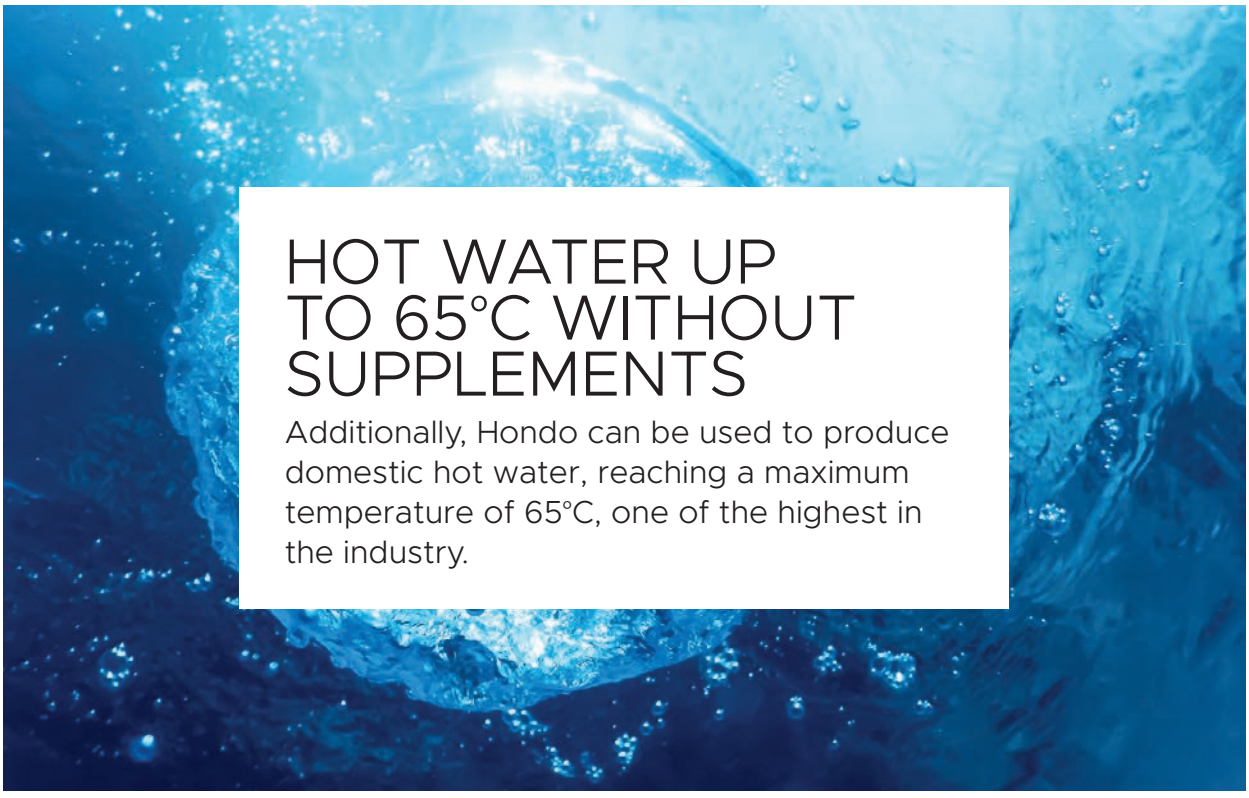
The **HEATING** product range therefore incorporates a selection of excellent products for heating, air conditioning and DHW production for the residential and commercial sectors.

HONDO

R32 MONOBLOC AIR-TO-WATER HEAT PUMP

Hondo is Hokkaido's new monoblock air/water heat pump incorporating a high-tech Full DC Inverter with an integrated hydronic module.

The monoblock heat pump Hondo has been designed for both residential and commercial use and is ideal for winter heating, summer cooling and domestic hot water production.



HOT WATER UP TO 65°C WITHOUT SUPPLEMENTS

Additionally, Hondo can be used to produce domestic hot water, reaching a maximum temperature of 65°C, one of the highest in the industry.

FOR RENOVATIONS AND NEW BUILDINGS

Hondo provides a reliable and cost-effective heating, cooling, and ACS production solution for small apartment buildings, single family homes, and flats.

EFFICIENT AND QUIET

As a result of the latest generation of Full DC Inverter technology, you will benefit from the highest level of performance and energy savings. Equipped with intelligent management to enable comfortable and healthy conditions for users at all times.

CLIMATE CURVE

Based on the external temperature, automatically adjusts the water delivery temperature as well as the room temperature.

Climate zones for the heating system

Outdoor design temp.	Maximum delivery temp.	Climate zones
+10°C	65°C	
+5°C	62°C	WARMER
+2°C	60°C	
0°	59°C	
-5°C	56°C	AVERAGE
-10°C	53°C	
-15°C	50°C	
-20°C	47°C	COLDER
-25°C	44°C	

HONDO MONOBLOC R32

OUTDOOR UNITS

Single phase 5.00~6.00 kW
HCWNGS 401 - 601 Z

Single phase 8.20~15.70 kW
HCWNGS 801 - 1001 - 1201 - 1401 - 1601 Z
Three-phase 10.20~15.70 kW
HCWSGS 1001 - 1201 - 1401 - 1601 Z

WiFi included

Management via EWPE Smart App

TOP PERFORMANCE IN ALL SEASONS

Guaranteed heating performance up to -25°C outside temperature. The Hondo heat pump can be installed in any climatic zone, even in those with the most severe conditions. During the summer, it can provide cooling to temperatures up to 48°C outside.

-15°/+48°C
Outside temperature in cooling

-25°/+35°C
Outside temperature in heating

-25°/+45°C
DHW production outside temperature

PRODUCT PLUSES

Aluminium fins with anti-corrosion coating
It guarantees greater resistance to salt corrosion.

Emergency Mode
Auxiliary electrical resistors are activated in the event of a malfunction of the heat pump.

Connection with other heat sources
The outdoor heat source will be activated if the outdoor temperature falls below the set-point temperature.

Timer
Weekly up to 3 programs.

Silent mode
Silent mode operation.

Anti-legionella cycles
Activation of the anti-legionella function.

HONDO MONOBLOC R32

PERFORMANCE

	MODEL	COP	EER
Single phase	HCWNGS 401 Z	5.40	5.20
	HCWNGS 601 Z	5.40	5.10
	HCWNGS 801 Z	5.32	5.32
	HCWNGS 1001 Z	5.05	5.10
	HCWNGS 1201 Z	4.94	4.90
	HCWNGS 1401 Z	4.75	4.57
	HCWNGS 1601 Z	4.55	4.31
Three-phase	HCWSGS 1001 Z	4.95	4.79
	HCWSGS 1201 Z	4.82	4.60
	HCWSGS 1401 Z	4.60	4.19
	HCWSGS 1601 Z	4.40	3.80

HONDO MONOBLOC R32

Single phase 5.00~6.00 kW
HCWNGS 401 - 601 Z

Single phase 8.20 kW
HCWNGS 801 Z

ENERGY EFFICIENCY CLASS

A+++

In heating mode with **35° C** delivery water temperature.

ENERGY EFFICIENCY CLASS

A++

In heating mode with **55° C** delivery water temperature.

Model					HCWNGS 401 Z	HCWNGS 601 Z	HCWNGS 801 Z
Heating	Rated power	A7//W35	kW		5.00	6.00	8.20
	Electrical absorption				0.93	1.11	1.54
	Performance coefficient		COP		5.40	5.40	5.32
	Rated power	A7/W45	kW		4.90	6.80	8.30
	Electrical absorption				1.17	1.66	1.90
	Performance coefficient		COP		4.20	4.10	4.36
Cooling	Rated power	A35//W18	kW		5.00	6.50	8.30
	Electrical absorption				0.96	1.27	1.56
	Performance coefficient		EER		5.20	5.10	5.32
	Rated power	A35//W5	kW		4.90	5.70	7.40
	Electrical absorption				1.40	1.75	2.00
	Performance coefficient		EER		3.50	3.25	3.70
Seasonal heating data	Theoretical load (Pdesignh) @-10°C	35/55	kW		5/5	6/5	8/9
	Seasonal energy efficiency (ηs)		%		192/137	199/137	177/145
	Energy efficiency class		-		A+++/A++		
	Annual energy consumption		kWh/a		2306/2882	2386/2882	3827/5206
Operating limits	Outside air temperature	Heating	°C		-25~35		
		Cooling			-15~48		
		DHW			-25~45		
	Delivery water temperature	Heating	°C		20~65		
		Cooling	°C		5~25		
Refrigerant circuit data	Refrigerant[1]		Type (GWP)		R32 (675)		
	Quantity (tons CO2)		kg (t)		0.95 (0.641)		1.6 (1.080)
	Control system				Electronic expansion valve		
	Compressor		Type		Rotary - DC Inverter		
Hydraulic data	Heat exchanger	Type			Brazed stainless steel plates		
		Air flow	m³/h		0.9	1.0	1.4
	Circulation pump	Brand			Shinhoo		
		Prevalence[2]	kPa		79	78	63
	Water connections	Type			Threaded		
		Dimensions	Inches		1"F BSP		
	Min/Max. operating pressure		bar		0.5/2.5		
	Surge tank	Volume	L		2		
		Pre-load	bar		1		
Electrical data	Power supply		Ph/V/Hz		1ph-230V-50Hz		
	Maximum current	Heating	A		11	11	23
		Cooling			8	8	12
	Power cable (recommended)		Type		3x2.5 mm²		3x6 mm²
Product specifications	Fan	Type	qty		DC Inverter		
		Air flow	m³/h		3200		5800
	Sound power level		dB(A)		58		68
	Sound pressure level	Heating	dB(A)		58		62
		Cooling			56		60
	Dimensions	LxDxH	mm		1150x372x733		1206x445x878
	Weight	Net	kg		90		120
	Control (included)				Wire remote control		

The data contained above refer to the following standards: EN14511:2013; EN14825:2013; EN50564:2011; EN12102:2011; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

1. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.
2. Values net of pressure losses of the exchanger.

HONDO MONOBLOC R32

Single phase 10.20~15.70 kW
HCWNGS 1001 - 1201 - 1401 - 1601 Z

Three-phase 10.20~15.70 kW
HCWSGS 1001 - 1201 - 1401 - 1601 Z

ENERGY EFFICIENCY CLASS

A+++

In heating mode with **35° C** delivery water temperature.

ENERGY EFFICIENCY CLASS

A++

In heating mode with **55° C** delivery water temperature.

Model				HCWNGS 1001 Z	HCWNGS 1201 Z	HCWNGS 1401 Z	HCWNGS 1601 Z	HCWSGS 1001 Z	HCWSGS 1201 Z	HCWSGS 1401 Z	HCWSGS 1601 Z
Heating	Rated power	A7//W35	kW	10.20	12.00	14.20	15.70	10.20	12.00	14.20	15.70
	Electrical absorption			2.02	2.43	2.99	3.45	2.06	2.49	3.09	3.57
	Performance coefficient		COP	5.05	4.94	4.75	4.55	4.95	4.82	4.60	4.40
	Rated power	A7/W45	kW	10.20	13.00	14.20	16.20	10.20	13.00	14.20	16.20
	Electrical absorption			2.50	2.45	3.00	3.60	2.13	2.61	3.32	4.05
	Performance coefficient		COP	4.08	5.31	4.73	4.50	4.79	4.98	4.28	4.00
Cooling	Rated power	A35//W18	kW	10.20	12.00	13.70	15.50	10.20	12.00	13.90	15.40
	Electrical absorption			2.00	2.45	3.00	3.60	2.13	2.61	3.32	4.05
	Performance coefficient		EER	5.10	4.90	4.57	4.31	4.79	4.60	4.19	3.80
	Rated power	A35//W5	kW	9.00	11.10	13.30	13.80	9.10	11.10	13.30	13.80
	Electrical absorption			2.65	3.58	4.75	5.09	2.80	3.58	4.75	5.09
	Performance coefficient		EER	3.40	3.10	2.80	2.71	3.25	3.10	2.80	2.71
Seasonal heating data	Theoretical load (Pdesignh) @-10°C	35/55	kW	9/10	12/12	13/13	14/14	9/10	12/12	13/13	13/14
	Seasonal energy efficiency (ηs)		%	176/135	188/144	185/145	184/145	189/140	180/137	179/138	179/138
	Energy efficiency class		-	A+++/A++							
	Annual energy consumption		kWh/a	4163/6076	5194/6606	5682/7456	6072/7768	4069/5907	5517/6990	5927/7769	5927/8014
Operating limits	Outside air temperature	Heating	°C	-25~35							
		Cooling		-15~48							
		DHW		-25~45							
	Delivery water temperature	Heating	°C	20~65							
		Cooling	°C	5~25							
Refrigerant circuit data	Refrigerant[1]		Type (GWP)	R32 (675)							
	Quantity (tons CO2)		kg (t)	1.6 (1.080)	2.2 (1.485)			1.6 (1.080)	2.2 (1.485)		
	Control system			Electronic expansion valve							
	Compressor		Type	Rotary - DC Inverter							
Hydraulic data	Heat exchanger	Type		Brazed stainless steel plates							
		Air flow	m³/h	1.8	2.1	2.4	2.7	1.8	2.1	2.4	2.7
	Circulation pump	Brand		Shinhoo							
		Prevalence[2]	kPa	49	46	32	23	49	46	34	23
	Water connections	Type		Threaded							
		Dimensions	Inches	1"F BSP							
	Min/Max. operating pressure		bar	0.5/2.5							
	Surge tank	Volume	L	2	3			3			
		Pre-load	bar	1	1			1			
Electrical data	Power supply		Ph/V/Hz	1ph-230V-50Hz				3ph-400V-50Hz			
	Maximum current	Heating	A	25	30	30	30	9	11.5	12	12.5
		Cooling		12	17	21	23	7	5	8	8.5
	Power cable (recommended)		Type	3x6 mm²				5x2.5 mm²			
Product specifications	Fan	Type	qty	DC Inverter							
		Air flow	m³/h	5800	5015			5800	5015		
	Sound power level		dB(A)	68	68			68	68		
	Sound pressure level	Heating	dB(A)	62	54	55	56	60	54	55	56
		Cooling		60	55	57	59	57	55	57	59
	Dimensions	LxDxH	mm	1206x445x878				1206x445x878			
	Weight	Net	kg	120	138			134	144		
	Control (included)			Wire remote control							

The data contained above refer to the following standards: EN14511:2013; EN14825:2013; EN50564:2011; EN12102:2011; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

1. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.
2. Values net of pressure losses of the exchanger.

HOT WATER

HWMBS 8080-D A

Monobloc heat pump water heater 80 liters “Ducted kitchen” series

GAS R134A

80L

Duplex technology

EN 16147 certification from an TUV Sud accredited.

Anti-legionella cycle

Water heater in a monoblock heat pump, designed to be installed inside the kitchen column cabinet

R134A | Refrigerant gas

60° C | Hot water with the compressor only

Anti-legionella cycle

Outstanding corrosion resistance thanks to **Duplex technology**

ErP Ready

PERFORMANCE

MODEL	LOAD	ENERGY CLASS	COP In accordance with EN 16147
HWMBS 8080-D A	80 L	M A++	4.20

Model			HWMBS 8080-D A
Tank volume		L	80
Solar integration coil (stainless steel)		m^2	Not present
Rated thermal power[1]		W	1050
Rated power consumption[1]		W	250
Rated hot water production capacity[1]		L/h	20
COP (rated)[1]		W/W	4.2
COP_{DHW}[2]		W/W	3.04
Test cycle profile[2]		-	M
Warm-up time [2]		hh:mm	03:42
Volume of hot water at 40°C[2]		L	116
Energy Efficiency Class[3]		-	A++
IP Degree of protection		-	IPX1
Hot water T. adjustment interval		°C	38~70 (50 default)
Maximum DHW temperature only compressor		°C	60
Electrical data	Power	Ph-V-Hz	1-220~240V-50Hz
	Integrative heating element	W	1500
	Maximum current (including heating element)	A	8.30
Refrigerant circuit data	Refrigerant[4]	Type (GWP)	R134a (1430)
	Quantity	kg	0.65
	Tons of CO2 equivalent	t	0.930
	Compressor	Type	Rotary ON/OFF
Product specifications	Dimensions (Diameter x Height)	mm	520 x 1160
	Net weight	kg	50
	Sound power level	dB(A)	46
	Sound pressure level at 2 m	dB(A)	31
Tank	Tank material	-	Duplex steel
	DHW connections	Inches	G1/2" (DN15)
	Solar coil connections	Inches	-
	Anode Type	-	Not present
	Maximum operating pressure	bar	10
Suctioned air	Operating range	°C	-5~+43
	Rated flow (not ducted)	m^3/h	300
	Air flow (ducted)	Pa	60
	Air duct - Diameter	mm	120
	Air duct - Length	m	8

1. Conditions: intake air 20°C DB (15°C WB), inlet water 15°C / outlet 55°C. 2. Test according to EN16147; air 20° C.
3. Directive 2009/125/EC - EU ERP no. 814/2013 (TUV South Certification). 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 1430. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 1430 times higher than 1 kg of CO_2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

SAFETY

The tank is made of Duplex, a variety of extremely strong and corrosion-resistant stainless steel.

Legionella prevention system: periodic cycles that raise the temperature of the water inside the accumulation beyond 65° C prevent the growth of legionella bacteria.

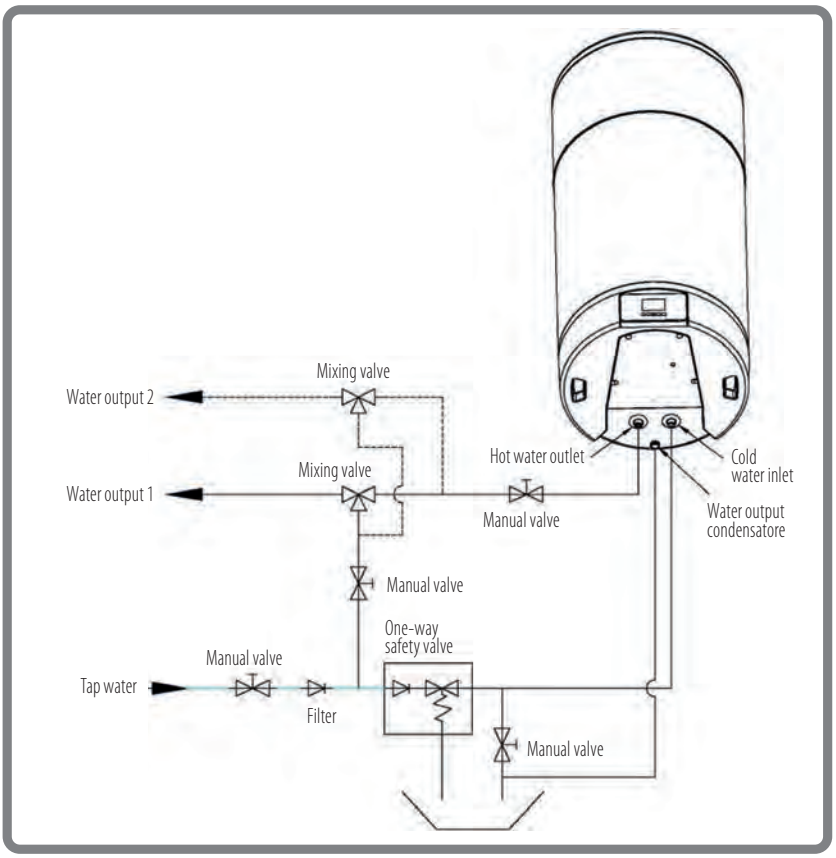
COMFORT AT HOME

Designed to be installed in the kitchen, the "Ducted Kitchen" series sits comfortably inside the kitchen furniture, equipped with an air ejection system.

INSTALLATION INSTRUCTIONS

1. It is mandatory to install a safety and non-return valve on the cold water inlet. Otherwise you could seriously damage the equipment. Use a valve with calibration 0.7 MPa.
   For the installation site, refer to the piping connection diagram.
2. Ensure that the exhaust pipe of the safety valve descends vertically and is not placed in an environment that is susceptible to freezing.
3. The water must be able to drain freely from the pipe and its terminal part must have no obstructions.
4. In order to ensure that the safety valve is functioning correctly, it must be tested regularly and limestone that could block it must be removed.

HYDRAULIC CONNECTIONS DIAGRAM



Note: Solar heat exchange coil is optional.

HOT WATER

HWMBS 2201 A | HWMBS 2301 A | HWMBS 4501 A

Water heater with heat pump, monobloc 200/300/500 liters “Ducted” series

GAS R134A

200L 300L 500L

EN 16147 certification from an TUV Sud accredited.

Anti-legionella cycle

No integration with solar thermal

- Water heater with heat pump, monobloc on base
- **R134A** | Refrigerant gas
- **Stainless steel tank**
- **60° C** | Hot water with the compressor only
- **Anti-legionella cycle** | Can be customized for different needs or can be excluded
- Innovative soft touch control panel to facilitate commissioning, use and maintenance
- ErP Ready

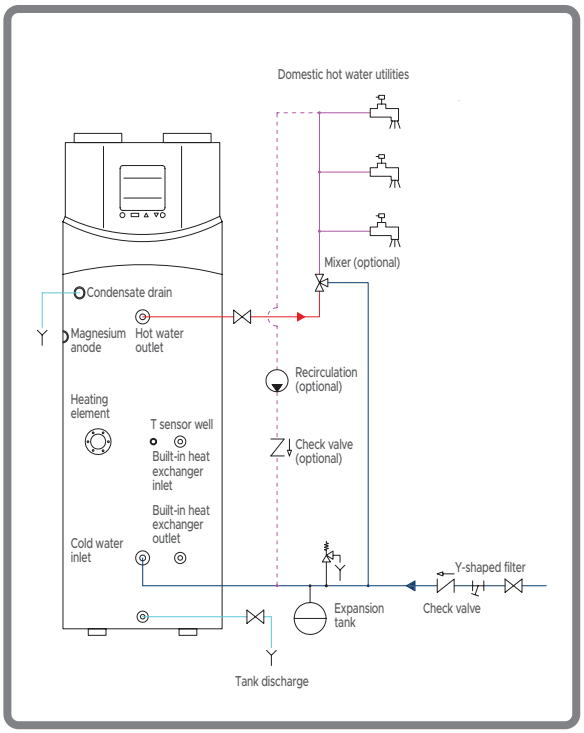
PERFORMANCE

MODEL	LOAD	ENERGY CLASS	COP In accordance with EN 16147
HWMBS 2201 A	200 L	L A	2.64
HWMBS 2301 A	300 L	XL A	2.69
HWMBS 4501 A	500 L	XXL A	2.66

Model			HWMBS 2201 A	HWMBS 2301 A	HWMBS 4501 A
Tank volume		L	200	300	500
Solar integration coil (stainless steel)		m^2	Not present	Not present	Not present
Rated thermal power[1]		W	2020	2020	3800
Rated power consumption[1]		W	486	486	945
Rated hot water production capacity[1]		L/h	43.2	43.2	81.7
COP (rated)[1]		W/W	4.16	4.16	4.02
COP_{DHW}[2]		W/W	2.64	2.69	2.66
Test cycle profile[2]		-	L	XL	XXL
Volume of hot water at 40°C[2]		L	251	380	594
Energy Efficiency Class[3]		-	A	A	A
IP Degree of protection		-	IPX1	IPX1	IPX1
Hot water T. adjustment interval		°C	10~70 (50 default)	10~70 (50 default)	10~70 (50 default)
Maximum DHW temperature only compressor		°C	60	60	60
Electrical data	Power	Ph-V-Hz	1-220~240V-50Hz		
	Integrative heating element	W	1500		
	Maximum current (including heating element)	A	10.0	10.0	13.0
Refrigerant circuit data	Refrigerant[4]	Type (GWP)	R134a (1430)	R134a (1430)	R134a (1430)
	Quantity	kg	0.80	0.80	1.60
	Tons of CO2 equivalent	t	1.144	1.144	2.280
	Compressor	Type	Rotary ON/OFF		
Product specifications	Dimensions (Diameter x Height)	mm	560 x 1755	640 x 1850	700 x 2230
	Net weight	kg	90	100	117
	Sound power level	dB(A)	55	56	59
	Sound pressure level at 2 m	dB(A)	46	46	48
Tank	Tank material	-	Acciaio INOX 304		
	DHW connections	Inches	G1" (DN25)	G1" (DN25)	G1" (DN25)
	Solar coil connections	Inches	-	-	-
	Anode Type	-	Titanium electrode with alarm LED		
	Maximum operating pressure	bar	10	10	10
Suctioned air	Operating range	°C	-5~+43		
	Rated flow (not ducted)	m^3/h	400	400	800
	Air flow (ducted)	Pa	60	60	60
	Air duct - Diameter	mm	177	177	177
	Air duct - Length	m	6	6	6

1. Conditions: intake air 20°C DB (15°C WB), inlet water 15°C / outlet 55°C. 2. Test according to EN16147; air 15°C for 200 and 300L models; air 7°C for 500L model. 3. Directive 2009/125/EC - EU ERP no. 814/2013 (TUV South Certification for all models). 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 1430. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 1430 times higher than 1 kg of CO2, over a period of 100 years.
Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

HYDRAULIC CONNECTIONS DIAGRAM



HOT WATER

HWMBS 2201 HEA | HWMBS 2301 HEA | HWMBS 4501 HEA

Water heater with heat pump, monobloc 200/300/500 liters “Ducted” series

GAS R134A

200L 300L 500L

EN 16147 certification from an TUV Sud accredited.

Anti-legionella cycle

Possibility of integration with solar thermal

- Water heater monobloc on base with the possibility of integration with solar thermal
- **R134A** | Refrigerant gas
- **Stainless steel tank**
- **60° C** | Hot water with the compressor only
- **Anti-legionella cycle** | Can be customized for different needs or can be excluded
- Innovative soft touch control panel to facilitate commissioning, use and maintenance
- ErP Ready

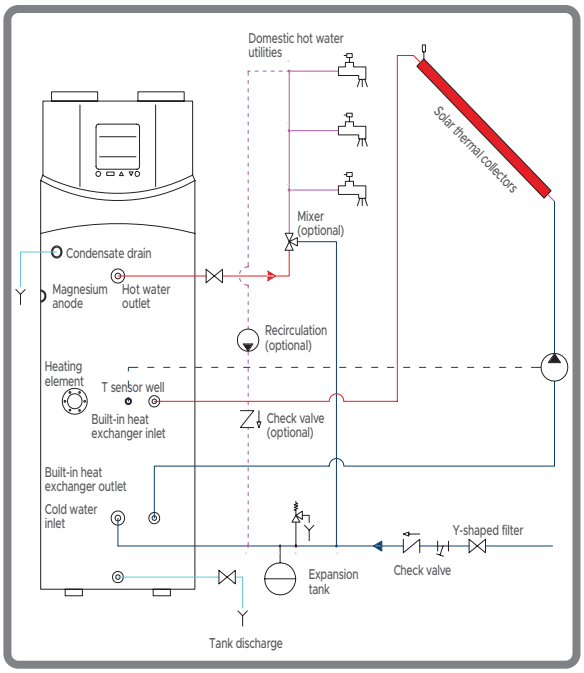
PERFORMANCE

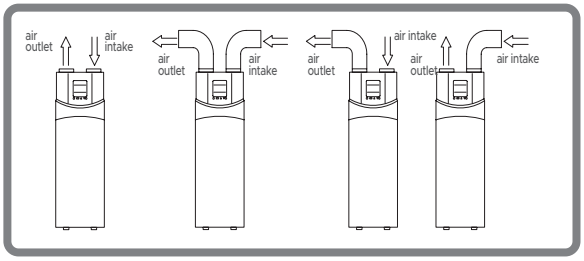
MODEL	LOAD	ENERGY CLASS	COP In accordance with EN 16147
HWMBS 2201 HEA	200 L	L A	2.61
HWMBS 2301 HEA	300 L	XL A	2.68
HWMBS 4501 HEA	500 L	XXL A	2.66

Model			HWMBS 2201 HEA	HWMBS 2301 HEA	HWMBS 4501 HEA
Tank volume		L	200	300	500
Solar integration coil (stainless steel)		m2	1.0	1.0	1.0
Rated thermal power[1]		W	2040	2040	3800
Rated power consumption[1]		W	465	460	945
Rated hot water production capacity[1]		L/h	43.5	43.5	82.0
COP (rated)[1]		W/W	4.39	4.43	4.02
COP_{DHW}[2]		W/W	2.61	2.68	2.66
Test cycle profile[2]		-	L	XL	XXL
Volume of hot water at 40°C[2]		L	250	390	594
Energy Efficiency Class[3]		-	A	A	A
IP Degree of protection		-	IPX1	IPX1	IPX1
Hot water T. adjustment interval		°C	10~70 (50 default)	10~70 (50 default)	10~70 (50 default)
Maximum DHW temperature only compressor		°C	60	60	60
Electrical data	Power	Ph-V-Hz	1-220~240V-50Hz		
	Integrative heating element	W	1500		
	Maximum current (including heating element)	A	10.0	10.0	13.0
Refrigerant circuit data	Refrigerant[4]	Type (GWP)	R134a (1430)	R134a (1430)	R134a (1430)
	Quantity	kg	1.0	1.0	1.6
	Tons of CO2 equivalent	t	1.430	1.430	2.280
	Compressor	Type	Rotary ON/OFF		
Product specifications	Dimensions (Diameter x Height)	mm	560 x 1755	640 x 1850	700 x 2230
	Net weight	kg	95	105	122
	Sound power level	dB(A)	58.2	58.2	59.2
	Sound pressure level at 2 m	dB(A)	37.8	37.8	37.2
Tank	Tank material	-	Stainless steel 304		
	DHW connections	Inches	G1" (DN25)	G1" (DN25)	G1" (DN25)
	Solar coil connections	Inches	G3/4" (DN20)	G3/4" (DN20)	G3/4" (DN20)
	Anode Type	-	Titanium electrode with alarm LED		
	Maximum operating pressure	bar	10	10	10
Suctioned air	Operating range	°C	-5~+43		
	Rated flow (not ducted)	m3/h	400	400	800
	Air flow (ducted)	Pa	60	60	60
	Air duct - Diameter	mm	177	177	177
	Air duct - Length	m	6	6	6

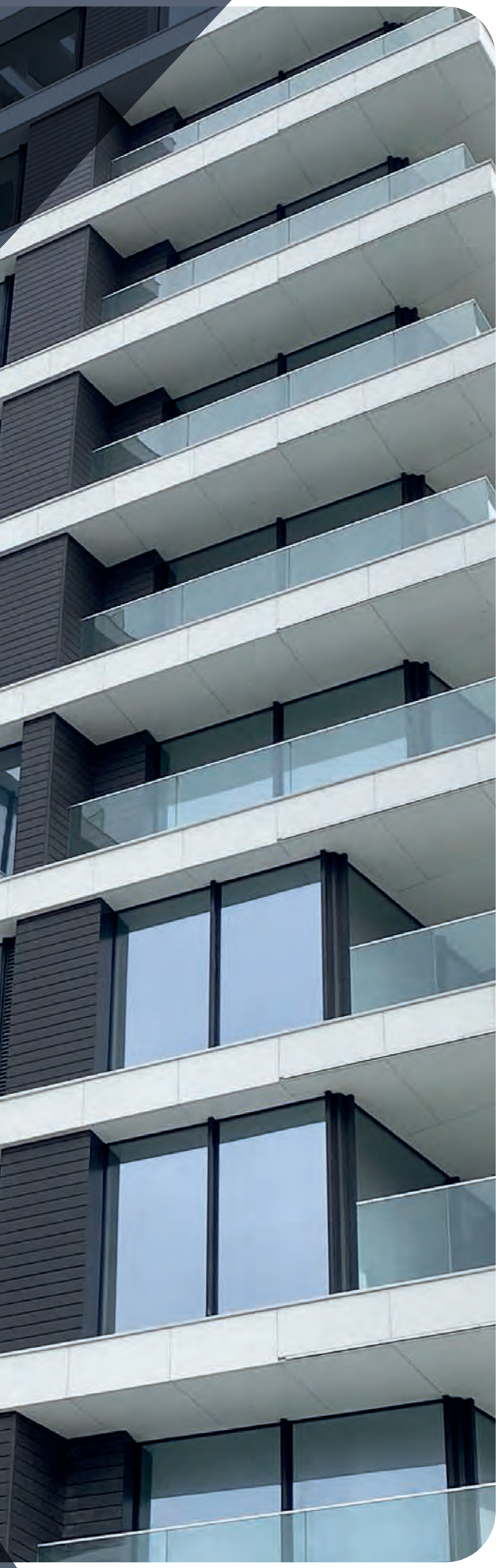
1. Conditions: intake air 20°C DB (15°C WB), inlet water 15°C / outlet 55°C. 2. Test according to EN16147; air 7°C.
3. Directive 2009/125/EC - EU ERP no. 814/2013 (TUV South Certification for all models). 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 1430. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 1430 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

HYDRAULIC CONNECTIONS DIAGRAM





CONTROLS



CONTROLS

INDIVIDUAL RESIDENTIAL AND COMMERCIAL CONTROLS

R32
ARASHI

- On/off.
- Mode: cooling, heating, dehumidifying, ventilation, automatic, eco.
- Adjustable fan speed: low, medium-low, medium, medium-high, high or automatic.
- Vertical and horizontal louver swing.
- Sleep.
- Turbo.
- Silence Mode.
- Child lock.
- Follow Me function.
- On/off timer.
- Light Ventilation "Gentle Wind".
- Self Clean.
- Timer.
- "Health" air purification.

R32
ACTIVE LINE

- On/off.
- Mode: cooling, heating, dehumidifying, ventilation, automatic.
- Fan speed: low, medium, high or automatic.
- Vertical louver swing.
- Direct function.
- Sleep.
- Turbo.
- LED function.
- Silence Mode.
- FP Mode.
- Follow Me function.
- On/off timer.
- Self Clean.

R32
INAZAMI

- On/off.
- Mode: cooling, heating, dehumidifying, ventilation, automatic.
- Adjustable fan speed: 1~100%.
- Vertical and horizontal louver swing.
- Sleep.
- Turbo.
- LED function.
- Silence Mode.
- FP mode.
- Follow Me function.
- On/off timer.
- Breeze Away.
- Eco/Gear.
- Fresh.

R32
V-DESIGN PLUS

- On/off.
- Mode: cooling, heating, dehumidifying, ventilation, automatic.
- Fan speed: low, medium, high or automatic.
- Vertical louver swing.
- Sleep.
- Turbo.
- LED function.
- Eco function.
- Follow Me function.
- On/off timer.
- Self Clean.

R32
compact cassette 60x60
slim cassette 84x84
floor/ceiling

- On/off.
- Mode: cooling, heating, dehumidifying, ventilation, automatic.
- Fan speed: low, medium, high or automatic.
- Vertical and horizontal louver swing.
- Sleep.
- Turbo.
- LED function.
- Follow Me function.
- On/off timer.
- Self Clean.
- Shortcut function.

R32
console

- On/off.
- Mode: cooling, heating, dehumidifying, ventilation, automatic.
- Fan speed: low, medium, high or automatic.
- Vertical louver swing.
- Sleep.
- Turbo.
- LED function.
- Eco function.
- Follow Me function.
- On/off timer.
- Self Clean.

INDIVIDUAL RESIDENTIAL AND COMMERCIAL CONTROLS

R32
medium static pressure duct

- On/off.
- Mode: cooling, heating, dehumidifying, ventilation, automatic.
- Clock and timer setting.
- Clock and On/off timer.
- Vertical and horizontal swing (on some models).
- Fan speed: low, medium, high or automatic.
- Weekly timer.
- Follow Me function.
- Child lock.
- LCD display.
- Infrared remote control (on some models).
- Lifting panel (on some models).

OPTIONAL INDIVIDUAL COMMERCIAL CONTROLS

DHW-WT-ZA
Compact and slim cassette, ceiling/floor

- On/off.
- Mode: cooling, heating, dehumidifying, ventilation, automatic.
- Clock and timer setting.
- Clock and On/off timer.
- Automatic air flow test.
- Independent louver control.
- Fan speed: low, medium, high or automatic.
- Temperature limit setting.
- Weekly timer.
- Turbo.
- Follow Me function.
- Key lock.
- Child lock.
- ESP setting.
- Error detection.
- Auto-restart.

INDIVIDUAL XRV CONTROLS

DHIR-5-6-XRV-K-P

- On/off.
- Mode: cooling, heating, dehumidifying, ventilation, automatic.
- Horizontal louvre swing (only active for floor/ceiling I.U.).
- Vertical louver swing.
- Reset.
- Key lock.
- Fan speed: low, medium, high or automatic.
- Clock and On/off timer.
- Eco function.

DHW-5-6-XRV-P

- On/off.
- Mode: cooling, heating, dehumidifying, ventilation, automatic.
- Vertical louver swing.
- Silent mode.
- Reset.
- Key lock.
- Fan speed: low, medium, high or automatic.
- Clock and On/off timer.
- Eco function.
- Filter cleaning indicator.

GROUP XRV CONTROLS

DHWT-16-XRV-P

- On/off.
- Mode: cooling, heating, dehumidifying, ventilation, automatic.
- Vertical louver swing.
- Silent mode.
- Reset.
- Key lock.
- Fan speed: low, medium, high or automatic.
- Clock and On/off timer.
- Weekly timer.
- Eco function.
- Reminder of filter cleaning.
- Group control up to 16 I.U.

CENTALIZED XRV CONTROLS

DHC-8-64-XRV-P

- On/off.
- Mode: cooling, heating, dehumidifying, ventilation, automatic.
- Vertical louver swing.
- Silent mode.
- Reset.
- Key lock.
- Fan speed: low, medium, high or automatic.
- Clock and On/off timer.
- Weekly timer up to maximum 20 programs.
- Holiday mode.
- Eco function.
- Error detection.
- Manages up to 20 groups.
- Report export via USB.

DHC-48-364-XRV-P

- On/off.
- Mode: cooling, heating, dehumidifying, ventilation, automatic.
- Vertical louver swing.
- Silent mode.
- Reset.
- Key lock.
- Fan speed: low, medium, high or automatic.
- Clock and On/off timer.
- Weekly timer up to maximum 20 programs.
- Holiday mode.
- Eco function.
- Error detection.
- Manages up to a 48 groups and 384 I.U.
- Report export via USB.
- Consumption analysis.

INDIVIDUAL SIMPLIFIED XRV CONTROLS

DTWS 4 IHXR Compact

- On-off.
- Mode: cooling, heating, dehumidifying, ventilation, automatic.
- Clock and timer setting.
- Positioning of motorized louvres.
- Fan speed: low, medium, high or automatic.
- Reminder of filter cleaning.
- Wireless signal receiver.
- Key lock.
- Eco function.
- Follow Me function.

DTW IHXR Simply

- On-off.
- Mode: cooling, heating, dehumidifying, ventilation, automatic.
- Fan speed: low, medium, high or automatic.
- Reminder of filter cleaning.
- Wireless signal receiver.
- Key lock.
- Eco function.
- Follow Me function.
- Button 26° C.

OPTIONAL ACCESSORIES

DTA-XRV-P-I
Three-phase O.U. XRV

- Power consumption detector.
- Digital ammeter for measuring the electrical consumptions of the XRV outdoor units.
- Accessory can only be integrated with centralizer DHC-48-384-XRV-P.

INTERFACES FOR BMS PROTOCOLS

DHMOD1-XRV-I
Modbus

- Connects up to 64 indoor units and 4 outdoor units.
- Modbus communication protocol.

DHLON1-XRV-I
Lonworks

- Connects up to 64 indoor units and 4 outdoor units.
- Lonworks communication protocol.

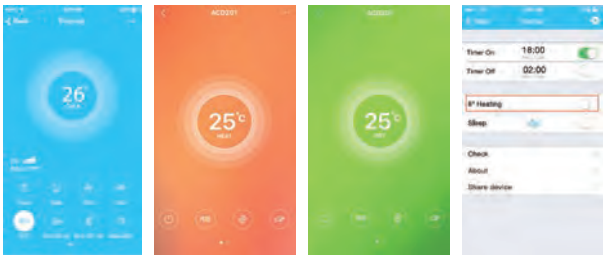
DHBAC1-XRV-I
Bacnet Gateway

- Connects up to 64 indoor units and 4 outdoor units.
- Bacnet communication protocol.

HOKKAIDO WIFI

Wi-Fi HKM-WIFI and HKM-WIFI-TB controls

Some examples of screens from iOs devices



All your main air conditioning settings right from your smartphone

Hokkaido HKM-WIFI and HKM-WIFI-TB modules for remote control access to your air conditioner via an app that can be downloaded to a smartphone.

Hokkaido provides Wi-Fi systems that can be controlled from the same app on the type of indoor unit chosen by the user:

- **HKM-WIFI**: for residential wall-mounted indoor units.
- **HKM-WIFI-TB**: for commercial slim cassette indoor units.

An intelligent app that controls comfort and energy savings that benefits your energy bill.

Home air conditioning control, even away from home

The app is available for iOS and Android devices. You can download it for free from the Apple Store and the Play Store.

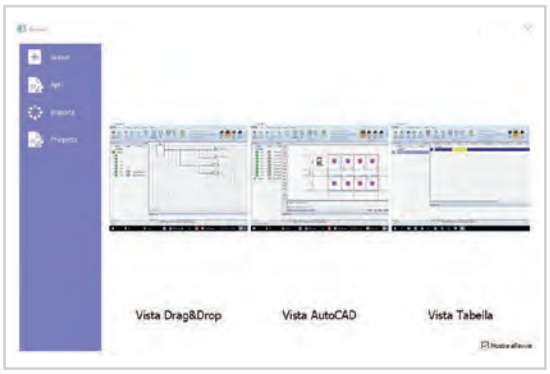
Main HOKKAIDO WiFi module functions

- Access security with account protected by credentials (UserID & PWD).
- Unique identification of each individual unit that you want to check.
- On and off control.
- Operating mode selection.
- Set temperature adjustment.
- Fan speed.
- Daily and weekly timer.
- 8° C heating activation (function that prevents the room temperature from falling below 8° C).
- Silent mode.

DESIGN SOFTWARE FOR XRV SYSTEMS

Innovative graphic interface

- Setting the initial project conditions such as customer information, designer, unit type, operating conditions and all relevant parameters for selection.
- Indoor and outdoor unit selection: in automatic selection mode, the software suggests models that meet the design conditions.
- Branch selection.
- Choice of controls and electrical system configuration.
- Project saving and data report generation.
- Automatic indication of the unit connection path and wiring diagram for quick system installation.
- Machines list report extrapolation in Word, Excel or pdf format with technical data, piping diameter and length.
- Extrapolation in dwg format of the refrigerant and electrical diagram.



OPTIONAL CONTROL COMPATIBILITY

Controls	INDOOR UNITS							
	RAC wall			PAC Hybrid				XRV Systems
	Active Line	V-Design Plus	Inazami	HTFU	HTBI	HUCI/HUCU	HSFI/HSFU	XRV-P
Wire control								
DHW-WT-ZA				●	●		●	
DHW-5-6-XRV-P								●
DHIR-5-6-XRV-K-P								●
DTWS 4 IHXR Compact								●
DTW IHXR Simply								●
Centralized control								
DHC-8-64-XRV-P								●
DHC-48-384-XRV-P								●
DHWT-16-XRV-P								●
WiFi Module								
HKM-Wi-Fi	●	●	●					
HKM-WiFi-TB					●			

APPENDIX

Detail of the control functions

- **Sleep**: improves comfort during night-time operation, through reductions (in heating) or gradual increases (in cooling) of the set temperature.
- **Turbo**: the unit runs at full speed to quickly reach the temperature in cooling or heating mode.
- **LED function**: brightness adjustment.
- **Silence mode**: diminishing of the compressor frequency with consequent reduction of noise emissions.
- **FP mode (in heating only)**: prevents the room temperature from falling below 8° C.
- **Follow Me function**: adjusts the room temperature according to the temperature detected by the remote control for maximum comfort.
- **Eco function**: automatic room temperature setting in both heating and cooling mode.
- **Self Clean**: allows the evaporator to dry, to prevent the formation of mould and bacteria.
- **Direct function**: positioning of motorized louvers.
- **Shortcut function**: automatic reset of the last settings (mode, temperature, fan speed).
- **Memory**: in case of blackout, automatically restarts with the previous settings when the power is restored.
- **Reset**: reset to factory settings.
- **Holiday mode**: allows the air conditioning system to stay in stand-by mode for the desired period without deleting the previous operating settings.
- **Breeze Away**: avoids direct air flow in cooling, ventilation and dehumidification mode.
- **Gear Function**: lets you choose the percentage of electrical energy consumed (100%, 75%, 50%) in order to save energy.
- **Fresh Function**: ion generator activation or deactivation for room air purification.
- **Gentle Wind**: in cooling mode, light ventilation function for optimal comfort.
- **Health function**: activates the bipolar ionizer and the UVC lights for air purification.

ICON KEY

REFRIGERANT GAS R32

REFRIGERANT GAS R410A

DEHUMIDIFICATION

COMPACT DESIGN

AUTOMATIC BRIGHTNESS ADJUSTMENT

TURBO FUNCTION

OUTSIDE AIR

Pre-cut for external air intake fitting.

FOLLOW ME FUNCTION

Activates the temperature sensor in the remote control.

AUTORESTART FUNCTION

Resets pre-defined settings after a blackout.

LOW ACOUSTIC IMPACT

BIO-FILTER

SELF-DIAGNOSIS FUNCTION

EASY INSTALLATION

ION GENERATOR

SLEEP FUNCTION

OPERATING RANGE

Minimum or maximum values for cooling operation.

24H TIMER

COMPUTERISED DEFROST

ANTI-FREEZE FUNCTION 8°C

WIFI READY

REMOTE CONTROL

WIRED REMOTE CONTROL

HOKKAIDO

As a result of the ongoing technological evolution of products, we reserve the right to change the technical specifications at any time and without notice. The products shown are only illustrative of the types of applications.

HOKKAIDO
Experience makes technology

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