



GENERAL CATALOGUE

residential | commercial
project VRF | heating

2021





GENERAL CATALOGUE

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.

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 this company which belongs to Termal Group.



EXPERIENCE MAKES TECHNOLOGY

COMFORT AND TECHNOLOGY

Wide range, excellent value for money, integrated logistics, quick deliveries throughout the EU, a vast assortment of spare parts and accessories that can be ordered online and are available in 24 hours.



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.

During the early 2000s, the Hokkaido brand developed a dense network of distributors and partners also abroad, in dozens of European and non-European countries.

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.

The company's great attention to customer needs has contributed to the success of the Hokkaido brand. Special care has especially been given to the logistics organisation, which has always been the point of excellence of the Termal Group: quick deliveries throughout the EU, a vast assortment of spare parts and accessories that can be ordered on-line and that are available in 24 hours, technical and training support both on-site and at the Termal Group headquarters in Bologna. All this provides customers with outstanding operational and commercial flexibility, and therefore strong competitiveness for improved management of various local markets.

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 and to the corporate wellness of employees.

Offices with large windows that connect employees with the outside and large spaces for free time after work - such as a swimming pool, gym, tennis court, football pitch, guest quarters and company restaurant - make the premises more people-friendly. Termal Group has been qualified as one of the "best places to work" in Italy, as a company that has always known how to anticipate the future.

OUR MISSION

Being constantly engaged in improving the world's climate also means taking on the commitment to use energy intelligently to protect the environment.

THE NETWORK

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

The goal of Hokkaido is to become the leader in its target market, offering a wide and versatile range of products characterised by advanced technology and high performance, at highly competitive prices.

Visit our official website www.hokkaido.it

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.

All training modules involve a theoretical part and an installation/operational part. 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.



GOAL **110%**

SUPERBONUS **110%**

As of **1 July 2020 and until 30 June 2022**, certain types of works aimed at the energy redevelopment of buildings will be able to benefit from a **Superbonus of 110% over 5 years**.

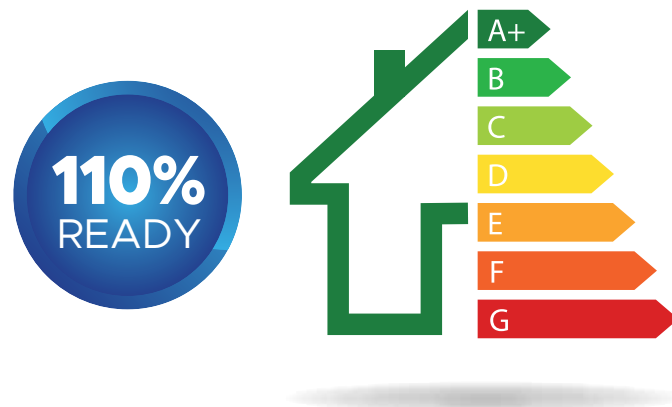
These works include:

- Works on common parts that allow buildings to move up at least 2 energy classes
- Works on single-family buildings that allow an improvement of at least 2 energy classes

To achieve these objectives, it is necessary to intervene on existing thermal insulation and winter air conditioning systems, **replacing them with heat pump systems for heating, cooling and/or the supply of domestic hot water**.

Hokkaido's extensive product range meets all design requirements to achieve high quality standards.

This applies only to the Italian market.



In order to access the **110% bonus**, it is necessary to completely replace the previous system with the new one and the works carried out must ensure, as a whole, the improvement of at least **two energy classes** of the building or, if this is not possible, the achievement of the highest energy class, to be demonstrated by means of an energy performance certificate (**APE**) issued by the qualified technician in the form of a sworn statement.

The deduction will apply to documented expenses incurred by the taxpayer between **1 July 2020 and 30 June 2022**, to be divided among those entitled in five equal annual instalments.

Article 119, paragraph 1 of the Relaunch decree sets out all the measures eligible for the 110% Ecobonus.

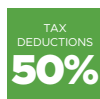
In detail, they can be listed under:

1. **Thermal insulation of vertical, horizontal and sloping opaque surfaces** affecting the building enclosure with an incidence of more than 25% of the gross dispersion surface of the building or of the building unit located inside multi-family buildings which is functionally independent and has one or more independent accesses from the outside.
2. Works on the common parts of buildings for the **replacement of existing winter air conditioning systems with centralised systems for heating, cooling and/or the supply of domestic hot water**, with condensation, with efficiency at least equal to product class A, **with heat pump**, including hybrid or geothermal systems, **also combined with the installation of photovoltaic systems** as per paragraph 5 and related storage systems as per paragraph 6, or with micro-cogeneration systems or solar collectors.
3. Works on single-family buildings for the **replacement of existing winter air conditioning systems with systems for heating, cooling and/or the supply of domestic hot water**, with condensation, with efficiency at least equal to product class A, **with heat pump**, including hybrid or geothermal systems, **also combined with the installation of photovoltaic systems** as per paragraph 5 and related storage systems as per paragraph 6, or with micro-cogeneration systems or solar collectors.

Note: parameters are subject to change due to updates in the current regulations.

This applies only to the Italian market.

TAX DEDUCTIONS 50% AND 65% THERMAL ACCOUNT 2.0



SAVINGS Building Renovation (50%)

What it is

This is a tax relief dedicated to building renovation and special maintenance activities aimed at **energy savings**, such as the installation of a heat pump. This is an IRPEF deduction which, starting from 26 June 2012, is equal to 50% of the expenses incurred.



INNOVATION Energy Redevelopment (65%)

The energy saving bonus, also known as Ecobonus, allows taxpayers to benefit from an IRPEF/IRES deduction on expenses incurred to improve the energy efficiency of their homes. In particular, **the subsidy is granted when carrying out interventions that increase the level of energy efficiency of existing buildings.**



SUSTAINABILITY Thermal Account 2.0

This is a subsidy dedicated to those who want to improve the energy efficiency of their homes. In particular, this bonus **incentivises the production of energy from renewable sources** in small-scale plants. The more renewable energy is used to heat the house, the higher the contribution received. Up to 65% of the total costs incurred can be reimbursed directly into your bank account.

Entities	Individuals		
		Apartment buildings	
		Business or farm income holders	
		Public administrations	
How do I get it?	IRPEF deduction	IRPEF or IRES deduction	Refund into your bank account
Payment time?	10 years		Within 60 days if < € 5,000 - from 2 to 5 years based on works if > € 5,000
How it is calculated	% of total costs products + labour + material + consultancy		Fixed by product characteristics
Percentage value	50%	65%	Based on product characteristics, up to 65%.
PRODUCTS	ENERGY SAVING	HIGH EFFICIENCY	RENEWABLE ENERGY
Heat pump	✓	✓	✓
air conditioner			
Air-water heat pump	✓	✓	✓
Water heater with heat pump	✓	✓	✓

Note: parameters are subject to change based on updates in the current regulations.

HEAT PUMP INCENTIVES

What incentives are available for the installation of an air or water heat pump?

Generator replaced	Generator installed	Building renovation	Energy redevelopment	Thermal Account 2.0
None	Heat pump	✓		
Boiler	Heat pump	✓	✓	✓
Heat pump	Heat pump	✓	✓	✓
Boiler + Heat pump	Heat pump	✓	✓	✓

DID YOU KNOW?

- ✓ The Building Renovation Bonus provides incentives not only for renovation but also for the **new installation** of a heat pump: use it not only in summer but also to heat your home in the mid-seasons, save energy and contribute to protecting the environment.
- ✓ **Not only owners**, but also tenants or family members can benefit from the incentives, provided that they bear the costs.

This applies only to the Italian market.



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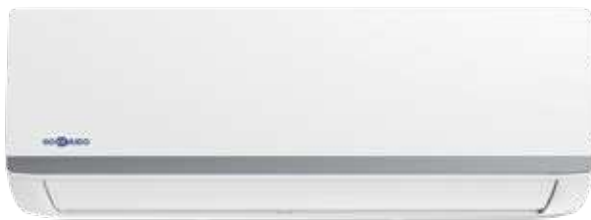
HOKKAIDO NEWS

RESIDENTIAL AND COMMERCIAL R32

V-DESIGN PLUS

- Class A+++ in cooling.
- COP (4.58); EER (4.33).
- Dark silver finish.

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RESIDENTIAL AND COMMERCIAL R32

INAZAMI

- 3D louver swing.
- Class A+++ in cooling.
- Only 22 dB(A) of sound.

PAGE 19

RESIDENTIAL AND COMMERCIAL R32 / PROJECT VRF R410A

AIR PURIFYING DEVICE FOR DUCTED SYSTEMS CLEAN AIR UV-KIT

- Eliminates viruses and bacteria by preventing them from reproducing.
- Sanitizes and purifies the air.
- Eliminates unpleasant odours.

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PROJECT VRF R410A

XRV PLUS MINI

- Broader fan speed modulations.
- The efficient fan design and the sunburst grill allow an high airflow rate with low noise.
- Slim, flexible design.
- Compact single-fan units from 8 to 16 kW and slim twin-fan units from 20 to 33.5 kW.

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PROJECT VRF R410A

XRV INDIVIDUAL

- 10 outdoor unit models.
- Single modules up to 90 kW.
- High energy performance.

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PROJECT VRF R410A

XRV PLUS HEAT RECOVERY 3-PIPE OUTDOOR UNIT

- High energy performance.
- Simultaneous heating/cooling via direct expansion units.
- Possibility of connection to a hydromodule for the production of domestic hot water and/or heating.
- Heating operation down to -25° C outside.

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PROJECT VRF R410A

HYDROMODULE FOR DHW PRODUCTION AND HEATING

- Domestic hot water production up to 80° C.
- Low temperature hydronic heating (radiant floor and/or high efficiency radiators).

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HEATING

MONOBLOC R32 AIR-WATER UNIT

- Expansion of existing range up to 30 kW with single module.
- Improved installation flexibility.
- High energy performance.

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HEATING

HP SPLIT R32

- DHW and heating up to 60° C.
- Control with Wi-Fi included and MODBUS ready.
- Energy class A+++ for all models.

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HEATING

FAN COIL HYDRONIC TERMINALS

- New models: cassette, ducted, wall, floor/ceiling (exposed and recessed).
- DC brushless fan motor.

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RESIDENTIAL AND COMMERCIAL R32



WELL-BEING FOR YOUR HOME



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

RESIDENTIAL AND COMMERCIAL R32



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MONOSPLIT

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MULTISPLIT

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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.

SIMPLIFY YOUR LIFESTYLE

HOKKAIDO WIFI SYSTEMS

HKM-WIFI | HKM-WIFI LCAC

ACTIVE LIFESTYLES

Hokkaido Wi-Fi can communicate with your air conditioning system, letting you regulate the climate in your home while you carry out your day-to-day activities. Have you set your air conditioning system to turn on when you get home from work but then you decide to go out for dinner? With the Hokkaido Wi-Fi App, you can easily change the timer or turn the air conditioning system on/off remotely, saving money.

EXPERT SAVERS

Hokkaido Wi-Fi functions help you save money and energy. Did you ever go back home and it was too hot or too cold, and you had to turn the air conditioning system on at maximum? 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. Same results, greater savings.

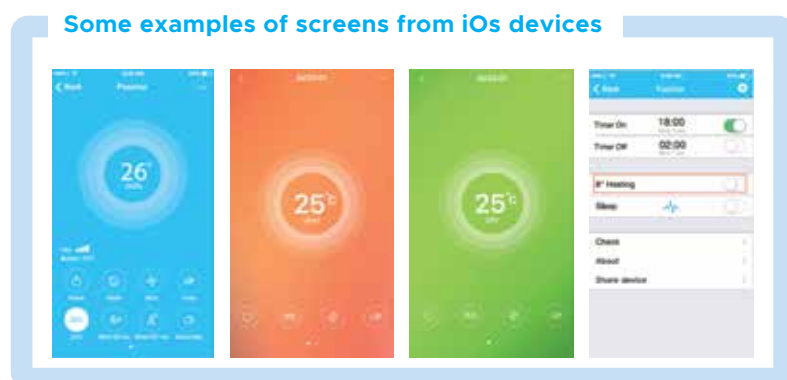
WIFI SYSTEMS FOR ALL NEEDS

Hokkaido provides two 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 LCAC:** for commercial indoor units (cassette, ducted, floor/ceiling).



Available for Android
devices from the
Google Play Store.



Available for iOS
devices from the
Apple App Store.



WHY CHOOSE A HOKKAIDO WALL-MOUNTED UNIT?

COMMON ADVANTAGES TO ALL WALL-MOUNTED MODELS



Refrigerant leak detection

Active in cooling mode only. It identifies compressor malfunctions following a refrigerant leak.



Louver position memory

When the V-DESIGN PLUS is switched back on, this function allows the horizontal deflector to maintain the same angle tilt used and stored during the last machine use.



24H timer

This function allows users to select when to turn on and/or off the air conditioner on a daily basis, either via remote (standard) or via Wi-Fi (optional).



Sleep mode

Reduces consumption at night. In cooling mode, the system increases the room temperature by 2° C within 2 hours (in heating mode the system lowers the temperature by 2° C). At the end of the 2 hours, the indoor unit runs at low speed. The system maintains the temperature for the next 5 hours.



Silence mode

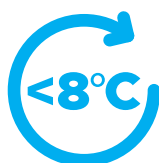
This function minimises the operating speed of the outdoor unit compressor so as to reduce noise and energy consumption to minimum.



The temperature sensor is in the remote control

The Follow-me function activates a temperature sensor in the remote control, which lets you adjust the climate according to your location. This makes it possible to adjust the air conditioner operation to different room conditions.

INAZAMI AND ACTIVE LINE PLUS MODELS



Anti-freeze function 8°C

A minimum temperature level can be guaranteed inside rooms in the event of an extended absence. When a temperature lower than 8° C is detected in the room when the anti-freeze function is activated, the system starts until this temperature is reached.

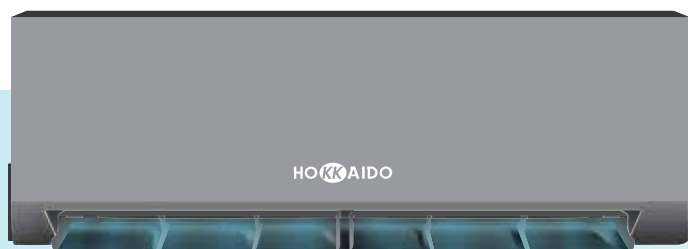


Cold current prevention

In heating mode, this function makes it possible to avoid the introduction of cold air into a room following the defrost cycles.

V-DESIGN PLUS

COMFORT AND HEALTH



Air Guardian filter

The filter generates more than 3 million **positive** and **negative ions** per cubic metre. For breathing air that is free of dust, allergens and pollutants. It cleans the air in the room and makes home a healthy place.

Light effects

The innovative V-shaped opening of the air conditioner changes its colour based on the operating mode: blue light when in cooling or red light when in heating.



Energy class
in cooling

A+++

SEER value

8.6

2.64 kW model

Energy class
in heating

A++

SCOP value

4.6

For all models

Technology for energy saving

Hokkaido V-Design Plus ranks among the highest energy efficiency classes on the market. Thanks to the Inverter technology, the air conditioner provides exceptional comfort without increasing your energy bill.

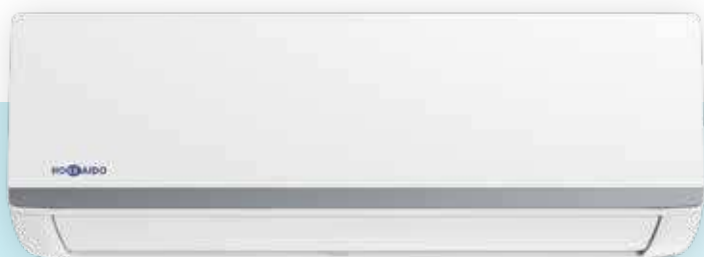
Automatic brightness adjustment

The auto-brightness feature adjusts the intensity of the display light. In full light, the display is bright and easy to read, while in the dark it switches off so as not to disturb you while you rest.



INAZAMI

EFFICIENT AND ENERGY-SAVING



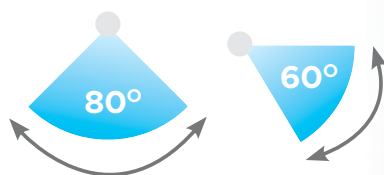
Reliability with Golden Fin treatment

The exclusive Golden Fin anti-corrosive coating on the heat exchangers can withstand salt air, rain and other corrosive elements. It also effectively prevents the growth of bacteria and improves thermal efficiency.



3D flow

The airflow direction is automatically controlled both horizontally and vertically, distributing a pleasant airwave in every corner of the room.



Energy class
in cooling

A+++

SEER value

8.8

2.64 kW model

Energy class
in heating

A++

SCOP value

4.6

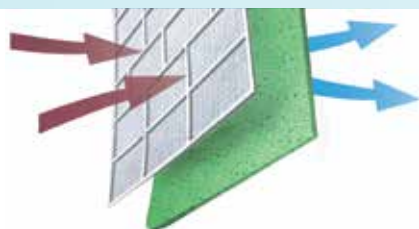
For all models

Top of the range efficiency values

The inverter technology is able to modulate the power supplied according to actual needs. This keeps the temperature constant, avoiding energy waste for greater efficiency and maximum energy saving.

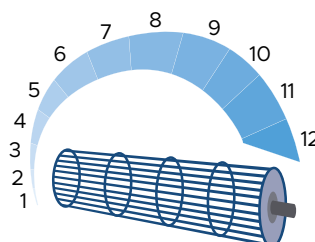
Health Filter

It consists of 2 parts, a first high-density filter which traps dust, animal hair, fungi, and a second micro-protection filter which traps fine dust, bacteria and fumes. The Health filter eliminates harmful substances and provides fresh, clean air.



12 fan speeds

Inazami features 12 speed levels, that ensure a more accurate control and a more comfortable airflow.



RESIDENTIAL AND COMMERCIAL R32 - LINE UP

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R32 MONOSPLIT

kW		2.60	3.50	5.30	7.10	8.80	10.80	12.30	14.00	16.00
V-DESIGN PLUS										
Wall			HKEMM ZAL	HKEMM ZAL						
INAZAMI										
Wall			HKEMM ZAL	HKEMM ZAL						
ACTIVE LINE										
Wall			HKEU ZAL	HKEU ZAL-1	HKEU ZAL	HKEU ZAL				
COMMERCIAL										
Console				HFIU ZAL						
Compact cassette				HTFU ZAL	HTFU ZAL					
Slim cassette 84x84						HTBI ZA	HTBI ZA	HTBI ZA	HTBI ZA	HTBI ZA
Ducted with medium static pressure				HUCI ZA	HUCI ZA	HUCI ZA	HUCI ZA	HUCI ZA	HUCI ZA	HUCI ZA
Floor/ceiling					HSFU ZAL	HSFI ZA1	HSFI ZA1	HSFI ZA1	HSFI ZA1	HSFI ZA1
Outdoor units										

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

V-DESIGN PLUS DC INVERTER

Wall HKEMM 262-352 ZAL Dark silver



SEER

SCOP

2.64 kW 8.6/A+++ 4.6/A++

3.52 kW 8.5/A+++ 4.6/A++

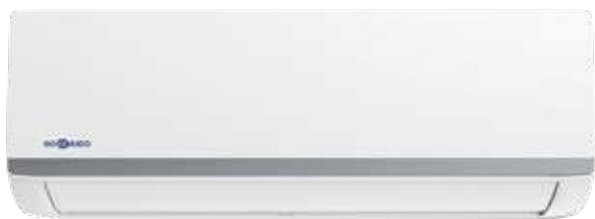
Remote control
included as standard

Indoor unit model			HKEMM 262 ZAL	HKEMM 352 ZAL
Outdoor unit model			HCNMX 262 ZA	HCNMX 352 ZA
Type			DC-Inverter heat pump	
Control (included)			Remote control	
Rated capacity (T=+35°C)	Cooling	kW	2.64 (1.03~3.22)	3.52 (1.38~4.31)
Rated absorbed power (T=+35°C)		kW	0.61 (0.09~1.14)	1.03 (0.13~1.65)
Rated energy efficiency coefficient		EER ³	4.33	3.42
Seasonal energy efficiency class		626/2011 ¹	A+++	A+++
Seasonal energy efficiency index		SEER ²	8.6	8.5
Annual energy consumption		kWh/a	107	154
Theoretical load (Pdesignc)	Heating	kW	2.60	3.50
Rated capacity (T=+7°C)		kW	2.93 (0.82~3.37)	3.82 (1.07~4.38)
Rated absorbed power (T=+7°C)		kW	0.64 (0.11~1.08)	1.03 (0.16~1.56)
Rated energy performance coefficient		COP ³	4.58	3.71
Energy efficiency class (average season)		626/2011 ¹	A++	A++
Seasonal energy efficiency class index (average season)		SCOP ²	4.6	4.6
Annual energy consumption	Cooling	kWh/a	775	775
Theoretical load (Pdesignh) @-10°C		kW	2.30	2.50
Operating limits (outside temperature)	Cooling	°C	-15~50	-15~50
	Heating	°C	-15~30	-15~30
Electrical data				
Power supply	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz	
Power cable		Type	3 x 2.5 mm ²	
Connection wires between I.U. and O.U.		no.	5	5
Absorbed current	Cooling	A	2.66 (0.40~4.70)	4.50 (0.60~7.20)
	Heating	A	2.77 (0.48~4.70)	4.50 (0.70~6.80)
Maximum current		A	10.50	10.50
Maximum absorbed power		kW	2.20	2.20
Refrigerant circuit				
Refrigerant (GWP) ⁴			R32 (675)	
Quantity refrigerant pre-load		Kg	0.62	0.62
Tons of CO ₂ equivalent		t	0.418	0.418
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø9.52(3/8")
Max splitting length		m	25	25
Max height difference I.U. /O.U.		m	10	10
Splitting length without additional load		m	5	5
Additional load		g/m	12	12
Indoor unit specifications				
Dimensions	LxDxH	mm	897x182x312	897x182x312
Net weight		Kg	10.5	10.5
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	37.5/32/24	37.5/32/24
Sound power level (I.U.)	Hi	dB(A)	51	51
Treated air volume	Hi/Mi/Lo	m ³ /h	558/478/384	558/478/384
Motor power (Output)		W	50	50
Diameter of condensate drain		mm	25	25
Specifications of outdoor units				
Dimensions	LxDxH	mm	765x303x555	765x303x555
Net weight		Kg	26.7	26.7
Sound pressure level (O.U.)		dB(A)	54	54
Sound power level (O.U.)		dB(A)	60	60
Treated air (Max)		m ³ /h	2200	2200
Motor power (Output)		W	34	34
Optional parts				
Wired remote control			NO	
Centralized control			NO	
Wi-Fi module			HKM-WIFI	

¹ EU Delegated Regulation No.626/2011 on the new labelling indicating the energy consumption of air conditioners. ² EU Regulation No.206/2012 - Value measured according to harmonised standard EN14825. ³ Value measured according to harmonised standard EN14511. 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.

INAZAMI DC INVERTER

Wall HKEMM 266-356 ZAL

22 dB(A)
Extremely quietRemote control
included as standard

SEER

SCOP

2.64 kW 8.8/A+++ 4.6/A++

3.52 kW 8.5/A+++ 4.6/A++

Indoor unit model			HKEMM 266 ZAL	HKEMM 356 ZAL
Outdoor unit model			HCNMX 266 ZA	HCNMX 356 ZA
Type			DC-Inverter heat pump	
Control (included)			Remote control	
Rated capacity (T=+35°C)	Cooling	kW	2.64 (1.03~3.22)	3.52 (1.38~4.31)
Rated absorbed power (T=+35°C)		kW	0.63 (0.08~1.10)	1.01 (0.13~1.65)
Rated energy efficiency coefficient		EER ³	4.19	3.49
Seasonal energy efficiency class		626/2011 ¹	A+++	A+++
Seasonal energy efficiency index		SEER ²	8.8	8.5
Annual energy consumption		kWh/a	107	157
Theoretical load (Pdesignc)			kW	2.60
Rated capacity (T=+7°C)	Heating	kW	2.93 (0.82~3.37)	3.81 (1.01~4.38)
Rated absorbed power (T=+7°C)		kW	0.65(0.70~0.99)	0.98(0.16~1.56)
Rated energy performance coefficient		COP ³	4.51	3.89
Energy efficiency class (average season)		626/2011 ¹	A++	A++
Seasonal energy efficiency class index (average season)		SCOP ²	4.6	4.6
Annual energy consumption		kWh/a	744	797
Theoretical load (Pdesignh) @-10°C			kW	2.40
Operating limits (outside temperature)	Cooling	°C	-15~-50	
	Heating	°C	-15~-24	
Electrical data				
Power supply	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz	
Power cable		Type	3 x 2.5 mm ²	
Connection wires between I.U. and O.U.		no.	5	5
Absorbed current	Cooling	A	2.70 (0.40~4.80)	4.40 (0.60~7.20)
	Heating	A	2.80 (0.30~4.30)	4.20 (0.70~6.80)
Maximum current		A	10.50	10.50
Maximum absorbed power		kW	2.20	2.20
Refrigerant circuit				
Refrigerant (GWP) ⁴			R32 (675)	R32 (675)
Quantity refrigerant pre-load		Kg	0.62	0.62
Tons of CO2 equivalent		t	0.419	0.419
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø9.52(3/8")
Max splitting length		m	25	25
Max height difference I.U./O.U.		m	10	10
Split length without additional charge		m	5	5
Additional load		g/m	12	12
Indoor unit specifications				
Dimensions	LxDxH	mm	835x208x295	835x208x295
Net weight		Kg	8.7	8.7
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	37/31/22	39/33/22
Sound power level (I.U.)	Hi	dB(A)	54	55
Treated air volume	Hi/Mi/Lo	m³/h	510/360/300	520/370/310
Motor power (Output)		W	45	45
Diameter of condensate drain		mm	25	25
Specifications of outdoor units				
Dimensions	LxDxH	mm	765x303x555	765x303x555
Net weight		Kg	26.7	26.7
Sound pressure level (O.U.)		dB(A)	54	54.5
Sound power level (O.U.)		dB(A)	58	61
Treated air (Max)		m³/h	2150	2200
Motor power (Output)		W	34	34
Optional parts				
Wired remote control			NO	
Centralized control			NO	
Wi-Fi module			HKM-WIFI	

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ACTIVE LINE DC INVERTER

Wall HKEU 263-533-713 ZAL - HKEU 353 ZAL-1

Remote control
included as standard25 dB(A)
Extremely quiet
(2.64~5.28 kW)

	SEER	SCOP
2.64 kW	6.3/A++	4.0/A+
3.52 kW	6.1/A++	4.0/A+
5.28 kW	7.1/A++	4.0/A+
7.03 kW	6.1/A++	4.0/A+



Indoor unit model			HKEU 263 ZAL	HKEU 353 ZAL-1	HKEU 533 ZAL	HKEU 713 ZAL
Outdoor unit model			HCNMX 263 ZA	HCNMX 353 ZA	HCNI 533 ZA	HCNI 713 ZA
Type			DC-Inverter heat pump			
Control (included)			Remote control			
Rated capacity (T=+35°C)	Cooling	kW	2.64 (0.91~3.40)	3.52 (1.11~4.16)	5.28 (1.82~6.13)	7.03 (2.08~7.95)
Rated absorbed power (T=+35°C)		kW	0.73 (0.10~1.24)	1.21 (0.13~1.58)	1.54 (0.14~2.36)	2.35 (0.16~2.96)
Rated energy efficiency coefficient		EER ³	3.62	2.91	3.43	2.99
Seasonal energy efficiency class		626/2011 ¹	A++	A++	A++	A++
Seasonal energy efficiency index		SEER ²	6.3	6.1	7.1	6.1
Annual energy consumption		kWh/a	156	221	256	412
Theoretical load (Pdesignc)	Heating	kW	2.80	3.60	5.20	7.00
Rated capacity (T=+7°C)		kW	2.93 (0.82~3.37)	3.81 (1.08~4.22)	5.57 (1.38~6.74)	7.33 (1.61~8.79)
Rated absorbed power (T=+7°C)		kW	0.73 (0.12~1.20)	1.09 (0.10~1.68)	1.48 (0.20~2.41)	2.04 (0.26~3.14)
Rated energy performance coefficient		COP ³	4.01	3.50	3.76	3.59
Energy efficiency class (average season)		626/2011 ¹	A+	A+	A+	A+
Seasonal energy efficiency class index (average season)		SCOP ²	4.0	4.0	4.0	4.0
Annual energy consumption		kWh/a	910	945	1435	1697
Theoretical load (Pdesignh) @-10°C		kW	2.60	2.70	4.10	4.80
Operating limits (outside temperature)		Cooling	-15~50			
		Heating	-15~30			
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	5
Absorbed current	Cooling	A	3.20 (0.40~5.40)	5.30 (0.50~6.90)	6.90 (0.60~10.30)	10.20 (0.70~13.30)
	Heating	A	3.20 (0.50~5.20)	4.70 (0.40~6.90)	6.40 (0.90~10.50)	10.20 (1.10~13.30)
Maximum current		A	10	10	13.5	17.5
Maximum absorbed power		kW	2.15	2.15	2.95	3.85
Refrigerant circuit						
Refrigerant (GWP) ⁴			R32 (675)	R32 (675)	R32 (675)	R32 (675)
Quantity refrigerant pre-load		Kg	0.55	0.55	1	1.6
Tons of CO2 equivalent		t	0.371	0.371	0.675	1.080
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø12.74(1/2")	ø9.52 (3/8") - ø15.88 (5/8")
Max splitting length		m	25	25	30	50
Max height difference I.U./O.U.		m	10	10	20	25
Split length without additional charge		m	5	5	5	5
Additional load		g/m	12	12	12	24
Indoor unit specifications						
Dimensions	LxDxH	mm	805x194x285	805x194x285	957x213x302	1040x220x327
Net weight		Kg	7.6	7.6	10	12.3
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	38.5/32/25	40.5/34.5/25	44/37/30/25	44.5/42/34.5/28
Sound power level (I.U.)	Hi	dB(A)	54	55	55	59
Treated air volume	Hi/Mi/Lo	m³/h	466/360/325	540/430/314	840/680/540	980/817/662
Motor power (Output)		W	40	40	36	58
Diameter of condensate drain		mm	-	-	-	-
Specifications of outdoor units						
Dimensions	LxDxH	mm	720x270x495	720x270x495	800x333x554	845x363x702
Net weight		Kg	23.2	23.2	34	51.5
Sound pressure level (O.U.)		dB(A)	55.5	56	56	59.5
Sound power level (O.U.)		dB(A)	62	63	61	67
Treated air (Max)		m³/h	1750	1800	2500	3000
Motor power (Output)		W	-	-	63	115
Optional parts						
Wired remote control			NO			
Centralized control			NO			
Wi-Fi module			HKM-WIFI			

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RESIDENTIAL AND COMMERCIAL R32

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CONSOLE

HFIU 350 ZAL



Remote control
included as standard



4 air distribution inlets for
increased system energy
efficiency

SEER

SCOP

3.52 kW **7.7/A++** **4.3/A+**

-15~50° C | -15~24° C

Operating range in cooling and heating

Anti-formaldehyde filter supplied

Double air distribution mode



Indoor unit model			HFIU 350 ZAL
Outdoor unit model			HCKI 350 ZA
Type			FULL DC-Inverter heat pump
Control (included)			Remote control
Rated capacity (T=+35° C)	Cooling	kW	3.52 (0.77~3.81)
Rated absorbed power (T=+35° C)		kW	0.92 (0.17~1.84)
Rated energy efficiency coefficient		EER ³	3.83
Seasonal energy efficiency class		626/2011 ¹	A++
Seasonal energy efficiency index		SEER ²	7.7
Annual energy consumption	Heating	kWh/a	159
Theoretical load (Pdesignc)		kW	3.5
Rated capacity (T=+7° C)		kW	3.81 (0.46~4.34)
Rated absorbed power (T=+7° C)		kW	1.02 (0.15~1.47)
Rated energy performance coefficient		COP ³	3.74
Energy efficiency class (average season)	Cooling	626/2011 ¹	A+
Seasonal energy efficiency class index (average season)		SCOP ²	4.3
Annual energy consumption		kWh/a	1042
Theoretical load (Pdesignh) @ -10° C		kW	3.2
Operating limits (outside temperature)		°C	-15~-50
	Heating	°C	-15~-24
Electrical data			
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ
Power cable		Type	3 x 2.5 mm ²
Connection wires between I.U. and O.U.		no.	4
Rated absorbed current (min~max)	Cooling	A	4.10 (1.40~8.10)
	Heating	A	4.50 (1.20~6.50)
Maximum current		A	10
Maximum absorbed power		kW	2.35
Refrigerant circuit			
Refrigerant (GWP) ⁴			R32 (675)
Quantity refrigerant pre-load		Kg	0.87
Tons of CO2 equivalent		t	0.587
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø9.52(3/8")
Max. splitting length		m	25
Max height difference I.U./O.U.		m	10
Splitting length without additional load		m	5
Additional load		g/m	12
Indoor unit specifications			
Dimensions	LxDxH	mm	700x210x600
Net weight		Kg	14.8
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	43/41.5/35
Sound power level (I.U.)	Hi	dB(A)	58
Treated air volume	Hi/Mi/Lo	m ³ /h	512/480/370
Motor power (Output)		W	67
Outside diameter of condensate drain		mm	ø16
Specifications of outdoor units			
Dimensions	LxDxH	mm	800x333x554
Net weight		Kg	34.7
Sound pressure level (O.U.)		dB(A)	55.5
Sound power level (O.U.)		dB(A)	63
Treated air (Max)		m ³ /h	2000
Motor power (Output)		W	40
Optional parts			
Wired remote control			YES
Manual centralized control			YES
Wi-Fi centralized control	Requires NIM-GRH interface		XRV Mobile BMS

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COMPACT CASSETTE

60x60

HTFU 350-530 ZAL



TFP 200 IHRS panel with 360° air diffusion



Remote control included as standard

SEER

SCOP

3.52 kW 7.8/A++ 4.6/A++

5.28 kW 6.1/A++ 4.0/A+

-15~50°C | -15~24°C

Operating range in cooling and heating

Pre-set for external air inlet

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



Indoor unit model			HTFU 350 ZAL	HTFU 530 ZAL
Outdoor unit model			HCKI 350 ZA	HCKI 530 ZA
Type			FULL DC-Inverter heat pump	
Control (included)			Remote control	
Rated capacity (T=+35°C)	Cooling	kW	3.52 (1.52~5.28)	5.28 (2.90~5.74)
Rated absorbed power (T=+35°C)		kW	0.85 (0.35~1.60)	1.63 (0.72~1.86)
Rated energy efficiency coefficient		EER ³	4.14	3.24
Seasonal energy efficiency class		626/2011 ¹	A++	A++
Seasonal energy efficiency index		SEER ²	7.8	6.1
Annual energy consumption		kWh/a	157	304
Theoretical load (Pdesignc)	Heating	kW	3.5	5.3
Rated capacity (T=+7°C)		kW	4.40 (1.03~5.57)	5.42 (2.37~6.10)
Rated absorbed power (T=+7°C)		kW	1.10 (0.31~1.80)	1.46 (0.70~1.93)
Rated energy performance coefficient		COP ³	4.00	3.71
Energy efficiency class (average season)		626/2011 ¹	A++	A+
Seasonal energy efficiency class index (average season)		SCOP ²	4.6	4.0
Annual energy consumption	Cooling	kWh/a	959	1470
Theoretical load (Pdesignh) @-10°C		kW	3.1	4.2
Operating limits (outside temperature)	Cooling	°C	-15~50	-15~50
	Heating	°C	-15~24	-15~24
Electrical data				
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ	1-220~240V-50HZ
Power cable		Type	3 x 2.5 mm ²	3 x 4.0 mm ²
Connection wires between I.U. and O.U.		no.	5	4
Rated absorbed current (min~max)	Cooling	A	3.80 (1.60~7.10)	7.20 (3.20~8.20)
	Heating	A	5.00 (1.40~7.90)	6.40 (3.10~8.50)
Maximum current		A	10	13.5
Maximum absorbed power		kW	2.35	2.95
Refrigerant circuit				
Refrigerant (GWP) ⁴			R32 (675)	R32 (675)
Quantity refrigerant pre-load		Kg	0.87	1.15
Tons of CO2 equivalent		t	0.587	0.776
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø12.74(1/2")
Max splitting length		m	25	30
Max height difference I.U./O.U.		m	10	20
Splitting length without additional load		m	5	5
Additional load		g/m	12	12
Indoor unit specifications				
Dimensions	LxDxH	mm	570x570x260	570x570x260
Net weight		Kg	16.2	16.2
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	41/36/33	42.5/39/35.5
Sound power level (I.U.)	Hi	dB(A)	51	56
Treated air volume	Hi/Mi/Lo	m ³ /h	617/504/416	720/625/540
Motor power (Output)		W	45	45
Outside diameter of condensate drain		mm	ø25	ø25
Specifications of outdoor units				
Dimensions	LxDxH	mm	800x333x554	800x333x554
Net weight		Kg	34.7	33.7
Sound pressure level (O.U.)		dB(A)	55.5	55
Sound power level (O.U.)		dB(A)	63	63
Treated air (Max)		m ³ /h	2000	2000
Motor power (Output)		W	40	57
Accessories				
Decorative panel			TFP 200 ZA	
Dimensions	LxDxH	mm	647x647x50	
Net weight		Kg	2.5	
Optional parts				
Wired remote control			YES	
Manual centralized control			YES	
Wi-Fi centralized control			HKM-WIFI LCAC	

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RESIDENTIAL AND COMMERCIAL R32

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SLIM CASSETTE 84x84

HTBI 710-1080-1400-1600 ZA



Remote control
included as standard

SEER

SCOP

7.03 kW 6.1/A++ 4.0/A+

8.79 kW 6.5/A++ 3.8/A

11.40 kW 5.9/A+ 3.9/A

10.55 kW 6.1/A++ 4.0/A+

14.07 kW 6.1/A++ 4.0/A+

15.53 kW 6.1/A++ 4.0/A+

-15~50°C | -15~24°C

Operating range in cooling and heating

Pre-set for external air inlet

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



Indoor unit model			HTBI 710 ZA	HTBI 1080 ZA	HTBI 1400 ZA	HTBI 1080 ZA	HTBI 1400 ZA	HTBI 1600 ZA
Outdoor unit model			HCKI 710 ZA	HCKI 880 ZA	HCKI 1200 ZA	HCSI 1080 ZA	HCSI 1400 ZA	HCSI 1600 ZA
Type			FULL DC-Inverter heat pump					
Control (included)			Remote control					
Rated capacity (T=+35°C)	Cooling	kW	7.03 (3.22~8.21)	8.79 (4.04~10.02)	11.40 (4.75~13.19)	10.55 (4.04~12.02)	14.07 (4.75~14.58)	15.53 (5.28~16.71)
Rated absorbed power (T=+35°C)		kW	2.19 (0.48~2.85)	2.93 (0.89~4.20)	3.77 (1.16~4.79)	3.95 (0.89~4.50)	5.13 (1.17~5.60)	5.95 (1.15~6.68)
Rated energy efficiency coefficient		EER ³	3.21	3.00	3.02	2.67	2.74	2.61
Seasonal energy efficiency class		626/2011 ¹	A++	A++	A+	A++	A++	A++
Seasonal energy efficiency index		SEER ²	6.1	6.5	5.9	6.1	6.1	6.1
Annual energy consumption		kWh/a	402	479	694	602	805	901
Theoretical load (Pdesignc)	Heating	kW	7.0	8.9	11.7	10.5	14.0	15.7
Rated capacity (T=+7°C)		kW	7.62 (2.43~8.65)	9.82 (2.94~11.48)	13.20 (3.93~15.03)	11.14 (2.95~14.14)	16.12 (3.93~16.77)	18.17 (4.40~19.34)
Rated absorbed power (T=+7°C)		kW	2.05 (0.50~2.88)	2.42 (0.72~4.15)	3.76 (0.99~4.38)	3.00 (0.72~4.75)	5.05 (0.99~5.38)	6.04 (1.02~6.45)
Rated energy performance coefficient		COP ³	3.71	4.06	3.51	3.71	3.19	3.01
Energy efficiency class (average season)		626/2011 ¹	A+	A	A	A+	A+	A+
Seasonal energy efficiency class index (average season)		SCOP ²	4.0	3.8	3.9	4.0	4.0	4.0
Annual energy consumption	Cooling	kWh/a	1890	2653	3303	2835	3920	4165
Theoretical load (Pdesignh) @-10° C		kW	5.4	7.2	9.2	8.1	11.2	11.9
Operating limits (outside temperature)		°C	-15~50					
		°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 mm ²	3 x 4 mm ²	3 x 6 mm ²	5 x 2.5 mm ²	5 x 2.5 mm ²	5 x 4 mm ²
Connection wires between I.U. and O.U.		no.	5 (2 of which shielded)					
Rated absorbed current (min~max)	Cooling	A	9.50 (2.10- 12.40)	12.90 (3.90~18.20)	16.50 (5.30~20.80)	6.60 (3.90~8.20)	8.30 (1.80~9.30)	9.80 (1.80~11.60)
	Heating	A	8.90 (2.20- 12.50)	10.70 (3.20~18.30)	16.40 (4.50~19.90)	5.00 (3.20~8.30)	8.20 (1.60~8.90)	9.90 (1.60~11.20)
Maximum current		A	13.5	16.5	22.5	10	11.2	14
Maximum absorbed power		kW	2.95	3.60	4.80	5.60	6.20	7.50
Refrigerant circuit			R32 (675)					
Refrigerant (GWP) ⁴								
Quantity refrigerant pre-load		Kg	1.5	2	2.8	2.4	2.8	2.95
Tons of CO2 equivalent		t	1.013	1.350	1.890	1.620	1.890	1.991
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø9.52 (3/8") - ø15.88 (5/8")					
Max. splitting length		m	50	50	50	65	65	65
Max height difference I.U./O.U.		m	25	25	30	30	30	30
Splitting length without additional load		m	5	5	5	5	5	5
Additional load		g/m	24	24	24	24	24	24
Indoor unit specifications								
Dimensions	LxDxH	mm	840x840x205	840x840x245	840x840x287	840x840x245	840x840x287	840x840x287
Net weight		Kg	23	27.5	29	27.5	29	29.7
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	47/43/40	51/49/46	52/50/49	51/47/41	52/50/49	53/50.5/48
Sound power level (I.U.)	Hi	dB(A)	59	62	66	62	65	65
Treated air volume	Hi/Mi/Lo	m³/h	1378/1200/1032	1775/1620/1438	1715/1568/1381	1775/1620/1438	1715/1568/1381	1970/1737/1537
Motor power (Output)		W	141	141	141	141	141	232
Outside diameter of condensate drain		mm	ø32	ø32	ø32	ø32	ø32	ø32
Specifications of outdoor units								
Dimensions	LxDxH	mm	845x363x702	946x410x810	946x410x810	946x410x810	952x415x1333	952x415x1333
Net weight		Kg	66.8	56.9	73.9	81.5	106.7	111.3
Sound pressure level (O.U.)		dB(A)	62	60.5	67	64	66	66
Sound power level (O.U.)		dB(A)	65	69	74	68	72	74
Treated air (Max)		m³/h	2700	3600	3800	4000	7500	7500
Motor power (Output)		no. x W	1 x 115	1 x 150	1 x 150	1 x 150	2 x 126	2 x 126
Accessories								
Decorative panel			TBP 710 ZA					
Dimensions	LxDxH	mm	950x950x55					
Net weight		Kg	5					
Optional parts								
Wired remote control			YES					
Manual centralized control			YES					
Wi-Fi centralized control			HKM-WIFI LCAC					

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CLEAN AIR UV-KIT

AIR PURIFYING DEVICE FOR DUCTED SYSTEMS

TMS-UV02
TMS-UV04



AN ALL-IN-ONE SOLUTION FOR ELIMINATING VIRUSES AND BACTERIA

The UV-C air purification device has the ability to modify the DNA or RNA of micro-organisms, preventing them from reproducing and thus being harmful. UV-C light is able to inactivate 99.99% of viruses.

Use in ducted systems is recommended as it does not expose humans to UV-C light and allows disinfection and air purification.

The device technology is able to degrade numerous organic compounds by oxidation.

The filter attracts and retains moisture molecules that are naturally present in the air, capturing fine dust and oxides. This process encourages faster decomposition of substances that are harmful to humans.

This product is therefore capable of:

- effectively eliminating micro-organisms that are harmful to human health, such as moulds and viruses;
- decomposing organic compounds present in the air such as benzene, formaldehyde, ammonia, ether, TVOC and other organic chemical compounds;
- eliminating unpleasant odours.

This device can be connected to ducted indoor units so that they only operate when the air conditioning system is switched on.

TMS-UV02: for models HUCU 350-530 ZAL; HUCI 710-1080 ZA.

TMS-UV04: for models HUCI 1400-1600 ZA.

RESIDENTIAL AND COMMERCIAL R32

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DUCTED WITH MEDIUM STATIC PRESSURE

HUCU 350-530 ZAL



	SEER	SCOP
3.51 kW	6.5/A++	4.0/A+
5.28 kW	6.1/A++	4.0/A+



Remote control
included as standard

-15~50° C | -15~24° C
Operating range in cooling and heating

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

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

Compatible with systems **AIRZONE**



Indoor unit model			HUCU 350 ZAL	HUCU 530 ZAL
Outdoor unit model			HCKI 350 ZA	HCKI 530 ZA
Type			FULL DC-Inverter heat pump	
Control (included)			Remote control	
Rated capacity (T=+35°C)	Cooling	kW	3.51 (1.49~4.75)	5.28 (2.55~5.69)
Rated absorbed power (T=+35°C)		kW	0.95 (0.35~1.62)	1.63 (0.71~1.90)
Rated energy efficiency coefficient		EER ³	3.69	3.24
Seasonal energy efficiency class		626/2011 ¹	A++	A++
Seasonal energy efficiency index		SEER ²	6.5	6.1
Annual energy consumption		kWh/a	188	304
Theoretical load (Pdesignc)		kW	3.5	5.3
Rated capacity (T=+7°C)	Heating	kW	4.10 (0.97~5.63)	5.86 (2.20~6.15)
Rated absorbed power (T=+7°C)		kW	1.10 (0.35~2.05)	1.58 (0.74~1.76)
Rated energy performance coefficient		COP ³	3.73	3.71
Energy efficiency class (average season)		626/2011 ¹	A+	A+
Seasonal energy efficiency class index (average season)		SCOP ²	4.0	4.0
Annual energy consumption		kWh/a	1120	1512
Theoretical load (Pdesignh) @-10° C		kW	3.2	4.3
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	
Power cable		Type	3 x 2.5 mm ²	3 x 4 mm ²
Connection wires between I.U. and O.U.		no.	5	4
Rated absorbed current (min~max)	Cooling	A	4.20 (1.70~7.20)	7.20 (3.20~8.30)
	Heating	A	5.00 (1.70~9.00)	7.00 (3.30~7.70)
Maximum current		A	10	13.5
Maximum absorbed power		kW	2.35	2.95
Refrigerant circuit			R32 (675)	
Refrigerant (GWP) ⁴				
Quantity refrigerant pre-load		Kg	0.87	1.15
Tons of CO2 equivalent		t	0.587	0.776
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø12.74(1/2")
Max. splitting length		m	25	30
Max height difference I.U./O.U.		m	10	20
Splitting length without additional load		m	5	5
Additional load		g/m	12	12
Indoor unit specifications				
Dimensions	LxDxH	mm	700x450x200	880x674x210
Net weight		Kg	18	24.3
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	35/30.5/26	41.5/38/33
Sound power level (I.U.)	Hi	dB(A)	56	59
Treated air volume	Hi/Mi/Lo	m³/h	600/480/300	880/650/350
Fan static pressure	Std/Max	Pa	25/60	25/100
Motor power (Output)		W	130	90
Outside diameter of condensate drain		mm	ø25	ø25
Specifications of outdoor units				
Dimensions	LxDxH	mm	800x333x554	800x333x554
Net weight		Kg	34.7	33.7
Sound pressure level (O.U.)		dB(A)	55.5	55
Sound power level (O.U.)		dB(A)	63	63
Treated air (Max)		m³/h	2000	2000
Motor power (Output)		no. x W	1 x 40	1 x 57
Optional parts				
Wired remote control			YES	
Manual centralized control			YES	
Wi-Fi centralized control			HKM-WIFI LCAC	

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DUCTED WITH MEDIUM STATIC PRESSURE

HUCI 710-1080-1400-1600 ZA



Remote control
included as standard

	SEER	SCOP
7.03 kW	6.1/A++	4.0/A+
8.79 kW	6.1/A++	4.0/A+
12.31 kW	6.1/A++	4.0/A+
10.55 kW	6.1/A++	4.0/A+
14.07 kW	6.1/A++	4.0/A+
15.24 kW	6.1/A++	4.0/A+

-15~50° C | -15~24° C
Operating range in cooling and heating

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

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

Compatible with systems **AIRZONE**



Indoor unit model			HUCI 710 ZA	HUCI 1080 ZA	HUCI 1400 ZA	HUCI 1080 ZA	HUCI 1400 ZA	HUCI 1600 ZA
Outdoor unit model			HCKI 710 ZA	HCKI 880 ZA	HCKI 1200 ZA	HCSI 1080 ZA	HCSI 1400 ZA	HCSI 1600 ZA
Type			FULL DC-Inverter heat pump					
Control (included)			Remote control					
Rated capacity (T=+35°C)	Cooling	kW	7.03 (3.28~8.16)	8.79 (2.23~9.82)	12.31 (2.58~12.31)	10.55 (4.04~12.02)	14.07 (4.26~15.19)	15.24 (5.86~17.29)
Rated absorbed power (T=+35°C)		kW	2.19 (0.48~2.85)	2.60 (0.19~3.35)	3.65 (0.23~4.35)	4.10 (0.89~4.98)	5.15 (1.17~5.70)	5.42 (1.27~6.65)
Rated energy efficiency coefficient		EER ³	3.21	3.38	3.37	2.57	2.73	2.81
Seasonal energy efficiency class		626/2011 ¹	A++	A++	A++	A++	A++	A++
Seasonal energy efficiency index		SEER ²	6.1	6.1	6.1	6.1	6.1	6.1
Annual energy consumption		kWh/a	402	505	711	602	808	878
Theoretical load (Pdesignc)	Heating	kW	7.0	8.8	12.4	10.5	14.0	15.3
Rated capacity (T=+7°C)		kW	7.62 (2.72~8.72)	9.38 (2.70~11.14)	13.48 (2.05~14.27)	11.14 (2.81~13.19)	16.12 (3.7~18.02)	18.17 (4.69~20.52)
Rated absorbed power (T=+7°C)		kW	2.05 (0.50~2.88)	2.30 (0.43~2.90)	3.68 (0.34~4.29)	3.00 (0.78~4.67)	4.28 (0.95~5.82)	5.33 (1.04~6.03)
Rated energy performance coefficient		COP ³	3.72	4.08	3.66	3.71	3.77	3.41
Energy efficiency class (average season)		626/2011 ¹	A+	A+	A+	A+	A+	A+
Seasonal energy efficiency class index (average season)		SCOP ²	4.0	4.0	4.0	4.0	4.0	4.0
Annual energy consumption	Cooling	kWh/a	1911	2800	3360	2968	4263	4375
Theoretical load (Pdesignh) @ -10° C		kW	5.4	8.0	9.6	8.4	12.1	12.5
Operating limits (outside temperature)	Heating	°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 mm ²	3 x 4 mm ²	3 x 6 mm ²	5 x 2.5 mm ²	5 x 2.5 mm ²	5 x 4 mm ²
Connection wires between I.U. and O.U.		no.	5 (2 of which shielded)					
Rated absorbed current (min~max)	Cooling	A	9.50 (2.10~12.40)	11.80 (2.00~15.50)	16.00 (1.50~19.10)	6.50 (1.40~8.20)	8.30 (1.80~9.40)	8.90 (2.00~11.60)
	Heating	A	8.90 (2.20~12.50)	10.60 (3.00~13.50)	16.20 (1.90~18.80)	4.70 (1.30~7.40)	6.80 (1.50~9.20)	8.80 (1.60~10.50)
Maximum current		A	13.5	16.5	22.5	10	11.2	14
Maximum absorbed power		kW	2.95	3.60	4.80	5.60	6.20	7.50
Refrigerant circuit								
Refrigerant (GWP) ⁴			R32 (675)					
Quantity refrigerant pre-load		Kg	1.5	2	2.8	2.4	2.8	2.95
Tons of CO2 equivalent		t	1.013	1.350	1.890	1.620	1.890	1.991
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø9.52(3/8") - ø15.88(5/8")					
Max. splitting length		m	50	50	50	65	65	65
Max height difference I.U./O.U.		m	25	25	30	30	30	30
Splitting length without additional load		m	5	5	5	5	5	5
Additional load		g/m	24	24	24	24	24	24
Indoor unit specifications								
Dimensions	LxDxH	mm	1100x774x249	1360x774x249	1200x874x300	1360x774x249	1200x874x300	1200x874x300
Net weight		Kg	31.5	40.5	47.6	40.5	47.6	47.6
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	42/40/38	47/43/40	51/50/48	47/43/40	51/50/48	54/52/51
Sound power level (I.U.)	Hi	dB(A)	62	63	68	63	68	71
Treated air volume	Hi/Mi/Lo	m ³ /h	1248/1054/839	1400/1150/750	2400/2040/1680	1400/1150/750	2400/2040/1680	2600/2210/1820
Fan static pressure	Std/Max	Pa	25/160	37/160	50/160	37/160	50/160	50/160
Motor power (Output)		W	90	250	560	250	560	560
Outside diameter of condensate drain		mm	ø25	ø25	ø25	ø25	ø25	ø25
Specifications of outdoor units								
Dimensions	LxDxH	mm	845x363x702	946x410x810	946x410x810	946x410x810	952x415x1333	952x415x1333
Net weight		Kg	66.8	56.9	73.9	81.5	106.7	111.3
Sound pressure level (O.U.)		dB(A)	62	60.5	67	64	66	66
Sound power level (O.U.)		dB(A)	65	69	74	68	72	74
Treated air (Max)		m ³ /h	2700	3600	3800	4000	7500	7500
Motor power (Output)		no. x W	1 x 115	1 x 150	1 x 150	1 x 150	2 x 126	2 x 126
Optional parts								
Wired remote control			YES					
Manual centralized control			YES					
Wi-Fi centralized control			HKM-WIFI LCAC					

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RESIDENTIAL AND COMMERCIAL R32

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FLOOR/CEILING

HSFU 530 ZAL - HSF1 710-1080-1400-1600 ZA1



(optional)



Remote control
included as standard

SEER

SCOP

5.28 kW 6.1/A++ 4.0/A+

7.03 kW 6.1/A++ 4.0/A+

8.79 kW 7.0/A++ 3.8/A

11.70 kW 7.0/A++ 3.8/A

10.55 kW 6.1/A++ 4.0/A+

14.07 kW 6.1/A++ 4.0/A+

15.83 kW 6.1/A++ 4.0/A+

-15~50° C | -15~24° C
Operating range in cooling and
heating

Excellent installation flexibility



Indoor unit model			HSFU 530 ZAL	HSF1 710 ZA1	HSF1 1080 ZA1	HSF1 1400 ZA1	HSF1 1080 ZA1	HSF1 1400 ZA1	HSF1 1600 ZA1
Outdoor unit model			HCKI 530 ZA	HCKI 710 ZA	HCKI 880 ZA	HCKI 1200 ZA	HCSI 1080 ZA	HCSI 1400 ZA	HCSI 1600 ZA
Type			FULL DC-Inverter heat pump						
Control (included)			Remote control						
Rated capacity (T=+35°C)	Cooling	kW	5.28 (2.71~5.57)	7.03 (3.22~8.29)	8.79 (4.04~10.02)	11.70 (4.96~13.11)	10.55 (3.93~12.02)	14.07 (4.96~15.11)	15.83 (5.28~17.00)
Rated absorbed power (T=+35°C)		kW	1.63 (0.67~1.85)	2.19 (0.48~2.93)	2.65 (0.89~4.00)	3.73 (1.16~4.72)	3.75 (0.87~4.50)	5.50 (1.16~6.00)	6.06 (1.23~6.50)
Rated energy efficiency coefficient		EER ³	3.24	3.21	3.32	3.14	2.81	2.67	2.61
Seasonal energy efficiency class		626/2011 ¹	A++	A++	A++	A++	A++	A++	A++
Seasonal energy efficiency index		SEER ²	6.1	6.1	7.0	7.0	6.1	6.1	6.1
Annual energy consumption		kWh/a	304	402	440	590	602	803	916
Theoretical load (Pdesignc)	kW	5.3	7.0	8.8	11.8	10.5	14.0	15.9	
Rated capacity (T=+7°C)	Heating	kW	5.57 (2.42~6.30)	7.62 (2.72~8.65)	9.82 (2.94~11.48)	12.90 (3.81~14.96)	11.14 (2.81~13.95)	16.12 (3.81~18.07)	18.17 (4.4~19.64)
Rated absorbed power (T=+7°C)		kW	1.50 (0.54~1.64)	2.05 (0.50~2.85)	2.37 (0.72~4.05)	3.82 (1.03~4.20)	3.00 (0.73~4.89)	5.05 (1.03~6.20)	6.04 (1.02~6.55)
Rated energy performance coefficient		COP ³	3.71	3.72	4.14	3.38	3.71	3.19	3.01
Energy efficiency class (average season)		626/2011 ¹	A+	A+	A	A	A+	A+	A+
Seasonal energy efficiency class index (average season)		SCOP ²	4.0	4.0	3.8	3.8	4.0	4.0	4.0
Annual energy consumption		kWh/a	1435	1890	2689	3398	3150	4025	4165
Theoretical load (Pdesignh) @-10° C	kW	4.1	5.4	7.3	9.3	9.0	11.5	11.9	
Operating limits (outside temperature)	Cooling	°C	-15~50	-15~50	-15~50	-15~50	-15~50	-15~50	-15~50
	Heating	°C	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24	-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 mm ²	3 x 4 mm ²	3 x 4 mm ²	3 x 6 mm ²	5 x 2.5 mm ²	5 x 2.5 mm ²	5 x 4 mm ²
Connection wires between I.U. and O.U.		no.	4	5 (2 of which shielded)					
Rated absorbed current (min~max)	Cooling	A	7.20 (3.20~8.20)	10.00 (2.10~13.10)	11.80 (3.90~17.40)	16.30 (5.60~20.50)	5.80 (1.20~8.20)	9.10 (1.80~9.80)	10.50 (1.90~11.30)
	Heating	A	6.60 (2.70~7.30)	9.50 (2.20~12.70)	10.60 (3.20~17.40)	16.70 (5.60~18.30)	4.800 (1.20~8.30)	8.10 (1.60~10.30)	9.90 (1.60~11.50)
Maximum current		A	13.5	13.5	16.5	22.5	10	11.2	14
Maximum absorbed power		kW	2.95	2.95	3.60	4.80	5.60	6.20	7.50
Refrigerant circuit									
Refrigerant (GWP) ⁴			R32 (675)						
Quantity refrigerant pre-load		Kg	1.15	1.5	2	2.8	2.4	2.8	2.95
Tons of CO2 equivalent		t	0.776	1.013	1.350	1.890	1.620	1.890	1.991
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	50	50	65	65	65
Max height difference I.U./O.U.		m	20	25	25	30	30	30	30
Splitting length without additional load		m	5	5	5	5	5	5	5
Additional load		g/m	12	24	24	24	24	24	24
Indoor unit specifications									
Dimensions	LxDxH	mm	1068x675x235	1068x675x235	1650x675x235	1650x675x235	1650x675x235	1650x675x235	1650x675x235
Net weight		Kg	26.8	28	39	41.2	39	41.2	41.4
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	41.5/38.5/34.5	50/46/41	51/47/42	54/50/46	51/47/42	54/50/46	54/47/42
Sound power level (I.U.)	Hi	dB(A)	58	61	62	67	59	66	69
Treated air volume	Hi/Mi/Lo	m³/h	880/760/650	1208/1066/853	2160/1844/1431	2329/1930/1417	2160/1844/1431	2329/1930/1417	2454/1834/1426
Motor power (Output)		no. x W	1 x 96	1 x 100	2 x 96	2 x 96	2 x 96	2 x 96	2 x 90
Outside diameter of condensate drain		mm	ø25	ø25	ø25	ø25	ø25	ø25	ø25
Specifications of outdoor units									
Dimensions	LxDxH	mm	800x333x554	845x363x702	946x410x810	946x410x810	946x410x810	952x415x1333	952x415x1333
Net weight		Kg	33.7	66.8	56.9	73.9	81.5	106.7	111.3
Sound pressure level (O.U.)		dB(A)	55	62	60.5	67	64	66	66
Sound power level (O.U.)		dB(A)	63	65	69	74	68	72	74
Treated air (Max)		m³/h	2000	2700	3600	3800	4000	7500	7500
Motor power (Output)		no. x W	1 x 57	1 x 115	1 x 150	1 x 150	1 x 150	2 x 126	2 x 126
Optional parts									
Wired remote control			YES						
Manual centralized control			YES						
Wi-Fi centralized control			HKM-WIFI LCAC						

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TWIN COMBINATIONS



Indoor unit model			2 x HTBI 710 ZA	2 x HTBI 1080 ZA
Outdoor unit model			HCSI 1400 ZA	HCSI 1600 ZA
Type			FULL DC-Inverter heat pump	
Control (included)			Remote control	
Rated capacity (T=+35°C)	Cooling	kW	14.06 (4.68~14.60)	15.53 (5.28~16.71)
Rated absorbed power (T=+35°C)		kW	5.13 (1.17~5.60)	5.95 (1.15~6.68)
Rated energy efficiency coefficient		EER ³	2.74	2.61
Seasonal energy efficiency class		626/2011 ¹	A++	A++
Seasonal energy efficiency index		SEER ²	6.1	6.1
Annual energy consumption		kWh/a	803	901
Theoretical load (Pdesignc)	Heating	kW	14.0	15.7
Rated capacity (T=+7°C)		kW	16.12 (3.93~16.76)	18.17 (4.40~19.34)
Rated absorbed power (T=+7°C)		kW	5.05 (0.99~5.38)	6.04 (1.02~6.45)
Rated energy performance coefficient		COP ³	3.19	3.01
Energy efficiency class (average season)		626/2011 ¹	A+	A+
Seasonal energy efficiency class index (average season)		SCOP ²	4.0	4.0
Annual energy consumption	Cooling	kWh/a	3920	4165
Theoretical load (Pdesignh) @-10°C		kW	11.2	11.9
Operating limits (outside temperature)	Heating	°C	-15~50	-15~50
	Heating	°C	-15~24	-15~24
Electrical data				
Power supply	Indoor unit	Ph-V-Hz	1-220~240V-50HZ	1-220~240V-50HZ
	Outdoor unit		3-380~415V-50HZ	3-380~415V-50HZ
Power cable		Type	5 x 2.5 mm ²	5 x 4 mm ²
Connection wires between each I.U. and O.U.		no.	5 (2 of which shielded)	5 (2 of which shielded)
Rated absorbed current (min~max)	Cooling	A	8.30 (1.80~9.30)	9.80 (1.80~11.00)
	Heating	A	8.20 (1.60~8.80)	9.90 (1.60~10.60)
Maximum current		A	11.2	14.0
Maximum absorbed power		kW	6.20	7.50
Refrigerant circuit				
Refrigerant (GWP) ⁴			R32 (675)	R32 (675)
Quantity refrigerant pre-load		Kg	2.8	2.95
Tons of CO2 equivalent		t	1.890	1.991
Diameter of refrigerant piping on liquid/gas	Indoor unit	mm (inches)	ø9.52 (3/8") - ø15.88 (5/8")	ø9.52 (3/8") - ø15.88 (5/8")
	Outdoor unit			
Max. splitting length		m	65	65
Max height difference I.U./O.U.		m	30	30
Splitting length without additional load		m	5	5
Additional load		g/m	24	24



Indoor unit model			2 x HUCI 710 ZA	2 x HUCI 1080 ZA
Outdoor unit model			HCSI 1400 ZA	HCSI 1600 ZA
Type			FULL DC-Inverter heat pump	
Control (included)			Remote control	
Rated capacity (T=+35°C)	Cooling	kW	14.07 (4.28~15.24)	15.24 (5.86~17.29)
Rated absorbed power (T=+35°C)		kW	5.15 (1.17~5.70)	5.42 (1.27~6.65)
Rated energy efficiency coefficient		EER ³	2.73	2.81
Seasonal energy efficiency class		626/2011 ¹	A++	A++
Seasonal energy efficiency index		SEER ²	6.1	6.1
Annual energy consumption		kWh/a	803	884
Theoretical load (Pdesignc)	Heating	kW	14.0	15.4
Rated capacity (T=+7°C)		kW	16.12 (3.69~18.02)	18.17 (4.69~20.52)
Rated absorbed power (T=+7°C)		kW	4.28 (1.05~6.12)	5.33 (1.04~6.03)
Rated energy performance coefficient		COP ³	3.77	3.41
Energy efficiency class (average season)		626/2011 ¹	A+	A+
Seasonal energy efficiency class index (average season)		SCOP ²	4.0	4.0
Annual energy consumption	Cooling	kWh/a	4200	4375
Theoretical load (Pdesignh) @-10°C		kW	12.0	12.5
Operating limits (outside temperature)	Heating	°C	-15~50	-15~50
	Heating	°C	-15~24	-15~24
Electrical data				
Power supply	Indoor unit	Ph-V-Hz	1-220~240V-50HZ	1-220~240V-50HZ
	Outdoor unit		3-380~415V-50HZ	3-380~415V-50HZ
Power cable		Type	5 x 2.5 mm ²	5 x 4 mm ²
Connection wires between each I.U. and O.U.		no.	5 (2 of which shielded)	5 (2 of which shielded)
Rated absorbed current (min~max)	Cooling	A	8.30 (1.8~9.4)	8.90 (2.0~11.0)
	Heating	A	6.80 (1.7~10.2)	8.80 (1.6~9.9)
Maximum current		A	11.2	14.0
Maximum absorbed power		kW	6.20	7.50
Refrigerant circuit				
Refrigerant (GWP) ⁴			R32 (675)	R32 (675)
Quantity refrigerant pre-load		Kg	2.8	2.95
Tons of CO2 equivalent		t	1.890	1.991
Diameter of refrigerant piping on liquid/gas	Indoor unit	mm (inches)	ø9.52 (3/8") - ø15.88(5/8")	ø9.52(3/8") - ø15.88(5/8")
	Outdoor unit			
Max. splitting length		m	65	65
Max height difference I.U./O.U.		m	30	30
Splitting length without additional load		m	5	5
Additional load		g/m	24	24

TWIN COMBINATIONS



Indoor unit model			2 x HSFI 710 ZA1	2 x HSFI 1080 ZA1
Outdoor unit model			HCSI 1400 ZA	HCSI 1600 ZA
Type			FULL DC-Inverter heat pump	
Control (included)			Remote control	
Rated capacity (T=+35°C)	Cooling	kW	14.07 (4.96~15.12)	15.83 (5.28~17.00)
Rated absorbed power (T=+35°C)		kW	5.50 (1.16~5.70)	6.06 (1.23~6.30)
Rated energy efficiency coefficient		EER ³	2.56	2.61
Seasonal energy efficiency class		626/2011 ¹	A++	A++
Seasonal energy efficiency index		SEER ²	6.1	6.1
Annual energy consumption		kWh/a	815	912
Theoretical load (Pdesignc)	Heating	kW	14.2	15.9
Rated capacity (T=+7°C)		kW	16.12 (3.81~18.05)	18.17 (4.40~19.64)
Rated absorbed power (T=+7°C)		kW	5.05 (1.03~6.20)	6.04 (1.02~6.55)
Rated energy performance coefficient		COP ³	3.19	3.01
Energy efficiency class (average season)		626/2011 ¹	A+	A+
Seasonal energy efficiency class index (average season)		SCOP ²	4.0	4.0
Annual energy consumption	Cooling	kWh/a	3885	4165
Theoretical load (Pdesignh) @-10° C		kW	11.1	11.9
Operating limits (outside temperature)	Heating	°C	-15~50	-15~50
	Heating	°C	-15~24	-15~24
Electrical data				
Power supply	Indoor unit	Ph-V-Hz	1-220~240V-50HZ	1-220~240V-50HZ
	Outdoor unit		3-380~415V-50HZ	3-380~415V-50HZ
Power cable		Type	5 x 2.5 mm ²	5 x 4 mm ²
Connection wires between each I.U. and O.U.		no.	5 (2 of which shielded)	5 (2 of which shielded)
Rated absorbed current (min~max)	Cooling	A	9.10 (1.80~9.30)	10.50 (1.90~10.30)
	Heating	A	8.10 (1.60~10.30)	9.90 (1.60~10.80)
Maximum current		A	11.2	14.0
Maximum absorbed power		kW	6.20	7.50
Refrigerant circuit				
Refrigerant (GWP) ⁴			R32 (675)	R32 (675)
Quantity refrigerant pre-load		Kg	2.8	2.95
Tons of CO2 equivalent		t	1.890	1.991
Diameter of refrigerant piping on liquid/gas	Indoor unit	mm (inches)	ø9.52(3/8") - ø15.88(5/8")	ø9.52(3/8") - ø15.88(5/8")
	Outdoor unit			
Max. splitting length		m	65	65
Max height difference I.U./O.U.		m	30	30
Splitting length without additional load		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 EU Delegated Regulation No.626/2011 on the new labelling indicating the energy consumption of air conditioners. 2 EU Regulation No.206/2012 - Value measured according to harmonised standard EN14825. 3 Value measured according to harmonised standard EN14511. 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 was released into the atmosphere, then the impact on global warming would be 675 times higher than 1 kg of CO2, for a period of 100 years. In no case should the user try to intervene on the refrigerant circuit or to 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 of 14.00 and 16.00 kW.

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R32 MULTISPLIT

Outdoor unit	EER*	COP*	SEER*	SCOP*
HCKU 470 Z2	3.23	3.71	5.6 / A+	3.8 / A
HCKU 530 Z2	3.24	4.01	6.1 / A++	3.8 / A
HCKU 600 Z3	3.24	3.71	6.1 / A++	4.0 / A+
HCKU 760 Z3	3.23	3.91	6.1 / A++	4.0 / A+
HCKU 810 Z4	3.23	4.00	6.1 / A++	3.8 / A
HCKU 1060 Z4	3.23	3.93	6.2 / A++	3.8 / A
HCKU 1200 Z5	2.89	3.97	6.1 / A++	3.5 / A

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

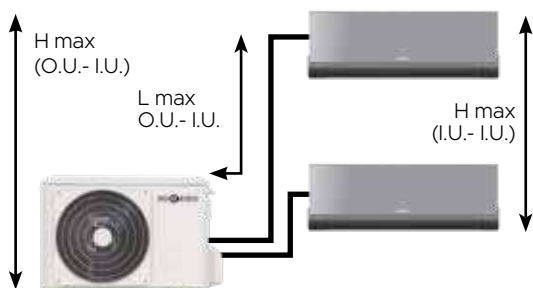
OPERATING RANGE

-15° C / 50° C
in cooling

-15° C / 24° C
in cooling

INSTALLATION FLEXIBILITY

Extensive splitting lengths.



HCKU 470-530 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 810-1060 Z4 | HCKU 1200 Z5

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

HCKU 600-760 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

HIGHLY COMPACT

Highly compact and easy to install.

HCKU 470-530 Z2



HCKU 600-760 Z3



HCKU 810-1060 Z4 | HCKU 1200 Z5



RESIDENTIAL AND COMMERCIAL R32 - LINE UP

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R32 MULTISPLIT

kW		4.10	5.28	6.15	7.91	8.21	10.55	12.31
Number of connectable I.U.		2	2	3	3	4	4	5
								
		HCKU 470 Z2	HCKU 530 Z2	HCKU 600 Z3	HCKU 760 Z3	HCKU 810 Z4	HCKU 1060 Z4	HCKU 1200 Z5
		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	•	•	•	•	•	•	•
	HKEU 713 ZAL						•	•
	HFIU 260 ZL	•	•	•	•	•	•	•
	HFIU 350 ZAL	•	•	•	•	•	•	•
	HTFU 260 ZL	•	•	•	•	•	•	•
	HTFU 350 ZAL	•	•	•	•	•	•	•
	HTFU 530 ZAL	•	•	•	•	•	•	•
	HUCU 260 ZL	•	•	•	•	•	•	•
	HUCU 350 ZAL	•	•	•	•	•	•	•
	HUCU 530 ZAL	•	•	•	•	•	•	•
	HSFU 530 ZAL	•	•	•	•	•	•	•

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

RESIDENTIAL AND COMMERCIAL R32

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R32 MULTISPLIT

Outdoor unit - Up to 5 connectable indoor units



HCKU 470 Z2
HCKU 530 Z2



HCKU 600 Z3
HCKU 760 Z3



HCKU 810 Z4
HCKU 1060 Z4



HCKU 1200 Z5

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

Broad operating range in heating mode up 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 470 Z2	HCKU 530 Z2	HCKU 600 Z3	HCKU 760 Z3	HCKU 810 Z4	HCKU 1060 Z4	HCKU 1200 Z5
Type			Outdoor DC-Inverter heat pump unit						
Connectable indoor units (min - max)			no.	1 - 2	1 - 2	2 - 3	2 - 3	2 - 4	2 - 5
Rated capacity (T=+35°C)			kW	4.10 (1.82~4.81)	5.28 (2.05~6.86)	6.15 (1.94~6.86)	7.91 (2.96~8.50)	8.21 (2.05~9.85)	10.55 (2.05~12.66)
Rated absorbed power (T=+35°C)			kW	1.27 (0.17~1.71)	1.63 (0.65~2.00)	1.90 (0.18~2.24)	2.45 (0.24~3.22)	2.54 (0.89~3.18)	3.27 (1.14~4.09)
Rated energy efficiency coefficient			EER ³	3.23	3.24	3.24	3.23	3.23	2.89
Seasonal energy efficiency class			626/2011 ¹	A+	A++	A++	A++	A++	A++
Seasonal energy efficiency index			SEER ²	5.6	6.1	6.1	6.1	6.2	6.1
Annual energy consumption			kWh/a	256	309	350	453	471	598
Theoretical load (Pdesignc)			kW	4.1	5.3	6.1	7.9	8.2	10.6
Rated capacity (T=+7°C)			kW	4.40 (1.53~5.10)	5.57 (2.34~7.24)	6.6 (1.73~7.25)	8.21 (2.04~9.38)	8.79 (2.34~10.55)	10.84 (2.34~13.01)
Rated absorbed power (T=+7°C)			kW	1.185 (0.27~1.71)	1.39 (0.60~1.67)	1.78 (0.33~1.92)	2.10 (0.31~2.89)	2.20 (0.77~2.75)	2.76 (0.97~3.45)
Rated energy performance coefficient			COP ³	3.71	4.01	3.71	3.91	4.00	3.93
Energy efficiency class (average season)			626/2011 ¹	A	A	A+	A+	A	A
Seasonal energy efficiency class index (average season)			SCOP ²	3.8	3.8	4.0	4.0	3.8	3.5
Annual energy consumption			kWh/a	1363	1768	1960	1960	2395	3316
Theoretical load (Pdesignh) @-10° C			kW	3.7	4.8	5.6	5.6	6.5	9.0
Operating limits (outside temperature)			°C	-15~50	-15~50	-15~50	-15~50	-15~50	-15~50
			°C	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24
Electrical data									
Power supply			Ph-V-Hz	1-220~240V-50HZ	1-220~240V-50HZ	1-220~240V-50HZ	1-220~240V-50HZ	1-220~240V-50HZ	1-220~240V-50HZ
Power cable			Type	3 x 2.5 mm ²	3 x 2.5 mm ²	3 x 4 mm ²	3 x 4 mm ²	3 x 4 mm ²	3 x 6 mm ²
Connection wires between each I.U. and O.U.			no.	4	4	4	4	4	4
Rated absorbed current (min~max)			Cooling	A	5.50 (0.70~9.30)	7.10 (2.80~9.20)	9.00 (1.10~9.90)	13.70 (2.20~14.30)	11.30 (3.90~14.10)
			Heating	A	5.20 (1.20~9.40)	6.10 (2.60~7.70)	8.50 (1.90~8.50)	12.50 (2.50~12.90)	9.80 (3.40~12.20)
Maximum current			A	11.5	13	15.5	17.5	21.5	22
Maximum absorbed power			kW	2.65	2.85	3.30	3.60	4.15	4.60
Refrigerant circuit									
Refrigerant (GWP) ⁴				R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
Quantity refrigerant pre-load			Kg	1.10	1.25	1.4	1.72	2.1	2.4
Tons of CO2 equivalent			t	0.743	0.844	0.945	1.161	1.418	1.620
Diameter of refrigerant piping on liquid/gas			mm (inches)	2 x ø6.35(1/4")/ 2 x ø9.52(3/8")	2 x ø6.35(1/4")/ 2 x ø9.52(3/8")	3 x ø6.35(1/4")/ 3 x ø9.52(3/8")	3 x ø6.35(1/4")/ 3 x ø9.52(3/8")	4 x ø6.35(1/4")/ 3 x ø9.52(3/8") + 1 x ø12.74(1/2")	4 x ø6.35(1/4")/ 3 x ø9.52(3/8") + 1 x ø12.74(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	37.5
Additional load			g/m	12	12	12	12	12	12
Product specifications									
Dimensions			LxDxH	mm	800x333x554	800x333x554	845x363x702	845x363x702	946x410x810
Net weight			Kg	31.6	35.5	46.8	51.1	62.1	68.8
Sound pressure level			dB(A)	57	56	57.5	54	61.5	63
Sound power level			dB(A)	64	65	65	67	67	69
Treated air (Max)			m ³ /h	2200	2200	3000	2700	3800	4000
Motor power (Output)			W	34	34	115	115	150	150

Energy efficiency values refer to the following combinations: HCKU 470 Z2 + 2 x HKEU 203 ZL - HCKU 530 Z2 + 2 x HKEU 263 ZAL - HCKU 600 Z3 + 3 x HKEU 203 ZL - HCKU 760 Z3 + 3 x HKEU 263 ZAL - HCKU 810 Z4 + 4 x HKEU 203 ZL - HCKU 1060 Z4 + 4 x HKEU 263 ZAL - HCKU 1200 Z5 + 5 x HKEU 263 ZAL.

1 EU Delegated Regulation No.626/2011 on the new labelling indicating the energy consumption of air conditioners. 2 EU Regulation No.206/2012 - Value measured according to harmonised standard EN14825. 3 Value measured according to harmonised standard EN14511. 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



Remote control included as standard

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

Model			HKEMM 262 ZAL	HKEMM 352 ZAL
Type			Indoor wall unit	
Control (included)			Remote control	
Rated capacity	Cooling	kW	2.64	3.52
	Heating	kW	2.93	3.82
Electrical data				
Power supply		Ph-V-Hz	-	-
Connection wires between I.U. and O.U.		no.	4	4
Refrigerant circuit				
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø9.52(3/8")
Product specifications				
Dimensions		LxDxH mm	897x182x312	897x182x312
Net weight		Kg	10.5	10.5
Sound pressure level	Hi/Mi/Lo	dB(A)	37.5/32/24	37.5/32/24
	Hi	dB(A)	51	51
Treated air (High / Med. / Low)		m³/h	558/478/384	558/478/384
Motor power (Output)		W	20	20
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



Remote control included as standard

"3D flow" air diffusion

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

Up to 12 fan speeds

Model			HKEMM 266 ZAL	HKEMM 356 ZAL
Type			Indoor wall unit	
Control (included)			Remote control	
Rated capacity	Cooling	kW	2.64	3.52
	Heating	kW	2.93	3.81
Electrical data				
Power supply		Ph-V-Hz	-	-
Connection wires between I.U. and O.U.		no.	4	4
Refrigerant circuit				
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø9.52(3/8")
Product specifications				
Dimensions		LxDxH mm	835x208x295	835x208x295
Net weight		Kg	8.7	8.7
Sound pressure level	Hi/Mi/Lo	dB(A)	37/31/22	39/33/22
	Hi	dB(A)	54	55
Treated air (High / Med. / Low)		m³/h	510/360/300	520/370/310
Motor power (Output)		W	50	50
Optional parts				
Wi-Fi module			HKM-WiFi	
Wired remote control			NO	
Centralized control			NO	

RESIDENTIAL AND COMMERCIAL R32

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ACTIVE LINE DC INVERTER MULTISPLIT INDOOR UNITS

Wall HKEU 203 ZL - HKEU 263-533-713 ZAL - HKEU 353 ZAL-1



Wi-Fi
(optional)



Remote control
included as
standard

High density filter
Self-cleaning function
Anti-freeze function 8° C

Model			HKEU 203 ZL	HKEU 263 ZAL	HKEU 353 ZAL-1	HKEU 533 ZAL	HKEU 713 ZAL
Type			Indoor wall unit				
Control (included)			Remote control				
Rated capacity	Cooling	kW	2.10	2.60	3.50	5.30	7.00
	Heating	kW	2.30	2.90	3.80	5.60	7.30
Electrical data							
Power supply		Ph-V-Hz	-	-	-	-	-
Connection wires between I.U. and O.U.		no.	4	4	4	4	4
Refrigerant circuit							
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø12.74(1/2")	ø9.52(3/8") - ø15.88(5/8")
Product specifications							
Dimensions		LxDxH mm	805x194x285	805x194x285	805x194x285	957x213x302	1040x220x327
Net weight		Kg	7.5	7.5	7.5	10	12.3
Sound pressure level		Hi/Mi/Lo/ULo dB(A)	40/30/26/21	40/30/26/21	40/34/26/22	44/37/30/25	44.5/42/34.5/28
Sound power level		Hi dB(A)	54	54	53	55	59
Treated air (High / Med. / Low)		m³/h	520/460/340	520/460/340	600/500/360	840/680/540	980/817/662
Motor power (Output)		W	40	40	40	36	58
Optional parts							
Wi-Fi module			HKM-WiFi				
Wired remote control			NO				
Centralized control			NO				

MULTISPLIT INDOOR UNITS

Console HFIU 260 ZL - HFIU 350 ZAL



Remote control
included as
standard

4 air distribution inlets for increased system energy efficiency
Double air distribution mode
Anti-formaldehyde filter supplied

Model			HFIU 260 ZL	HFIU 350 ZAL
Type			Indoor console unit	
Control (included)			Remote control	
Rated capacity	Cooling	kW	2.70	3.50
	Heating	kW	3.50	3.80
Electrical data				
Power supply		Ph-V-Hz	-	-
Connection wires between I.U. and O.U.		no.	4	4
Refrigerant circuit				
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø9.52(3/8")
Product specifications				
Dimensions		LxDxH mm	700x600x210	700x600x210
Net weight		Kg	14.8	14.8
Sound pressure level		Hi/Mi/Lo dB(A)	43/41.5/35	43/41.5/35
Sound power level		Hi dB(A)	58	58
Treated air (High / Med. / Low)		m³/h	512/480/370	512/480/370
Motor power (Output)		W	67	67
Optional parts				
Wi-Fi module			NO	
Wired remote control			YES	
Manual centralized control	Requires NIM-GRH interface		YES	
			XRV Mobile BMS	

RESIDENTIAL AND COMMERCIAL R32

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MULTISPLIT INDOOR UNITS

Compact cassette 60x60 HTFU 260 ZL - HTFU 350-530 ZAL



Remote control
included as
standard

TFP 200 ZA panel with 360° air diffusion

Pre-set for external air inlet

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

Model			HTFU 260 ZL	HTFU 350 ZAL	HTFU 530 ZAL
Type			Indoor cassette unit		
Control (included)			Remote control		
Rated capacity	Cooling	kW	2.60	3.50	5.30
	Heating	kW	2.90	4.10	5.40
Electrical data					
Power supply		Ph-V-Hz	-	-	-
Connection wires between I.U. and O.U.		no.	4	4	4
Refrigerant circuit					
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø12.74(1/2")
Product specifications					
Dimensions		LxDxH	mm	570x570x260	570x570x260
Net weight			Kg	14.5	16.2
Sound pressure level		Hi/Mi/Lo	dB(A)	38/33/29	41/37/34
Sound power level		Hi	dB(A)	53	58
Treated air (High / Med. / Low)			m³/h	580/500/450	617/504/415
Motor power (Output)			W	45	45
Accessories					
Decorative panel			TFP200ZA		
Optional parts					
Wi-Fi module			HKM-WIFI LCAC		
Wired remote control			YES		
Manual centralized control			YES¹		
Wi-Fi centralized control			YES¹		

1. Contact the Hokkaido technical department for installation.

MULTISPLIT INDOOR UNITS

Medium static pressure ducted

HUCU 260 ZL - HUCU 350-530 ZAL



Remote
control
included as
standard

Compatible with systems **AIRZONE**

Optional Clean Air UV-kit purification device

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

Model			HUCU 260 ZL	HUCU 350 ZAL	HUCU 530 ZAL
Type			Indoor ducted unit		
Control (included)			Remote control		
Rated capacity	Cooling	kW	2.60	3.50	5.30
	Heating	kW	2.90	3.80	5.60
Electrical data					
Power supply		Ph-V-Hz	-	-	-
Connection wires between I.U. and O.U.		no.	4	4	4
Refrigerant circuit					
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø12.74(1/2")
Product specifications					
Dimensions		LxDxH	700x450x200	700x450x200	880x674x210
Net weight		Kg	18	18	24.3
Sound pressure level		Hi/Mi/Lo	40/34.5/27.5	40/34.5/27.5	41.5/38/33
Sound power level		Hi	58	59	59
Treated air (High / Med. / Low)		m³/h	500/340/230	600/480/300	880/650/350
Fan static pressure		Std/Max	25/40	25/60	25/100
Motor power (Output)		W	130	130	90
Optional parts					
Wi-Fi module			HKM-WIFI LCAC		
Wired remote control			YES		
Manual centralized control			YES¹		
Wi-Fi centralized control			YES¹		

1. Contact the Hokkaido technical department for installation.

MULTISPLIT INDOOR UNITS

Ceiling **HSFU 530 ZAL**



Remote control
included as
standard

Excellent installation flexibility
Turbo function, for heating and cooling rooms
quickly

Model			HSFU 530 ZAL
Type			Indoor ceiling unit
Control (included)			Remote control
Rated capacity	Cooling	kW	5.30
	Heating	kW	5.60
Electrical data			
Power supply		Ph-V-Hz	-
Connection wires between I.U. and O.U.		no.	4
Refrigerant circuit			
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø12.74(1/2")
Product specifications			
Dimensions	LxDxH	mm	1068x675x235
Net weight		Kg	28
Sound pressure level	Hi/Mi/Lo	dB(A)	41.5/38.5/34.5
Sound power level	Hi	dB(A)	58
Treated air (High / Med. / Low)		m³/h	880/760/650
Motor power (Output)		W	96
Optional parts			
Wi-Fi module			HKM-WIFI LCAC
Wired remote control			YES
Manual centralized control			YES ¹
Wi-Fi centralized control			YES ¹

1. Contact the Hokkaido technical department for installation.





TECHNICAL APPENDIX



R32 combinations

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R32 COMBINATIONS

HCKU 470 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.				
1 unit	53	53	—	4.10	—	4.10	1.27	3.23	—	—	—	—
2 units	20+20	20	20	2.05	2.05	4.10	1.27	3.23	4.1	5.6	256	A+
	20+26	20	26	1.79	2.31	4.10	1.27	3.23	4.1	5.6	256	A+
	20+35	20	35	1.51	2.59	4.10	1.27	3.23	4.1	5.6	256	A+
	26+26	26	26	2.05	2.05	4.10	1.27	3.23	4.1	5.6	256	A+
	26+35	26	35	1.76	2.34	4.10	1.27	3.23	4.1	5.6	256	A+

HCKU 470 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.				
1 unit	53	53	—	4.40	—	4.40	1.19	3.71	—	—	—	—
2 units	20+20	20	20	2.20	2.20	4.40	1.19	3.71	3.7	3.8	1363	A
	20+26	20	26	1.93	2.48	4.40	1.19	3.71	3.7	3.8	1363	A
	20+35	20	35	1.62	2.78	4.40	1.19	3.71	3.7	3.8	1363	A
	26+26	26	26	2.20	2.20	4.40	1.19	3.71	3.7	3.8	1363	A
	26+35	26	35	1.89	2.51	4.40	1.19	3.71	3.7	3.8	1363	A

HCKU 530 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.				
1 unit	53	53	—	5.00	—	5.00	1.55	3.23	—	—	—	—
2 units	20+20	20	20	2.10	2.10	4.20	1.23	3.41	4.2	6.1	241	A++
	20+26	20	26	2.06	2.64	4.70	1.46	3.23	4.7	6.1	270	A++
	20+35	20	35	1.92	3.28	5.20	1.61	3.23	5.3	6.1	304	A++
	20+53	20	53	1.50	3.88	5.35	1.65	3.25	5.3	6.1	304	A++
	26+26	26	26	2.65	2.65	5.30	1.63	3.24	5.3	6.1	304	A++
	26+35	26	35	2.27	3.03	5.30	1.63	3.24	5.3	6.1	304	A++
	26+53	26	53	1.78	3.57	5.35	1.65	3.25	5.3	6.1	304	A++
	35+35	35	35	2.65	2.65	5.30	1.63	3.24	5.3	6.1	304	A++

HCKU 530 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.				
1 unit	53	53	—	5.20	—	5.20	1.35	3.85	—	—	—	—
2 units	20+20	20	20	2.50	2.50	5.00	1.24	4.03	4.8	3.8	1768	A
	20+26	20	26	2.32	2.98	5.30	1.34	3.95	4.8	3.8	1768	A
	20+35	20	35	2.03	3.47	5.50	1.37	4.01	4.8	3.8	1768	A
	20+53	20	53	1.60	4.14	5.70	1.42	4.01	4.8	3.8	1768	A
	26+26	26	26	2.79	2.79	5.57	1.39	4.01	4.8	3.8	1768	A
	26+35	26	35	2.40	3.20	5.60	1.40	4.01	4.8	3.8	1768	A
	26+53	26	53	1.93	3.87	5.80	1.45	4.01	4.8	3.8	1768	A
	35+35	35	35	2.80	2.80	5.60	1.40	4.01	4.8	3.8	1768	A

R32 COMBINATIONS

HCKU 600 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.				
2 units	20+35	20	35	—	1.95	3.35	—	5.30	1.64	3.23	5.3	5.6	331	A+
	20+53	20	53	—	1.76	4.54	—	6.30	1.95	3.23	6.1	5.6	381	A+
	26+26	26	26	—	2.65	2.65	—	5.30	1.64	3.23	5.3	5.6	331	A+
	26+35	26	35	—	2.57	3.43	—	6.00	1.86	3.23	6.0	5.6	375	A+
	26+53	26	53	—	2.10	4.20	—	6.30	1.94	3.24	6.1	5.6	381	A+
	35+35	35	35	—	3.10	3.10	—	6.20	1.92	3.23	6.1	5.6	381	A+
3 units	20+20+20	20	20	20	2.03	2.03	2.03	6.10	1.89	3.23	6.1	6.1	350	A++
	20+20+26	20	20	26	1.92	1.92	2.47	6.30	1.95	3.23	6.1	6.1	350	A++
	20+20+35	20	20	35	1.70	1.70	2.91	6.30	1.94	3.24	6.1	6.1	350	A++
	20+26+26	20	26	26	1.76	2.27	2.27	6.30	1.94	3.24	6.1	6.1	350	A++
	20+26+35	20	26	35	1.58	2.03	2.70	6.30	1.94	3.24	6.1	6.1	350	A++
	26+26+26	26	26	26	2.10	2.10	2.10	6.30	1.94	3.24	6.1	6.1	350	A++
	26+26+35	26	26	35	1.89	1.89	2.52	6.30	1.94	3.24	6.1	6.1	350	A++

HCKU 600 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.				
2 units	20+35	20	35	—	2.17	3.73	—	5.90	1.59	3.71	4.8	3.8	1768	A
	20+53	20	53	—	1.82	4.68	—	6.50	1.75	3.71	5.1	3.8	1886	A+
	26+26	26	26	—	2.95	2.95	—	5.90	1.59	3.71	4.8	3.8	1768	A
	26+35	26	35	—	2.70	3.60	—	6.30	1.70	3.71	5.1	3.8	1886	A+
	26+53	26	53	—	2.20	4.40	—	6.60	1.78	3.71	5.1	3.8	1886	A+
	35+35	35	35	—	3.15	3.15	—	6.30	1.70	3.71	5.1	3.8	1886	A+
3 units	20+20+20	20	20	20	2.20	2.20	2.20	6.60	1.78	3.71	5.6	4.0	1960	A+
	20+20+26	20	20	26	2.02	2.02	2.60	6.65	1.79	3.72	5.6	4.0	1960	A+
	20+20+35	20	20	35	1.80	1.80	3.09	6.70	1.80	3.72	5.6	4.0	1960	A+
	20+26+26	20	26	26	1.88	2.41	2.41	6.70	1.80	3.72	5.6	4.0	1960	A+
	20+26+35	20	26	35	1.68	2.15	2.87	6.70	1.80	3.72	5.6	4.0	1960	A+
	26+26+26	26	26	26	2.23	2.23	2.23	6.70	1.81	3.71	5.6	4.0	1960	A+
	26+26+35	26	26	35	2.01	2.01	2.68	6.70	1.80	3.72	5.6	4.0	1960	A+

R32 COMBINATIONS

HCKU 760 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.				
2 units	20+35	20	35	—	1.95	3.35	—	5.30	1.64	3.23	5.3	5.6	331	A+
	20+53	20	53	—	1.82	4.68	—	6.50	2.01	3.23	6.5	5.6	406	A+
	26+26	26	26	—	2.65	2.65	—	5.30	1.64	3.23	5.3	5.6	331	A+
	26+35	26	35	—	2.57	3.43	—	6.00	1.86	3.23	6.0	5.6	375	A+
	26+53	26	53	—	2.27	4.53	—	6.80	2.09	3.25	6.8	5.6	425	A+
	35+35	35	35	—	3.15	3.15	—	6.30	1.94	3.24	6.3	5.6	394	A+
	35+53	35	53	—	2.72	4.08	—	6.80	2.09	3.25	6.8	5.6	425	A+
3 units	20+20+20	20	20	20	2.43	2.43	2.43	7.30	2.26	3.23	7.3	6.1	419	A++
	20+20+26	20	20	26	2.25	2.25	2.90	7.40	2.29	3.23	7.4	6.1	425	A++
	20+20+35	20	20	35	2.13	2.13	3.65	7.90	2.45	3.23	7.9	6.1	453	A++
	20+20+53	20	20	53	1.73	1.73	4.44	7.90	2.43	3.25	7.9	6.1	453	A++
	20+26+26	20	26	26	2.13	2.74	2.74	7.60	2.35	3.23	7.6	6.1	436	A++
	20+26+35	20	26	35	1.98	2.54	3.39	7.90	2.45	3.23	7.9	6.1	453	A++
	20+26+53	20	26	53	1.63	2.09	4.18	7.90	2.43	3.25	7.9	6.1	453	A++
	20+35+35	20	35	35	1.78	3.06	3.06	7.90	2.43	3.25	7.9	6.1	453	A++
	26+26+26	26	26	26	2.63	2.63	2.63	7.90	2.45	3.23	7.9	6.1	453	A++
	26+26+35	26	26	35	2.37	2.37	3.16	7.90	2.43	3.25	7.9	6.1	453	A++
	26+35+35	26	35	35	2.15	2.87	2.87	7.90	2.43	3.25	7.9	6.1	453	A++
	35+35+35	35	35	35	2.63	2.63	2.63	7.90	2.43	3.25	7.9	6.1	453	A++

HCKU 760 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.				
2 units	20+35	20	35	—	2.21	3.79	—	6.00	1.57	3.81	5.1	3.8	1879	A
	20+53	20	53	—	1.96	5.04	—	7.00	1.84	3.81	5.1	3.8	1879	A
	26+26	26	26	—	3.00	3.00	—	6.00	1.57	3.81	5.1	3.8	1879	A
	26+35	26	35	—	2.70	3.60	—	6.30	1.65	3.81	5.1	3.8	1879	A
	26+53	26	53	—	2.33	4.67	—	7.00	1.84	3.81	5.1	3.8	1879	A
	35+35	35	35	—	3.25	3.25	—	6.50	1.71	3.81	5.1	3.8	1879	A
	35+53	35	53	—	2.80	4.20	—	7.00	1.84	3.81	5.1	3.8	1879	A
3 units	20+20+20	20	20	20	2.27	2.27	2.27	6.80	1.75	3.88	5.6	4.0	1960	A+
	20+20+26	20	20	26	2.13	2.13	2.74	7.00	1.80	3.88	5.6	4.0	1960	A+
	20+20+35	20	20	35	2.13	2.13	3.65	7.90	2.03	3.90	5.6	4.0	1960	A+
	20+20+53	20	20	53	1.82	1.82	4.67	8.30	2.12	3.91	5.6	4.0	1960	A+
	20+26+26	20	26	26	2.21	2.84	2.84	7.90	2.03	3.90	5.6	4.0	1960	A+
	20+26+35	20	26	35	2.05	2.64	3.51	8.20	2.10	3.91	5.6	4.0	1960	A+
	20+26+53	20	26	53	1.71	2.20	4.39	8.30	2.12	3.92	5.6	4.0	1960	A+
	20+35+35	20	35	35	1.87	3.21	3.21	8.30	2.12	3.92	5.6	4.0	1960	A+
	26+26+26	26	26	26	2.73	2.73	2.73	8.20	2.10	3.91	5.6	4.0	1960	A+
	26+26+35	26	26	35	2.49	2.49	3.32	8.30	2.12	3.91	5.6	4.0	1960	A+
	26+35+35	26	35	35	2.26	3.02	3.02	8.30	2.12	3.92	5.6	4.0	1960	A+
	35+35+35	35	35	35	2.77	2.77	2.77	8.30	2.12	3.92	5.6	4.0	1960	A+

R32 COMBINATIONS

HCKU 810 Z4 Cooling

Combinations	Indoor Units	Combination				Rated heating 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				
2 units	20+35	20	35	—	—	1.95	3.35	—	—	5.30	1.64	3.23	5.3	5.1	364	A
	20+53	20	53	—	—	1.96	5.04	—	—	7.00	2.17	3.23	7.0	5.1	480	A
	26+26	26	26	—	—	2.65	2.65	—	—	5.30	1.64	3.23	5.3	5.1	364	A
	26+35	26	35	—	—	2.57	3.43	—	—	6.00	1.86	3.23	6.0	5.1	412	A
	26+53	26	53	—	—	2.43	4.87	—	—	7.30	2.26	3.23	7.3	5.1	501	A
	35+35	35	35	—	—	3.25	3.25	—	—	6.50	2.01	3.23	6.5	5.1	446	A
	35+53	35	53	—	—	2.92	4.38	—	—	7.30	2.26	3.23	7.3	5.1	501	A
	53+53	53	53	—	—	3.75	3.75	—	—	7.50	2.32	3.23	7.5	5.1	515	A
3 units	20+20+20	20	20	20	—	2.00	2.00	2.00	—	6.00	1.86	3.23	6.0	5.6	375	A+
	20+20+26	20	20	26	—	1.98	1.98	2.54	—	6.50	2.01	3.23	6.5	5.6	406	A+
	20+20+35	20	20	35	—	1.91	1.91	3.28	—	7.10	2.20	3.23	7.1	5.6	444	A+
	20+20+53	20	20	53	—	1.71	1.71	4.39	—	7.80	2.41	3.23	7.8	5.6	488	A+
	20+26+26	20	26	26	—	1.90	2.45	2.68	—	6.80	2.11	3.23	6.8	5.6	425	A+
	20+26+35	20	26	35	—	1.88	2.41	3.21	—	7.50	2.32	3.23	7.5	5.6	469	A+
	20+26+53	20	26	53	—	1.61	2.06	4.13	—	7.80	2.41	3.23	7.8	5.6	488	A+
	20+35+35	20	35	35	—	1.76	3.02	3.02	—	7.80	2.41	3.23	7.8	5.6	488	A+
	20+35+53	20	35	53	—	1.48	2.53	3.79	—	7.80	2.41	3.23	7.8	5.6	488	A+
	26+26+26	26	26	26	—	2.37	2.37	2.37	—	7.10	2.20	3.23	7.1	5.6	444	A+
	26+26+35	26	26	35	—	2.34	2.34	3.12	—	7.80	2.41	3.23	7.8	5.6	488	A+
	26+26+53	26	26	53	—	1.95	1.95	3.90	—	7.80	2.41	3.23	7.8	5.6	488	A+
	26+35+35	26	35	35	—	2.13	2.84	2.84	—	7.80	2.41	3.23	7.8	5.6	488	A+
	26+35+53	26	35	53	—	1.80	2.40	3.60	—	7.80	2.41	3.23	7.8	5.6	488	A+
	35+35+35	35	35	35	—	2.60	2.60	2.60	—	7.80	2.41	3.23	7.8	5.6	488	A+
4 units	20+20+20+20	20	20	20	20	2.05	2.05	2.05	2.05	8.21	2.54	3.23	8.2	6.1	471	A++
	20+20+20+26	20	20	20	26	1.92	1.92	1.92	2.46	8.21	2.54	3.23	8.2	6.1	471	A++
	20+20+20+35	20	20	20	35	1.74	1.74	1.74	2.99	8.21	2.54	3.23	8.2	6.1	471	A++
	20+20+20+53	20	20	20	53	1.47	1.47	1.47	3.79	8.21	2.53	3.25	8.2	6.1	471	A++
	20+20+26+26	20	20	26	26	1.80	1.80	2.31	2.31	8.21	2.54	3.23	8.2	6.1	471	A++
	20+20+26+35	20	20	26	35	1.64	1.64	2.11	2.81	8.21	2.54	3.23	8.2	6.1	471	A++
	20+20+35+35	20	20	35	35	1.51	1.51	2.59	2.59	8.21	2.53	3.24	8.2	6.1	471	A++
	20+26+26+26	20	26	26	26	1.69	2.17	2.17	2.17	8.21	2.54	3.23	8.2	6.1	471	A++
	20+26+26+35	20	26	26	35	1.55	2.00	2.00	2.66	8.21	2.53	3.24	8.2	6.1	471	A++
	20+26+35+35	20	26	35	35	1.44	1.85	2.46	2.46	8.21	2.53	3.25	8.2	6.1	471	A++
	26+26+26+26	26	26	26	26	2.05	2.05	2.05	2.05	8.21	2.53	3.24	8.2	6.1	471	A++
	26+26+26+35	26	26	26	35	1.89	1.89	1.89	2.53	8.21	2.53	3.25	8.2	6.1	471	A++

R32 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.				
2 units	20+35	20	35	—	—	2.21	3.79	—	—	6.00	1.57	3.81	4.6	3.4	1902	A
	20+53	20	53	—	—	2.18	5.62	—	—	7.80	2.03	3.85	6.0	3.4	2473	A
	26+26	26	26	—	—	3.00	3.00	—	—	6.00	1.57	3.81	4.6	3.4	1902	A
	26+35	26	35	—	—	3.00	4.00	—	—	7.00	1.84	3.81	5.4	3.4	2219	A
	26+53	26	53	—	—	2.63	5.27	—	—	7.90	2.05	3.85	6.1	3.4	2505	A
	35+35	35	35	—	—	3.75	3.75	—	—	7.50	1.97	3.81	5.8	3.4	2378	A
	35+53	35	53	—	—	3.20	4.80	—	—	8.00	2.08	3.85	6.1	3.4	2505	A
3 units	53+53	53	53	—	—	4.00	4.00	—	—	8.00	2.08	3.85	6.1	3.4	2505	A
	20+20+20	20	20	20	—	2.33	2.33	2.33	—	7.00	1.79	3.90	5.4	3.5	2156	A
	20+20+26	20	20	26	—	2.37	2.37	3.05	—	7.80	2.00	3.90	6.0	3.5	2402	A
	20+20+35	20	20	35	—	2.26	2.26	3.88	—	8.40	2.14	3.92	6.1	3.5	2440	A
	20+20+53	20	20	53	—	1.88	1.88	4.84	—	8.60	2.19	3.92	6.2	3.5	2480	A
	20+26+26	20	26	26	—	2.35	3.02	2.68	—	8.40	2.14	3.92	6.1	3.5	2440	A
	20+26+35	20	26	35	—	2.13	2.73	3.64	—	8.50	2.17	3.92	6.2	3.5	2480	A
	20+26+53	20	26	53	—	1.77	2.28	4.55	—	8.60	2.18	3.95	6.2	3.5	2480	A
	20+35+35	20	35	35	—	1.94	3.33	3.33	—	8.60	2.19	3.92	6.2	3.5	2480	A
	20+35+53	20	35	53	—	1.63	2.79	4.18	—	8.60	2.18	3.95	6.2	3.5	2480	A
	26+26+26	26	26	26	—	2.87	2.87	2.87	—	8.60	2.19	3.92	6.2	3.5	2480	A
	26+26+35	26	26	35	—	2.58	2.58	3.44	—	8.60	2.19	3.92	6.2	3.5	2480	A
	26+26+53	26	26	53	—	2.15	2.15	4.30	—	8.60	2.18	3.95	6.2	3.5	2480	A
	26+35+35	26	35	35	—	2.35	3.13	3.13	—	8.60	2.19	3.92	6.2	3.5	2480	A
	26+35+53	26	35	53	—	1.98	2.65	3.97	—	8.60	2.18	3.95	6.2	3.5	2480	A
	35+35+35	35	35	35	—	2.87	2.87	2.87	—	8.60	2.18	3.95	6.2	3.5	2480	A
4 units	20+20+20+20	20	20	20	20	2.20	2.20	2.20	2.20	8.80	2.20	4.00	6.5	3.8	2395	A
	20+20+20+26	20	20	20	26	2.08	2.08	2.08	2.67	8.90	2.22	4.01	6.5	3.8	2395	A
	20+20+20+35	20	20	20	35	1.91	1.91	1.91	3.27	9.00	2.24	4.01	6.5	3.8	2395	A
	20+20+20+53	20	20	20	53	1.63	1.63	1.63	4.20	9.10	2.27	4.01	6.5	3.8	2395	A
	20+20+26+26	20	20	26	26	1.95	1.95	2.50	2.50	8.90	2.22	4.01	6.5	3.8	2395	A
	20+20+26+35	20	20	26	35	1.80	1.80	2.31	3.09	9.00	2.24	4.01	6.5	3.8	2395	A
	20+20+35+35	20	20	35	35	1.68	1.68	2.87	2.87	9.10	2.27	4.01	6.5	3.8	2395	A
	20+26+26+26	20	26	26	26	1.83	2.36	2.36	2.36	8.90	2.23	4.00	6.5	3.8	2395	A
	20+26+26+35	20	26	26	35	1.70	2.19	2.19	2.92	9.00	2.24	4.01	6.5	3.8	2395	A
	20+26+35+35	20	26	35	35	1.59	2.05	2.73	2.73	9.10	2.27	4.01	6.5	3.8	2395	A
	26+26+26+26	26	26	26	26	2.23	2.23	2.23	2.23	8.90	2.22	4.01	6.5	3.8	2395	A
	26+26+26+35	26	26	26	35	2.10	2.10	2.10	2.80	9.10	2.27	4.01	6.5	3.8	2395	A

R32 COMBINATIONS

HCKU 1060 Z4 Cooling

Combinations	Indoor Units	Combination				Rated heating 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.				
2 units	20+35	20	35	—	—	2.03	3.47	—	—	5.50	1.68	3.28	5.5	5.1	377	A
	20+53	20	53	—	—	1.96	5.04	—	—	7.00	2.13	3.28	7.0	5.2	471	A
	20+71	20	71	—	—	2.03	6.97	—	—	9.00	2.74	3.28	9.0	5.2	606	A
	26+26	26	26	—	—	2.65	2.65	—	—	5.30	1.62	3.28	5.3	5.2	357	A
	26+35	26	35	—	—	2.57	3.43	—	—	6.00	1.83	3.28	6.0	5.2	404	A
	26+53	26	53	—	—	2.50	5.00	—	—	7.50	2.29	3.28	7.5	5.2	505	A
	26+71	26	71	—	—	2.59	6.91	—	—	9.50	2.90	3.28	9.5	5.2	639	A
	35+35	35	35	—	—	3.50	3.50	—	—	7.00	2.13	3.28	7.0	5.2	471	A
	35+53	35	53	—	—	3.40	5.10	—	—	8.50	2.59	3.28	8.5	5.2	572	A
	35+71	35	71	—	—	3.33	6.67	—	—	10.00	3.09	3.24	10.0	5.2	673	A
	53+53	53	53	—	—	5.00	5.00	—	—	10.00	3.09	3.24	10.0	5.2	673	A
3 units	20+20+20	20	20	20	—	2.00	2.00	2.00	—	6.00	1.80	3.33	6.0	5.6	375	A+
	20+20+26	20	20	26	—	1.98	1.98	2.54	—	6.50	1.98	3.28	6.5	5.6	406	A+
	20+20+35	20	20	35	—	2.02	2.02	3.46	—	7.50	2.29	3.28	7.5	5.6	469	A+
	20+20+53	20	20	53	—	1.97	1.97	5.06	—	9.00	2.74	3.28	9.0	5.8	543	A+
	20+20+71	20	20	71	—	1.84	1.84	6.32	—	10.00	3.09	3.24	10.0	5.8	603	A+
	20+26+26	20	26	26	—	1.96	2.52	2.52	—	7.00	2.13	3.28	7.0	5.8	422	A+
	20+26+35	20	26	35	—	2.00	2.57	3.43	—	8.00	2.44	3.28	8.0	5.8	483	A+
	20+26+53	20	26	53	—	1.96	2.51	5.03	—	9.50	2.93	3.24	9.5	5.8	573	A+
	20+26+71	20	26	71	—	1.75	2.25	6.00	—	10.00	3.09	3.24	10.0	5.8	603	A+
	20+35+35	20	35	35	—	2.03	3.48	3.48	—	9.00	2.78	3.24	9.0	5.8	543	A+
	20+35+53	20	35	53	—	1.89	3.24	4.86	—	10.00	3.09	3.24	10.0	5.8	603	A+
	20+35+71	20	35	71	—	1.63	2.79	5.58	—	10.00	3.09	3.24	10.0	5.8	603	A+
	20+53+53	20	53	53	—	1.63	4.19	4.19	—	10.00	3.09	3.24	10.0	5.8	603	A+
	26+26+26	26	26	26	—	2.50	2.50	2.50	—	7.50	2.31	3.24	7.5	5.8	453	A+
	26+26+35	26	26	35	—	2.55	2.55	3.40	—	8.50	2.62	3.24	8.5	5.8	513	A+
	26+26+53	26	26	53	—	2.50	2.50	5.00	—	10.00	3.09	3.24	10.0	5.8	603	A+
	26+26+71	26	26	71	—	2.14	2.14	5.71	—	10.00	3.09	3.24	10.0	5.8	603	A+
	26+35+35	26	35	35	—	2.59	3.45	3.45	—	9.50	2.93	3.24	9.5	5.8	573	A+
	26+35+53	26	35	53	—	2.31	3.08	4.62	—	10.00	3.09	3.24	10.0	5.8	603	A+
	26+35+71	26	35	71	—	2.00	2.67	5.33	—	10.00	3.09	3.24	10.0	5.8	603	A+
	26+53+53	26	53	53	—	2.00	4.00	4.00	—	10.00	3.09	3.24	10.0	5.8	603	A+
	35+35+35	35	35	35	—	3.33	3.33	3.33	—	10.00	3.09	3.24	10.0	5.8	603	A+
	35+35+53	35	35	53	—	2.86	2.86	4.29	—	10.00	3.09	3.24	10.0	5.8	603	A+
	35+35+71	35	35	71	—	2.50	2.50	5.00	—	10.00	3.09	3.24	10.0	5.8	603	A+
	35+53+53	35	53	53	—	2.50	3.75	3.75	—	10.00	3.09	3.24	10.0	5.8	603	A+
4 units	20+20+20+20	20	20	20	20	2.05	2.05	2.05	2.05	8.20	2.29	3.58	8.2	6.1	470	A++
	20+20+20+26	20	20	20	26	1.98	1.98	1.98	2.55	8.50	2.47	3.44	8.5	6.1	488	A++
	20+20+20+35	20	20	20	35	2.02	2.02	2.02	3.45	9.50	2.86	3.32	9.5	6.1	545	A++
	20+20+20+53	20	20	20	53	1.87	1.87	1.87	4.80	10.40	3.22	3.23	10.4	6.2	587	A++
	20+20+20+71	20	20	20	71	1.65	1.65	1.65	5.65	10.60	3.28	3.23	10.6	6.2	598	A++
	20+20+26+26	20	20	26	26	1.97	1.97	2.53	2.53	9.00	2.71	3.32	9.0	6.2	508	A++
	20+20+26+35	20	20	26	35	2.00	2.00	2.57	3.43	10.00	3.09	3.24	10.0	6.2	565	A++
	20+20+26+53	20	20	26	53	1.81	1.81	2.33	4.65	10.60	3.28	3.23	10.6	6.2	598	A++
	20+20+26+71	20	20	26	71	1.58	1.58	2.03	5.41	10.60	3.28	3.23	10.6	6.2	598	A++
	20+20+35+35	20	20	35	35	1.95	1.95	3.35	3.35	10.60	3.28	3.23	10.6	6.2	598	A++
	20+20+35+53	20	20	35	53	1.69	1.69	2.89	4.34	10.60	3.28	3.23	10.6	6.2	598	A++
	20+20+53+53	20	20	53	53	1.48	1.48	3.82	3.82	10.60	3.28	3.23	10.6	6.2	598	A++
	20+26+26+26	20	26	26	26	1.96	2.51	2.51	2.51	9.50	2.92	3.25	9.5	6.2	536	A++
	20+26+26+35	20	26	26	35	2.01	2.58	2.58	3.44	10.60	3.28	3.23	10.6	6.2	598	A++
	20+26+26+53	20	26	26	53	1.73	2.22	2.22	4.44	10.60	3.28	3.23	10.6	6.2	598	A++
	20+26+26+71	20	26	26	71	1.51	1.95	1.95	5.19	10.60	3.28	3.23	10.6	6.2	598	A++
	20+26+35+35	20	26	35	35	1.86	2.39	3.18	3.18	10.60	3.28	3.23	10.6	6.2	598	A++

R32 COMBINATIONS

HCKU 1060 Z4 Cooling

Combinations	Indoor Units	Combination				Rated heating 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.				
4 units	20+26+35+53	20	26	35	53	1.61	2.07	2.77	4.15	10.60	3.28	3.23	10.6	6.2	598	A++
	20+26+53+53	20	26	53	53	1.43	1.83	3.67	3.67	10.60	3.28	3.23	10.6	6.2	598	A++
	20+35+35+35	20	35	35	35	1.73	2.96	2.96	2.96	10.60	3.28	3.23	10.6	6.2	598	A++
	20+35+35+53	20	35	35	53	1.51	2.60	2.60	3.89	10.60	3.28	3.23	10.6	6.2	598	A++
	26+26+26+26	26	26	26	26	2.65	2.65	2.65	2.65	10.60	3.28	3.23	10.6	6.2	598	A++
	26+26+26+35	26	26	26	35	2.45	2.45	2.45	3.26	10.60	3.28	3.23	10.6	6.2	598	A++
	26+26+26+53	26	26	26	53	2.12	2.12	2.12	4.24	10.60	3.28	3.23	10.6	6.2	598	A++
	26+26+35+35	26	26	35	35	2.27	2.27	3.03	3.03	10.60	3.28	3.23	10.6	6.2	598	A++
	26+26+35+53	26	26	35	53	1.99	1.99	2.65	3.98	10.60	3.28	3.23	10.6	6.2	598	A++
	26+35+35+35	26	35	35	35	2.12	2.83	2.83	2.83	10.60	3.28	3.23	10.6	6.2	598	A++
	26+35+35+53	26	35	35	53	1.87	2.49	2.49	3.74	10.60	3.28	3.23	10.6	6.2	598	A++
	35+35+35+35	35	35	35	35	2.65	2.65	2.65	2.65	10.60	3.28	3.23	10.6	6.2	598	A++

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.				
2 units	20+35	20	35	—	—	2.21	3.79	—	—	6.00	1.59	3.78	4.3	3.4	1787	A
	20+53	20	53	—	—	2.24	5.76	—	—	8.00	2.12	3.78	4.7	3.4	1915	A
	20+20	20	20	—	—	2.17	7.43	—	—	9.60	2.54	3.78	4.7	3.4	1915	A
	26+26	26	26	—	—	3.00	3.00	—	—	6.00	1.59	3.78	6.2	3.4	2553	A
	26+35	26	35	—	—	3.00	4.00	—	—	7.00	1.85	3.78	4.7	3.4	1915	A
	26+53	26	53	—	—	2.93	5.87	—	—	8.80	2.33	3.78	5.4	3.4	2234	A
	26+20	26	20	—	—	2.67	7.13	—	—	9.80	2.58	3.80	4.7	3.4	1915	A
	35+35	35	35	—	—	3.75	3.75	—	—	7.50	1.98	3.78	6.8	3.4	2808	A
	35+53	35	53	—	—	3.76	5.64	—	—	9.40	2.49	3.78	5.8	3.4	2393	A
	35+71	35	20	—	—	3.33	6.67	—	—	10.00	2.63	3.80	4.7	3.4	1915	A
	53+53	53	53	—	—	5.05	5.05	—	—	10.10	2.66	3.80	7.3	3.5	2914	A
3 units	20+20+20	20	20	20	—	2.50	2.50	2.50	—	7.50	1.96	3.82	8.4	3.6	3267	A
	20+20+26	20	20	26	—	2.37	2.37	3.05	—	7.80	2.04	3.82	5.8	3.6	2260	A
	20+20+35	20	20	35	—	2.29	2.29	3.92	—	8.50	2.23	3.82	6.0	3.6	2351	A
	20+20+53	20	20	53	—	2.34	2.34	6.02	—	10.70	2.78	3.85	6.6	3.6	2562	A
	20+20+20	20	20	20	—	1.97	1.97	6.76	—	10.70	2.78	3.85	6.6	3.6	2562	A
	20+26+26	20	26	26	—	2.38	3.06	3.06	—	8.50	2.23	3.82	8.6	3.6	3344	A
	20+26+35	20	26	35	—	2.50	3.21	4.29	—	10.00	2.62	3.82	6.6	3.6	2562	A
	20+26+53	20	26	53	—	2.20	2.83	5.66	—	10.70	2.78	3.85	7.8	3.6	3014	A
	20+26+20	20	26	20	—	1.87	2.41	6.42	—	10.70	2.78	3.85	7.8	3.6	3014	A
	20+35+35	20	35	35	—	2.28	3.91	3.91	—	10.10	2.62	3.85	8.6	3.6	3344	A
	20+35+53	20	35	53	—	2.02	3.47	5.21	—	10.70	2.78	3.85	8.4	3.6	3267	A
	20+35+20	20	35	20	—	1.74	2.99	5.97	—	10.70	2.78	3.85	8.4	3.6	3267	A
	20+53+53	20	53	53	—	1.74	4.48	4.48	—	10.70	2.78	3.85	8.6	3.6	3344	A
	26+26+26	26	26	26	—	3.33	3.33	3.33	—	10.00	2.62	3.82	8.6	3.6	3344	A
	26+26+35	26	26	35	—	3.03	3.03	4.04	—	10.10	2.62	3.85	7.8	3.6	3014	A
	26+26+53	26	26	53	—	2.68	2.68	5.35	—	10.70	2.78	3.85	8.4	3.6	3267	A
	26+26+20	26	26	20	—	2.29	2.29	6.11	—	10.70	2.78	3.85	8.4	3.6	3267	A
	26+35+35	26	35	35	—	2.92	3.89	3.89	—	10.70	2.78	3.85	8.6	3.6	3344	A
	26+35+53	26	35	53	—	2.47	3.29	4.94	—	10.70	2.78	3.85	8.6	3.6	3344	A
	26+35+20	26	35	20	—	2.14	2.85	5.71	—	10.70	2.78	3.85	8.6	3.6	3344	A
	26+53+53	26	53	53	—	2.14	4.28	4.28	—	10.70	2.78	3.85	8.6	3.6	3344	A
	35+35+35	35	35	35	—	3.57	3.57	3.57	—	10.70	2.78	3.85	8.6	3.6	3344	A
	35+35+53	35	35	53	—	3.06	3.06	4.59	—	10.70	2.78	3.85	8.6	3.6	3344	A
	35+35+20	35	35	20	—	2.68	2.68	5.35	—	10.70	2.78	3.85	8.6	3.6	3344	A
	35+53+53	35	53	53	—	2.68	4.01	4.01	—	10.70	2.78	3.85	8.6	3.6	3344	A

R32 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.				
4 units	20+20+20+20	20	20	20	20	2.50	2.50	2.50	2.50	10.00	2.56	3.90	8.6	3.8	3168	A
	20+20+20+26	20	20	20	26	2.36	2.36	2.36	3.03	10.10	2.59	3.90	7.8	3.8	2855	A
	20+20+20+35	20	20	20	35	2.31	2.31	2.31	3.96	10.90	2.79	3.90	8.5	3.8	3132	A
	20+20+20+53	20	20	20	53	1.99	1.99	1.99	5.12	11.10	2.84	3.91	9.0	3.8	3316	A
	20+20+20+20	20	20	20	20	1.73	1.73	1.73	5.92	11.10	2.84	3.91	9.0	3.8	3316	A
	20+20+26+26	20	20	26	26	2.38	2.38	3.07	3.07	10.90	2.79	3.90	9.0	3.8	3316	A
	20+20+26+35	20	20	26	35	2.22	2.22	2.85	3.81	11.10	2.85	3.90	9.0	3.8	3316	A
	20+20+26+53	20	20	26	53	1.90	1.90	2.44	4.87	11.10	2.84	3.91	9.0	3.8	3316	A
	20+20+26+20	20	20	26	20	1.65	1.65	2.13	5.67	11.10	2.84	3.91	9.0	3.8	3316	A
	20+20+35+35	20	20	35	35	2.04	2.04	3.51	3.51	11.10	2.84	3.91	9.0	3.8	3316	A
	20+20+35+53	20	20	35	53	1.77	1.77	3.03	4.54	11.10	2.84	3.91	9.0	3.8	3316	A
	20+20+53+53	20	20	53	53	1.55	1.55	4.00	4.00	11.10	2.84	3.91	9.0	3.8	3316	A
	20+26+26+26	20	26	26	26	2.29	2.94	2.94	2.94	11.10	2.85	3.90	9.0	3.8	3316	A
	20+26+26+35	20	26	26	35	2.10	2.70	2.70	3.60	11.10	2.82	3.93	9.0	3.8	3316	A
	20+26+26+53	20	26	26	53	1.81	2.32	2.32	4.65	11.10	2.82	3.93	9.0	3.8	3316	A
	20+26+26+20	20	26	26	20	1.59	2.04	2.04	5.44	11.10	2.82	3.93	9.0	3.8	3316	A
	20+26+35+35	20	26	35	35	1.94	2.50	3.33	3.33	11.10	2.82	3.93	9.0	3.8	3316	A
	20+26+35+53	20	26	35	53	1.69	2.17	2.90	4.34	11.10	2.82	3.93	9.0	3.8	3316	A
	20+26+53+53	20	26	53	53	1.49	1.92	3.84	3.84	11.10	2.82	3.93	9.0	3.8	3316	A
	20+35+35+35	20	35	35	35	1.81	3.10	3.10	3.10	11.10	2.82	3.93	9.0	3.8	3316	A
	20+35+35+53	20	35	35	53	1.59	2.72	2.72	4.08	11.10	2.82	3.93	9.0	3.8	3316	A
	26+26+26+26	26	26	26	35	2.56	2.56	2.56	3.42	11.10	2.82	3.93	9.0	3.8	3316	A
	26+26+26+53	26	26	26	53	2.22	2.22	2.22	4.44	11.10	2.82	3.93	9.0	3.8	3316	A
	26+26+35+35	26	26	35	35	2.38	2.38	3.17	3.17	11.10	2.82	3.93	9.0	3.8	3316	A
	26+26+35+53	26	26	35	53	2.08	2.08	2.78	4.16	11.10	2.82	3.93	9.0	3.8	3316	A
	26+35+35+35	26	35	35	35	2.22	2.96	2.96	2.96	11.10	2.82	3.93	9.0	3.8	3316	A
	26+35+35+53	26	35	35	53	1.96	2.61	2.61	3.92	11.10	2.82	3.93	9.0	3.8	3316	A
	35+35+35+35	35	35	35	35	2.78	2.78	2.78	2.77	11.10	2.82	3.93	9.0	3.8	3316	A

HCKU 1200 Z5 Cooling

Combinations	Indoor Units	Combination					Rated heating capacity (kW)					Total cooling capacity (kW)	Power absorption (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy class
		Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	std.	std.	std.				
2 units	20+35	20	35	—	—	—	2.08	3.57	—	—	—	5.65	1.80	3.12	5.5	5.1	377	A
	20+53	20	53	—	—	—	2.07	5.32	—	—	—	7.38	2.35	3.06	7.0	5.1	480	A
	20+71	20	71	—	—	—	2.04	6.98	—	—	—	9.02	2.88	3.01	9.1	5.1	625	A
	26+26	26	26	—	—	—	2.68	2.68	—	—	—	5.36	1.71	3.12	5.3	5.1	364	A
	26+35	26	35	—	—	—	2.67	3.56	—	—	—	6.23	1.99	3.10	6.0	5.1	412	A
	26+53	26	53	—	—	—	2.65	5.31	—	—	—	7.96	2.54	3.04	7.5	5.1	515	A
	26+71	26	71	—	—	—	2.62	6.98	—	—	—	9.60	3.06	2.99	9.7	5.1	666	A
	35+35	35	35	—	—	—	3.55	3.55	—	—	—	7.09	2.26	3.07	7.0	5.1	480	A
	35+53	35	53	—	—	—	3.53	5.30	—	—	—	8.83	2.82	3.02	8.5	5.1	583	A
	35+71	35	71	—	—	—	3.49	6.98	—	—	—	10.47	3.34	2.97	10.0	5.1	686	A
	53+53	53	53	—	—	—	5.28	5.28	—	—	—	10.56	3.37	2.96	10.5	5.1	721	A
	53+71	53	71	—	—	—	4.93	6.57	—	—	—	11.50	3.88	2.96	11.5	5.1	789	A
3 units	20+20+20	20	20	20	—	—	2.04	2.04	2.04	—	—	6.13	1.58	3.10	6.0	5.3	396	A
	20+20+26	20	20	26	—	—	2.04	2.04	2.62	—	—	6.71	1.73	3.08	6.5	5.3	429	A
	20+20+35	20	20	35	—	—	2.04	2.04	3.50	—	—	7.58	1.95	3.06	7.5	5.3	495	A
	20+20+53	20	20	53	—	—	2.04	2.04	5.24	—	—	9.31	2.40	3.00	9.0	5.3	594	A
	20+20+71	20	20	71	—	—	2.02	2.02	6.92	—	—	10.95	2.82	2.95	11.0	5.3	726	A
	20+26+26	20	26	26	—	—	2.04	2.62	2.62	—	—	7.29	1.87	3.06	7.0	5.3	462	A
	20+26+35	20	26	35	—	—	2.04	2.62	3.49	—	—	8.15	2.10	3.04	8.0	5.3	528	A
	20+26+53	20	26	53	—	—	2.04	2.62	5.24	—	—	9.89	2.54	2.98	9.5	5.3	627	A

R32 COMBINATIONS

HCKU 1200 Z5 Cooling

Combinations	Indoor Units	Combination					Rated heating capacity (kW)					Total cooling capacity (kW)	Power absorption (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy class
		Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	std.	std.	std.				
3 units	20+26+71	20	26	71	—	—	2.02	2.59	6.92	—	—	11.53	2.97	2.93	11.5	5.3	759	A
	20+35+35	20	35	35	—	—	2.04	3.49	3.49	—	—	9.02	2.32	3.01	9.0	5.3	594	A
	20+35+53	20	35	53	—	—	2.04	3.49	5.23	—	—	10.76	2.77	2.96	10.5	5.3	693	A
	20+35+71	20	35	71	—	—	2.02	3.46	6.92	—	—	12.40	3.19	2.91	11.5	5.3	759	A
	20+53+53	20	53	53	—	—	2.03	5.23	5.23	—	—	12.49	3.21	2.90	11.5	5.3	759	A
	26+26+26	26	26	26	—	—	2.62	2.62	2.62	—	—	7.86	2.02	3.05	8.0	5.3	528	A
	26+26+35	26	26	35	—	—	2.62	2.62	3.49	—	—	8.73	2.25	3.02	9.0	5.3	594	A
	26+26+53	26	26	53	—	—	2.62	2.62	5.23	—	—	10.47	2.69	2.97	10.5	5.3	693	A
	26+26+71	26	26	71	—	—	2.59	2.59	6.92	—	—	12.11	3.12	2.91	11.5	5.3	759	A
	26+35+35	26	35	35	—	—	2.62	3.49	3.49	—	—	9.60	2.47	2.99	9.0	5.3	594	A
	26+35+53	26	35	53	—	—	2.62	3.49	5.23	—	—	11.34	2.92	2.94	11.0	5.3	726	A
	26+35+71	26	35	71	—	—	2.60	3.46	6.92	—	—	12.98	3.34	2.89	11.5	5.3	759	A
	26+53+53	26	53	53	—	—	2.61	5.23	5.23	—	—	13.07	3.36	2.89	12.0	5.3	792	A
	35+35+35	35	35	35	—	—	3.49	3.49	3.49	—	—	10.47	2.69	2.97	9.5	5.3	627	A
	35+35+53	35	35	53	—	—	3.49	3.49	5.23	—	—	12.20	3.14	2.91	11.5	5.3	759	A
	35+35+71	35	35	71	—	—	3.46	3.46	6.92	—	—	13.84	3.56	2.89	12.0	5.3	792	A
	35+53+53	35	53	53	—	—	3.48	5.23	5.23	—	—	13.94	3.59	2.89	12.0	5.3	792	A
	35+53+71	35	53	71	—	—	2.67	4.00	5.33	—	—	12.00	4.15	2.89	12.0	5.3	792	A
	53+53+53	53	53	53	—	—	4.00	4.00	4.00	—	—	12.00	4.15	2.89	12.0	5.3	792	A
4 units	20+20+20+20	20	20	20	20	—	2.00	2.00	2.00	2.00	—	8.00	2.63	3.04	8.0	5.6	500	A+
	20+20+20+26	20	20	20	26	—	1.98	1.98	1.98	2.55	—	8.50	2.81	3.02	8.5	5.6	531	A+
	20+20+20+35	20	20	20	35	—	2.02	2.02	2.02	3.45	—	9.50	3.17	3.00	9.5	5.6	594	A+
	20+20+20+53	20	20	20	53	—	2.06	2.06	2.06	5.31	—	11.50	3.91	2.94	11.5	5.6	719	A+
	20+20+20+71	20	20	20	71	—	1.87	1.87	1.87	6.40	—	12.00	4.15	2.89	12.0	5.6	750	A+
	20+20+26+26	20	20	26	26	—	2.08	2.08	2.67	2.67	—	9.50	3.16	3.00	9.5	5.6	594	A+
	20+20+26+35	20	20	26	35	—	2.00	2.00	2.57	3.43	—	10.00	3.36	2.98	10.0	5.6	625	A+
	20+20+26+53	20	20	26	53	—	1.96	1.96	2.52	5.05	—	11.50	3.93	2.92	11.5	5.6	719	A+
	20+20+26+71	20	20	26	71	—	1.79	1.79	2.30	6.13	—	12.00	4.15	2.89	12.0	5.6	750	A+
	20+20+35+35	20	20	35	35	—	1.93	1.93	3.32	3.32	—	10.50	3.56	2.95	10.5	5.6	656	A+
	20+20+35+53	20	20	35	53	—	1.83	1.83	3.14	4.70	—	11.50	3.97	2.90	11.5	5.6	719	A+
	20+20+35+71	20	20	35	71	—	1.72	1.72	2.95	5.90	—	12.30	4.26	2.89	12.4	5.6	775	A+
	20+20+53+53	20	20	53	53	—	1.72	1.72	4.43	4.43	—	12.30	4.26	2.89	12.4	5.6	775	A+
	20+20+53+71	20	20	53	71	—	1.54	1.54	3.95	5.27	—	12.30	4.26	2.89	12.4	5.6	775	A+
	20+26+26+26	20	26	26	26	—	2.06	2.65	2.65	2.65	—	10.00	3.35	2.99	10.0	5.6	625	A+
	20+26+26+35	20	26	26	35	—	1.99	2.55	2.55	3.41	—	10.50	3.55	2.96	10.5	5.6	656	A+
	20+26+26+53	20	26	26	53	—	1.87	2.41	2.41	4.81	—	11.50	3.96	2.91	11.5	5.6	719	A+
	20+26+26+71	20	26	26	71	—	1.76	2.26	2.26	6.02	—	12.30	4.26	2.89	12.4	5.6	775	A+
	20+26+35+35	20	26	35	35	—	2.01	2.59	3.45	3.45	—	11.50	3.92	2.93	11.5	5.6	719	A+
	20+26+35+53	20	26	35	53	—	1.83	2.35	3.13	4.70	—	12.00	4.15	2.89	12.0	5.6	750	A+
	20+26+35+71	20	26	35	71	—	1.66	2.13	2.84	5.68	—	12.30	4.26	2.89	12.4	5.6	775	A+
	20+26+53+53	20	26	53	53	—	1.66	2.13	4.26	4.26	—	12.30	4.26	2.89	12.4	5.6	775	A+
	20+26+53+71	20	26	53	71	—	1.48	1.91	3.82	5.09	—	12.30	4.23	2.91	12.4	5.6	775	A+
	20+35+35+35	20	35	35	35	—	1.87	3.21	3.21	3.21	—	11.50	3.96	2.91	11.5	5.6	719	A+
	20+35+35+53	20	35	35	53	—	1.71	2.94	2.94	4.41	—	12.00	4.15	2.89	12.0	5.6	750	A+
	20+35+53+53	20	35	35	71	—	1.57	2.68	2.68	5.37	—	12.30	4.26	2.89	12.4	5.6	775	A+
	20+35+53+71	20	35	53	53	—	1.57	2.68	4.03	4.03	—	12.30	4.26	2.89	12.4	5.6	775	A+
	26+26+26+26	26	26	26	26	—	2.63	2.63	2.63	2.63	—	10.50	3.54	2.97	10.5	5.6	656	A+
	26+26+26+35	26	26	26	35	—	2.65	2.65	2.65	3.54	—	11.50	3.91	2.94	11.5	5.6	719	A+
	26+26+26+53	26	26	26	53	—	2.40	2.40	2.40	4.80	—	12.00	4.15	2.89	12.0	5.6	750	A+
	26+26+26+71	26	26	26	71	—	2.17	2.17	2.17	5.79	—	12.30	4.26	2.89	12.4	5.6	775	A+
	26+26+35+35	26	26	35	35	—	2.46	2.46	3.29	3.29	—	11.50	3.95	2.91	11.5	5.6	719	A+
	26+26+35+53	26	26	35	53	—	2.25	2.25	3.00	4.50	—	12.00	4.15	2.89	12.0	5.6	750	A+
	26+26+35+71	26	26	35	71	—	2.05	2.05	2.73	5.47	—	12.30	4.26	2.89	12.4	5.6	775	A+
	26+26+53+53	26	26	53	53	—	2.05	2.05	4.10	4.10	—	12.30	4.26	2.89	12.4	5.6	775	A+
	26+35+35+35	26	35	35	35	—	2.30	3.07	3.07	3.07	—	11.50	3.98	2.89	11.5	5.6	719	A+

R32 COMBINATIONS

HCKU 1200 Z5 Cooling

Combinations	Indoor Units	Combination					Rated heating capacity (kW)					Total cooling capacity (kW)	Power absorption (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy class
		Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E							
4 units	26+35+35+53	26	35	35	53	—	2.17	2.89	2.89	4.34	—	12.30	4.26	2.89	12.4	5.6	775	A+
	26+35+35+71	26	35	35	71	—	1.94	2.59	2.59	5.18	—	12.30	4.26	2.89	12.4	5.6	775	A+
	26+35+53+53	26	35	53	53	—	1.94	2.59	3.88	3.88	—	12.30	4.26	2.89	12.4	5.6	775	A+
	35+35+35+35	35	35	35	35	—	2.88	2.88	2.88	2.88	—	11.50	3.98	2.89	11.5	5.6	719	A+
	35+35+35+53	35	35	35	53	—	2.73	2.73	2.73	4.10	—	12.30	4.26	2.89	12.4	5.6	775	A+
5 units	20+20+20+20+20	20	20	20	20	20	2.10	2.10	2.10	2.10	2.10	10.50	3.52	2.98	10.5	6.1	602	A++
	20+20+20+20+26	20	20	20	20	26	2.08	2.08	2.08	2.08	2.68	11.00	3.71	2.96	11.0	6.1	631	A++
	20+20+20+20+35	20	20	20	20	35	2.01	2.01	2.01	2.01	3.45	11.50	3.92	2.94	11.5	6.1	660	A++
	20+20+20+20+53	20	20	20	20	53	1.87	1.87	1.87	1.87	4.81	12.30	4.26	2.89	12.4	6.1	711	A++
	20+20+20+20+71	20	20	20	20	71	1.66	1.66	1.66	1.66	5.68	12.30	4.26	2.89	12.4	6.1	711	A++
	20+20+20+26+26	20	20	20	26	26	2.06	2.06	2.06	2.65	2.65	11.50	3.91	2.94	11.5	6.1	660	A++
	20+20+20+26+35	20	20	20	26	35	2.00	2.00	2.00	2.57	3.43	12.00	4.11	2.92	12.0	6.1	689	A++
	20+20+20+26+53	20	20	20	26	53	1.79	1.79	1.79	2.31	4.61	12.30	4.26	2.89	12.4	6.1	711	A++
	20+20+20+26+71	20	20	20	26	71	1.59	1.59	1.59	2.05	5.47	12.30	4.26	2.89	12.4	6.1	711	A++
	20+20+20+35+35	20	20	20	35	35	1.91	1.91	1.91	3.28	3.28	12.30	4.26	2.89	12.4	6.1	711	A++
	20+20+20+35+53	20	20	20	35	53	1.69	1.69	1.69	2.89	4.34	12.30	4.26	2.89	12.4	6.1	711	A++
	20+20+20+35+71	20	20	20	35	71	1.51	1.51	1.51	2.59	5.18	12.30	4.24	2.90	12.4	6.1	711	A++
	20+20+20+53+53	20	20	20	53	53	1.51	1.51	1.51	3.88	3.88	12.30	4.24	2.90	12.4	6.1	711	A++
	20+20+26+26+26	20	20	26	26	26	2.05	2.05	2.63	2.63	2.63	12.00	4.10	2.93	12.0	6.1	689	A++
	20+20+26+26+35	20	20	26	26	35	1.96	1.96	2.52	2.52	3.35	12.30	4.24	2.90	12.4	6.1	711	A++
	20+20+26+26+53	20	20	26	26	53	1.72	1.72	2.21	2.21	4.43	12.30	4.26	2.89	12.4	6.1	711	A++
	20+20+26+26+71	20	20	26	26	71	1.54	1.54	1.98	1.98	5.27	12.30	4.26	2.89	12.4	6.1	711	A++
	20+20+26+35+35	20	20	26	35	35	1.83	1.83	2.36	3.14	3.14	12.30	4.26	2.89	12.4	6.1	711	A++
	20+20+26+35+53	20	20	26	35	53	1.62	1.62	2.09	2.78	4.18	12.30	4.26	2.89	12.4	6.1	711	A++
	20+20+26+53+53	20	20	26	53	53	1.46	1.46	1.88	3.75	3.75	12.30	4.26	2.89	12.4	6.1	711	A++
	20+20+35+35+35	20	20	35	35	35	1.72	1.72	2.95	2.95	2.95	12.30	4.26	2.89	12.4	6.1	711	A++
	20+20+35+35+53	20	20	35	35	53	1.54	1.54	2.64	2.64	3.95	12.30	4.26	2.89	12.4	6.1	711	A++
	20+26+26+26+26	20	26	26	26	26	2.00	2.57	2.57	2.57	2.57	12.30	4.23	2.91	12.4	6.1	711	A++
	20+26+26+26+35	20	26	26	26	35	1.87	2.41	2.41	2.41	3.21	12.30	4.26	2.89	12.4	6.1	711	A++
	20+26+26+26+53	20	26	26	26	53	1.66	2.13	2.13	2.13	4.26	12.30	4.26	2.89	12.4	6.1	711	A++
	20+26+26+26+71	20	26	26	26	71	1.48	1.91	1.91	1.91	5.09	12.30	4.26	2.89	12.4	6.1	711	A++
	20+26+26+35+35	20	26	26	35	35	1.76	2.26	2.26	3.01	3.01	12.30	4.26	2.89	12.4	6.1	711	A++
	20+26+26+35+53	20	26	26	35	53	1.57	2.01	2.01	2.68	4.03	12.30	4.26	2.89	12.4	6.1	711	A++
	20+26+35+35+35	20	26	35	35	35	1.66	2.13	2.84	2.84	2.84	12.30	4.26	2.89	12.4	6.1	711	A++
	20+26+35+35+53	20	26	35	35	53	1.48	1.91	2.54	2.54	3.82	12.30	4.26	2.89	12.4	6.1	711	A++
	20+35+35+35+35	20	35	35	35	35	1.57	2.68	2.68	2.68	2.68	12.30	4.26	2.89	12.4	6.1	711	A++
	26+26+26+26+26	26	26	26	26	26	2.46	2.46	2.46	2.46	2.46	12.30	4.26	2.89	12.4	6.1	711	A++
	26+26+26+26+35	26	26	26	26	35	2.31	2.31	2.31	2.31	3.08	12.30	4.26	2.89	12.4	6.1	711	A++
	26+26+26+26+53	26	26	26	26	53	2.05	2.05	2.05	2.05	4.10	12.30	4.26	2.89	12.4	6.1	711	A++
	26+26+26+35+35	26	26	26	35	35	2.17	2.17	2.17	2.89	2.89	12.30	4.26	2.89	12.4	6.1	711	A++
	26+26+26+35+53	26	26	26	35	53	1.94	1.94	1.94	2.59	3.88	12.30	4.26	2.89	12.4	6.1	711	A++
	26+26+35+35+35	26	26	35	35	35	2.05	2.05	2.73	2.73	2.73	12.30	4.26	2.89	12.4	6.1	711	A++
	26+35+35+35+35	26	35	35	35	35	1.94	2.59	2.59	2.59	2.59	12.30	4.26	2.89	12.4	6.1	711	A++

R32 COMBINATIONS

HCKU 1200 Z5 Heating

Combinations	Indoor Units	Combination					Rated heating capacity (kW)					Total heating capacity (kW)	Power absorption (kW)	COP (W/W)	Pdesignh	SCOP	Annual consumption (kWh)	Energy class
		Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	std.	std.	std.				
2 units	20+35	20	35	—	—	—	2.21	3.79	—	—	—	6.00	1.58	3.80	6.2	3.0	2893	B
	20+53	20	53	—	—	—	2.24	5.76	—	—	—	8.00	2.11	3.80	8.1	3.0	3780	B
	20+71	20	71	—	—	—	2.21	7.59	—	—	—	9.80	2.58	3.80	8.5	3.0	3967	B
	26+26	26	26	—	—	—	3.00	3.00	—	—	—	6.00	1.58	3.80	6.2	3.0	2893	B
	26+35	26	35	—	—	—	2.91	3.89	—	—	—	6.80	1.79	3.80	6.8	3.0	3173	B
	26+53	26	53	—	—	—	2.93	5.87	—	—	—	8.80	2.32	3.80	8.5	3.0	3967	B
	26+71	26	71	—	—	—	2.78	7.42	—	—	—	10.20	2.68	3.80	8.5	3.0	3967	B
	35+35	35	35	—	—	—	3.75	3.75	—	—	—	7.50	1.97	3.80	7.3	3.0	3407	B
	35+53	35	53	—	—	—	3.76	5.64	—	—	—	9.40	2.47	3.80	8.5	3.0	3967	B
	35+71	35	71	—	—	—	3.50	7.00	—	—	—	10.50	2.76	3.80	8.5	3.0	3967	B
	53+53	53	53	—	—	—	5.50	5.50	—	—	—	11.00	2.89	3.80	8.5	3.0	3967	B
	53+71	53	71	—	—	—	4.93	6.57	—	—	—	11.50	3.01	3.82	8.5	3.0	3967	B
3 units	20+20+20	20	20	20	—	—	2.50	2.50	2.50	—	—	7.50	1.95	3.85	7.3	3.2	3194	B
	20+20+26	20	20	26	—	—	2.37	2.37	3.05	—	—	7.80	2.03	3.85	7.4	3.2	3238	B
	20+20+35	20	20	35	—	—	2.29	2.29	3.92	—	—	8.50	2.21	3.85	7.5	3.2	3281	B
	20+20+53	20	20	53	—	—	2.52	2.52	6.47	—	—	11.50	2.99	3.85	8.5	3.2	3719	B
	20+20+71	20	20	71	—	—	2.21	2.21	7.58	—	—	12.00	3.12	3.85	8.5	3.2	3719	B
	20+26+26	20	26	26	—	—	2.38	3.06	3.06	—	—	8.50	2.21	3.85	7.5	3.2	3281	B
	20+26+35	20	26	35	—	—	2.50	3.21	4.29	—	—	10.00	2.60	3.85	8.0	3.2	3500	B
	20+26+53	20	26	53	—	—	2.37	3.04	6.09	—	—	11.50	2.99	3.85	8.5	3.2	3719	B
	20+26+71	20	26	71	—	—	2.10	2.70	7.20	—	—	12.00	3.12	3.85	8.5	3.2	3719	B
	20+35+35	20	35	35	—	—	2.48	4.26	4.26	—	—	11.00	2.86	3.85	8.5	3.2	3719	B
	20+35+53	20	35	53	—	—	2.18	3.73	5.59	—	—	11.50	2.99	3.85	8.5	3.2	3719	B
	20+35+71	20	35	71	—	—	1.95	3.35	6.70	—	—	12.00	3.12	3.85	8.5	3.2	3719	B
	20+53+53	20	53	53	—	—	1.95	5.02	5.02	—	—	12.00	3.12	3.85	8.5	3.2	3719	B
	26+26+26	26	26	26	—	—	3.33	3.33	3.33	—	—	10.00	2.60	3.85	8.5	3.2	3719	B
	26+26+35	26	26	35	—	—	3.30	3.30	4.40	—	—	11.00	2.86	3.85	8.5	3.2	3719	B
	26+26+53	26	26	53	—	—	2.88	2.88	5.75	—	—	11.50	2.99	3.85	8.5	3.2	3719	B
	26+26+71	26	26	71	—	—	2.57	2.57	6.86	—	—	12.00	3.12	3.85	8.5	3.2	3719	B
	26+35+35	26	35	35	—	—	3.14	4.18	4.18	—	—	11.50	2.99	3.85	8.5	3.2	3719	B
	26+35+53	26	35	53	—	—	2.77	3.69	5.54	—	—	12.00	3.12	3.85	8.5	3.2	3719	B
	26+35+71	26	35	71	—	—	2.40	3.20	6.40	—	—	12.00	3.12	3.85	8.5	3.2	3719	B
	26+53+53	26	53	53	—	—	2.40	4.80	4.80	—	—	12.00	3.12	3.85	8.5	3.2	3719	B
	35+35+35	35	35	35	—	—	3.83	3.83	3.83	—	—	11.50	2.99	3.85	8.5	3.2	3719	B
	35+35+53	35	35	53	—	—	3.43	3.43	5.14	—	—	12.00	3.12	3.85	8.5	3.2	3719	B
	35+35+71	35	35	71	—	—	3.00	3.00	6.00	—	—	12.00	3.12	3.85	8.5	3.2	3719	B
	35+53+53	35	53	53	—	—	3.00	4.50	4.50	—	—	12.00	3.12	3.85	8.5	3.2	3719	B
	35+53+71	35	53	71	—	—	2.67	4.00	5.33	—	—	12.00	3.12	3.85	8.5	3.2	3719	B
	53+53+53	53	53	53	—	—	4.00	4.00	4.00	—	—	12.00	3.09	3.88	8.5	3.2	3719	B
4 units	20+20+20+20	20	20	20	20	—	2.50	2.50	2.50	2.50	—	10.00	2.56	3.91	8.8	3.4	3624	A
	20+20+20+26	20	20	20	26	—	2.57	2.57	2.57	3.30	—	11.00	2.81	3.91	8.8	3.4	3624	A
	20+20+20+35	20	20	20	35	—	2.50	2.50	2.50	4.29	—	11.80	3.02	3.91	8.8	3.4	3624	A
	20+20+20+53	20	20	20	53	—	2.15	2.15	2.15	5.54	—	12.00	3.07	3.91	8.8	3.4	3624	A
	20+20+20+71	20	20	20	71	—	1.91	1.91	1.91	6.56	—	12.30	3.15	3.91	8.8	3.4	3624	A
	20+20+26+26	20	20	26	26	—	2.63	2.63	3.38	3.38	—	12.00	3.07	3.91	8.8	3.4	3624	A
	20+20+26+35	20	20	26	35	—	2.40	2.40	3.09	4.11	—	12.00	3.07	3.91	8.8	3.4	3624	A
	20+20+26+53	20	20	26	53	—	2.05	2.05	2.63	5.27	—	12.00	3.07	3.91	8.8	3.4	3624	A
	20+20+26+71	20	20	26	71	—	1.83	1.83	2.36	6.28	—	12.30	3.15	3.91	8.8	3.4	3624	A
	20+20+35+35	20	20	35	35	—	2.21	2.21	3.79	3.79	—	12.00	3.07	3.91	8.8	3.4	3624	A
	20+20+35+53	20	20	35	53	—	1.91	1.91	3.27	4.91	—	12.00	3.07	3.91	8.8	3.4	3624	A
	20+20+35+71	20	20	35	71	—	1.72	1.72	2.95	5.90	—	12.30	3.15	3.91	8.8	3.4	3624	A
	20+20+53+53	20	20	53	53	—	1.68	1.68	4.32	4.32	—	12.00	3.07	3.91	8.8	3.4	3624	A
	20+20+53+71	20	20	53	71	—	1.54	1.54	3.95	5.27	—	12.30	3.15	3.91	8.8	3.4	3624	A
	20+26+26+26	20	26	26	26	—	2.47	3.18	3.18	3.18	—	12.00	3.07	3.91	8.8	3.4	3624	A
	20+26+26+35	20	26	26	35	—	2.27	2.92	2.92	3.89	—	12.00	3.07	3.91	8.8	3.4	3624	A

R32 COMBINATIONS

HCKU 1200 Z5 Heating

Combinations	Indoor Units	Combination					Rated heating capacity (kW)					Total heating capacity (kW)	Power absorption (kW)	COP (W/W)	Pdesignh	SCOP	Annual consumption (kWh)	Energy class
		Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	std.	std.	std.				
4 units	20+26+26+53	20	26	26	53	—	1.95	2.51	2.51	5.02	—	12.00	3.07	3.91	8.8	3.4	3624	A
	20+26+26+71	20	26	26	71	—	1.76	2.26	2.26	6.02	—	12.30	3.15	3.91	8.8	3.4	3624	A
	20+26+35+35	20	26	35	35	—	2.10	2.70	3.60	3.60	—	12.00	3.07	3.91	8.8	3.4	3624	A
	20+26+35+53	20	26	35	53	—	1.83	2.35	3.13	4.70	—	12.00	3.07	3.91	8.8	3.4	3624	A
	20+26+35+71	20	26	35	71	—	1.66	2.13	2.84	5.68	—	12.30	3.15	3.91	8.8	3.4	3624	A
	20+26+53+53	20	26	53	53	—	1.62	2.08	4.15	4.15	—	12.00	3.07	3.91	8.8	3.4	3624	A
	20+26+53+71	20	26	53	71	—	1.48	1.91	3.82	5.09	—	12.30	3.15	3.91	8.8	3.4	3624	A
	20+35+35+35	20	35	35	35	—	1.95	3.35	3.35	3.35	—	12.00	3.07	3.91	8.8	3.4	3624	A
	20+35+35+53	20	35	35	53	—	1.71	2.94	2.94	4.41	—	12.00	3.07	3.91	8.8	3.4	3624	A
	20+35+53+53	20	35	35	71	—	1.57	2.68	2.68	5.37	—	12.30	3.15	3.91	8.8	3.4	3624	A
	20+35+53+71	20	35	53	53	—	1.53	2.62	3.93	3.93	—	12.00	3.07	3.91	8.8	3.4	3624	A
	26+26+26+26	26	26	26	26	—	3.00	3.00	3.00	3.00	—	12.00	3.07	3.91	8.8	3.4	3624	A
	26+26+26+35	26	26	26	35	—	2.77	2.77	2.77	3.69	—	12.00	3.07	3.91	8.8	3.4	3624	A
	26+26+26+53	26	26	26	53	—	2.40	2.40	2.40	4.80	—	12.00	3.07	3.91	8.8	3.4	3624	A
	26+26+26+71	26	26	26	71	—	2.17	2.17	2.17	5.79	—	12.30	3.15	3.91	8.8	3.4	3624	A
	26+26+35+35	26	26	35	35	—	2.57	2.57	3.43	3.43	—	12.00	3.07	3.91	8.8	3.4	3624	A
	26+26+35+53	26	26	35	53	—	2.25	2.25	3.00	4.50	—	12.00	3.07	3.91	8.8	3.4	3624	A
	26+26+35+71	26	26	35	71	—	2.05	2.05	2.73	5.47	—	12.30	3.15	3.91	8.8	3.4	3624	A
	26+26+53+53	26	26	53	53	—	2.00	2.00	4.00	4.00	—	12.00	3.07	3.91	8.8	3.4	3624	A
	26+35+35+35	26	35	35	35	—	2.40	3.20	3.20	3.20	—	12.00	3.07	3.91	8.8	3.4	3624	A
	26+35+35+53	26	35	35	53	—	2.12	2.82	2.82	4.24	—	12.00	3.07	3.91	8.8	3.4	3624	A
	26+35+35+71	26	35	35	71	—	1.94	2.59	2.59	5.18	—	12.30	3.15	3.91	8.8	3.4	3624	A
	26+35+53+53	26	35	53	53	—	1.89	2.53	3.79	3.79	—	12.00	3.07	3.91	8.8	3.4	3624	A
	35+35+35+35	35	35	35	35	—	3.00	3.00	3.00	3.00	—	12.00	3.07	3.91	8.8	3.4	3624	A
	35+35+35+53	35	35	35	53	—	2.67	2.67	2.67	4.00	—	12.00	3.07	3.91	8.8	3.4	3624	A
5 units	20+20+20+20+20	20	20	20	20	20	2.46	2.46	2.46	2.46	2.46	12.30	3.11	3.95	9.2	3.5	3680	A
	20+20+20+20+26	20	20	20	20	26	2.33	2.33	2.33	2.33	2.99	12.30	3.11	3.95	9.2	3.5	3680	A
	20+20+20+20+35	20	20	20	20	35	2.15	2.15	2.15	2.15	3.69	12.30	3.11	3.95	9.2	3.5	3680	A
	20+20+20+20+53	20	20	20	20	53	1.87	1.87	1.87	1.87	4.81	12.30	3.10	3.97	9.2	3.5	3680	A
	20+20+20+20+71	20	20	20	20	71	1.66	1.66	1.66	1.66	5.68	12.30	3.08	4.00	9.2	3.5	3680	A
	20+20+20+26+26	20	20	20	26	26	2.21	2.21	2.21	2.84	2.84	12.30	3.11	3.95	9.2	3.5	3680	A
	20+20+20+26+35	20	20	20	26	35	2.05	2.05	2.05	2.64	3.51	12.30	3.11	3.95	9.2	3.5	3680	A
	20+20+20+26+53	20	20	20	26	53	1.79	1.79	1.79	2.31	4.61	12.30	3.08	4.00	9.2	3.5	3680	A
	20+20+20+26+71	20	20	20	26	71	1.59	1.59	1.59	2.05	5.47	12.30	3.08	4.00	9.2	3.5	3680	A
	20+20+20+35+35	20	20	20	35	35	1.91	1.91	1.91	3.28	3.28	12.30	3.11	3.95	9.2	3.5	3680	A
	20+20+20+35+53	20	20	20	35	53	1.69	1.69	1.69	2.89	4.34	12.30	3.08	4.00	9.2	3.5	3680	A
	20+20+20+35+71	20	20	20	35	71	1.51	1.51	1.51	2.59	5.18	12.30	3.08	4.00	9.2	3.5	3680	A
	20+20+20+53+53	20	20	20	53	53	1.51	1.51	1.51	3.88	3.88	12.30	3.08	4.00	9.2	3.5	3680	A
	20+20+26+26+26	20	20	26	26	26	2.10	2.10	2.70	2.70	2.70	12.30	3.11	3.95	9.2	3.5	3680	A
	20+20+26+26+35	20	20	26	26	35	1.96	1.96	2.52	2.52	3.35	12.30	3.11	3.95	9.2	3.5	3680	A
	20+20+26+26+53	20	20	26	26	53	1.72	1.72	2.21	2.21	4.43	12.30	3.08	4.00	9.2	3.5	3680	A
	20+20+26+26+71	20	20	26	26	71	1.54	1.54	1.98	1.98	5.27	12.30	3.08	4.00	9.2	3.5	3680	A
	20+20+26+35+35	20	20	26	35	35	1.83	1.83	2.36	3.14	3.14	12.30	3.10	3.97	9.2	3.5	3680	A
	20+20+26+35+53	20	20	26	35	53	1.62	1.62	2.09	2.78	4.18	12.30	3.10	3.97	9.2	3.5	3680	A
	20+20+26+53+53	20	20	26	53	53	1.46	1.46	1.88	3.75	3.75	12.30	3.08	4.00	9.2	3.5	3680	A
	20+20+35+35+35	20	20	35	35	35	1.72	1.72	2.95	2.95	2.95	12.30	3.10	3.97	9.2	3.5	3680	A
	20+20+35+35+53	20	20	35	35	53	1.54	1.54	2.64	2.64	3.95	12.30	3.08	4.00	9.2	3.5	3680	A
	20+26+26+26+26	20	26	26	26	26	2.00	2.57	2.57	2.57	2.57	12.30	3.11	3.95	9.2	3.5	3680	A
	20+26+26+26+35	20	26	26	26	35	1.87	2.41	2.41	2.41	3.21	12.30	3.10	3.97	9.2	3.5	3680	A
	20+26+26+26+53	20	26	26	26	53	1.66	2.13	2.13	2.13	4.26	12.30	3.08	4.00	9.2	3.5	3680	A
	20+26+26+26+71	20	26	26	26	71	1.48	1.91	1.91	1.91	5.09	12.30	3.08	4.00	9.2	3.5	3680	A
	20+26+26+35+35	20	26	26	35	35	1.76	2.26	2.26	3.01	3.01	12.30	3.10	3.97	9.2	3.5	3680	A
	20+26+26+35+53	20	26	26	35	53	1.57	2.01	2.01	2.68	4.03	12.30	3.08	4.00	9.2	3.5	3680	A
	20+26+35+35+35	20	26	35	35	35	1.66	2.13	2.84	2.84	2.84	12.30	3.08	4.00	9.2	3.5	3680	A
	20+26+35+35+53	20	26	35	35	53	1.48	1.91	2.54	2.54	3.82	12.30	3.08	4.00	9.2	3.5	3680	A

R32 COMBINATIONS

HCKU 1200 Z5 Heating

Combinations	Indoor Units	Combination					Rated heating capacity (kW)					Total heating capacity (kW)	Power absorption (kW)	COP (W/W)	Pdesignh	SCOP	Annual consumption (kWh)	Energy class
		Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E							
5 units	20+35+35+35+35	20	35	35	35	35	1.57	2.68	2.68	2.68	2.68	12.30	3.08	4.00	9.2	3.5	3680	A
	26+26+26+26+26	26	26	26	26	26	2.46	2.46	2.46	2.46	2.46	12.30	3.10	3.97	9.2	3.5	3680	A
	26+26+26+26+35	26	26	26	26	35	2.31	2.31	2.31	2.31	3.08	12.30	3.10	3.97	9.2	3.5	3680	A
	26+26+26+26+53	26	26	26	26	53	2.05	2.05	2.05	2.05	4.10	12.30	3.08	4.00	9.2	3.5	3680	A
	26+26+26+35+35	26	26	26	35	35	2.17	2.17	2.17	2.89	2.89	12.30	3.08	4.00	9.2	3.5	3680	A
	26+26+26+35+53	26	26	26	35	53	1.94	1.94	1.94	2.59	3.88	12.30	3.08	4.00	9.2	3.5	3680	A
	26+26+35+35+35	26	26	35	35	35	2.05	2.05	2.73	2.73	2.73	12.30	3.08	4.00	9.2	3.5	3680	A
	26+35+35+35+35	26	35	35	35	35	1.94	2.59	2.59	2.59	2.59	12.30	3.08	4.00	9.2	3.5	3680	A



SELECTED LINE



SPECIFIC QUESTIONS, TIMELY ANSWERS



Attentive to customer **satisfaction** and feedback, Hokkaido has identified specific needs, responding in turn with dedicated ranges.

The **SELECTED LINE** includes all those products meant to satisfy a series of diversified needs, which are difficult to be filled with products from the other lines.

For those who want to air-condition rooms but do not like outdoor units. For those who want to **dehumidify and cool** spaces but prefer portable solutions.

SELECTED LINE



Air conditioners without outdoor units	54
Portable	57

AIR CONDITIONERS WITHOUT OUTDOOR UNITS



INSIDE, the Inverter heat pump and on/off without an outdoor unit, ideal for old town centres; cools in summer and heats in winter.

The classic outdoor and indoor units, which are normally divided in traditional air conditioners, are combined in a single body.

HTWIS 2350 X1

NEW

HTWIS 1650 G



Adjustable air flow

INSIDE is characterised by clean, modern lines, has a depth of only 17 cm and can be installed either at the bottom and at the top of perimeter walls.

It is possible to adjust the orientation of the air outlet flap by simply pressing the corresponding button on the machine panel.



No frost system for harsh winter climates

The condensate drip tray is constantly preheated, thus preventing water from freezing during winter operation.



Easy installation, less maintenance

With no outdoor unit, it is easily installed on any perimeter wall, even without the aid of a qualified refrigeration installer. Just drill two 162 mm diameter holes in the wall without stretching the connecting cut to outdoor units. If INSIDE is to operate only in heating mode, it can be installed without a condensate drain pipe. With no refrigerant pipes, maintenance is practically non-existent.



Silent operation

Who doesn't love a little peace and quiet? Thanks to the power used, the internal layout and the use of soundproofing materials, INSIDE achieves exceptional levels of quiet: it is difficult to distinguish it from a normal wall-mounted split unit. Because true well-being is being able to rest or sleep in a comfortable, noise-free environment.

AIR CONDITIONERS WITHOUT OUTDOOR UNITS



Remote and on-board control

INSIDE comes standard with a practical, functional remote control. The desired settings can also be made on the machine, from a convenient control panel from which you can deactivate the 'heating' function and activate LOCK to lock the keypad.

With retractable outdoor grilles, ideal for old town centres

The external swinging grilles only open when the machine is in operation. This reduces the entry of dust, noise and pollution, requires less maintenance and is even less visible from the outside. INSIDE can be installed anywhere. It is an ideal solution for buildings with particular architectural requirements, as the air conditioner can be installed even where city or condominium restrictions prevent the installation of traditional outdoor units. The external grilles can be painted with the same colour as the façade to almost completely hide its installation.

NEW

Model			HTWIS 2350 X1	HTWIS 1650 G
Type			Monobloc double duct DC-Inverter heat pump	Monobloc double duct Heat pump On-Off
Control			Panel + Remote control	
Rated capacity (T=+35°C)	Cooling	kW	2.35	1.65
Rated capacity (OverFAN)* (T=+35°C)		kW	3.10	-
Rated absorbed power		kW	0.730	0.580
Annual energy consumption		kWh/a	365	290
Seasonal energy efficiency class		626/2011 ¹	A+	A
Rated energy efficiency coefficient	Heating	EER ²	3.22	2.84
Rated capacity (T=+7°C)		kW	2.36	1.70
Rated capacity (OverFAN)* (T=+7°C)		kW	3.05	-
Rated absorbed power		kW	0.720	0.545
Seasonal energy efficiency class (average season)		626/2011 ¹	A	A
Rated energy efficiency coefficient		COP ²	3.28	3.12
Operating limit (indoor environment)	Cooling	°C	18~32	18~32
	Heating	°C	5~25	5~27
Operating limit (outdoor environment)	Cooling	°C	-5~43	-5~43
	Heating	°C	-10~18	-10~24
Dehumidifying capacity		L/h	1.10	0.80
Sound pressure level (Hi/Lo)		dB(A)	41-27:	38-29:
Sound power level		dB(A)	58	53
Electrical data				
Power supply	Ph/V/Hz		1 / 220~240 / 50	1 / 220~240 / 50
MAX absorbed current	A		3.4	3.0
Refrigerant circuit				
Refrigerant (GWP) ³			R410A (2088)	R410A (2088)
Quantity	Kg		0.62	0.48
Tons of CO2 equivalent			1.295	1.002
Fans				
Indoor fan speed	No.		3	3
Outdoor fan speed	No.		3	3
Air flow at Max indoor/outdoor speed	m³/h		400/480	360/430
Air flow at Medium indoor/outdoor speed	m³/h		320/390	300/360
Air flow at Minimum indoor/outdoor speed	m³/h		270/340	240/320
Installation				
Wall hole diameter	mm		162	162
Wall hole distance	mm		293	293
Specifications				
Dimensions	L x H x D	mm	1030 x 555 x 170	1030 x 555 x 170
Net weight		kg	41	46
Test conditions			Room temperature	
Cooling checks			DB 27°C - WB 19°C	DB 35°C - WB 24°C
Heating checks			DB 20°C - WB 15°C	DB 7°C - WB 6°C

* With DUAL-POWER function on.

1 EU Delegated Regulation No.626/2011 on the new labelling indicating the energy consumption of air conditioners. 2 Value measured according to harmonised standard EN14511. 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.



SELECTED LINE

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PORTABLE

For cooling, dehumidification, ventilation

HMCM 90 P

The Hokkaido portable monobloc brings immediate well-being into your home thanks to the improved dehumidified and filtered air quality.

Very compact design

This portable unit stands out for its practicality: it works with a simple electrical connection and its compact design makes it ideal for even the smallest spaces. It is easy to move around in any environment, thanks to its multi-directional wheels and practical side handles.

Condensate management system

- In cooling mode with automatic vaporization: the condensate evaporates to the outside.
- In dehumidification mode with continuous drainage: the corresponding drain pipe is connected to one of the two outlets at the back.

Available features

- Sleep: gradually increases the set temperature and guarantees low noise for a better night's sleep.
- Eco-design: during stand-by, the machine automatically goes into power saving mode, consuming only 0.5 W.
- Auto-restart: if the unit is switched off, the previously set functions are restored.

Characteristics

- Compact
 - Easy filter cleaning
 - Built-in room temperature sensor
 - Multi-directional wheels
- On/Off timer to set the power off and on at the desired time
 - Sleep function
 - Auto-swing function
 - Float included



Model			HMCM 90 P
Power		Ph/V/Hz	1/220-240/50
Rated heating ¹	Cooling	W	2.60
Rated absorbed power ¹		W	1.00
Rated energy efficiency index ¹		W	2.60
Energy efficiency class		-	A
Sound pressure level (Hi-Lo)		dB(A)	51.9-46.9
Sound power level		dB(A)	63
Treated air flow		m³/h	295
Refrigerant	Type/qty.	kg	R290/0.17
Global warming potential	GWP	kg CO2 eq.	3
Tons of CO2 equivalent		kg	0.51
Dimensions	LxDxH	mm	355x345x703
Net weight		kg	25.3

1. Value measured according to harmonised standard EN1451: 35° C DB - 28.3° C WB.



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.

PROJECT VRF R410A FULL DC INVERTER

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Line up	60
XRV PLUS MINI	65
Heat pump	
XRV INDIVIDUAL	68
Heat pump	
XRV PREMIUM MODULAR	72
Heat pump - 2 pipes	
XRV PLUS HEAT RECOVERY	77
Heat recovery - 3 pipes	
PREMIUM INDOOR UNITS	87
P series	
ENTHALPY HEAT RECOVERY UNIT	94
EEV KIT	96

PROJECT VRF R410A FULL DC INVERTER - LINE UP
.....

XRV MULTI SYSTEM
Outdoor heat pump units



XRV PLUS MINI



2.5HP
single phase
HCNU 806 XRV



3.2HP
single phase
HCNU 1056 XRV

4.5HP
single phase
HCNU 1206 XRV



5HP
single phase
HCNU 1406 XRV

6HP
single phase
HCNU 1606 XRV



7HP
three-phase
HCYU 2006 XRV

8HP
three-phase
HCYU 2246 XRV

9HP
three-phase
HCYU 2606 XRV

10HP
three-phase
HCYU 2806 XRV

12HP
three-phase
HCYU 3356 XRV

Performance and consumption are based on the following test conditions:
Cooling: O.T. 35° C DB, 24° C WB - I.T. 27° C DB, 19° C WB (ISO 5151 Standard).
Heating: O.T. 7° C DB, 6° C WB - I.T. 20° C DB, 15° C WB (ISO 5151 Standard).

PROJECT VRF R410A FULL DC INVERTER - LINE UP
.....

XRV MULTI SYSTEM
Individual outdoor heat pump units



XRV INDIVIDUAL



14HP three-phase HCYUM 4006 XRV-I	16HP three-phase HCYUM 4506 XRV-I	18HP three-phase HCYUM 5006 XRV-I
20HP three-phase HCYUM 5606 XRV-I	22HP three-phase HCYUM 6156 XRV-I	



24HP three-phase HCYUM 6706 XRV-I	26HP three-phase HCYUM 7306 XRV-I	28HP three-phase HCYUM 7856 XRV-I
30HP three-phase HCYUM 8506 XRV-I	32HP three-phase HCYUM 9006 XRV-I	

Performance and consumption are based on the following test conditions:
Cooling: O.T. 35° C DB, 24° C WB - I.T. 27° C DB, 19° C WB (ISO 5151 Standard).
Heating: O.T. 7° C DB, 6° C WB - I.T. 20° C DB, 15° C WB (ISO 5151 Standard).

PROJECT VRF R410A FULL DC INVERTER - LINE UP

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XRV MULTI SYSTEM

Outdoor heat pump units - 2 pipes

XRV PREMIUM MODULAR



8~12HP



14~22HP

8HP	10HP	12HP	14HP
HCSU 2525 XRV-P	HCSU 2805 XRV-P	HCSU 3355 XRV-P	HCSU 4005 XRV-P
16HP	18HP	20HP	22HP
HCSU 4505 XRV-P	HCSU 5005 XRV-P	HCSU 5605 XRV-P	HCSU 6155 XRV-P

COMBINATIONS				
24HP	26HP	28HP	30HP	32HP
12 + 12	10 + 16	10 + 18	10 + 20	10 + 22
HCSU 3355 XRV-P HCSU 3355 XRV-P	HCSU 2805 XRV-P HCSU 4505 XRV-P	HCSU 2805 XRV-P HCSU 5005 XRV-P	HCSU 2805 XRV-P HCSU 5605 XRV-P	HCSU 2805 XRV-P HCSU 6155 XRV-P
34HP	36HP	38HP	40HP	42HP
12 + 22	18 + 18	16 + 22	18 + 22	20 + 22
HCSU 3355 XRV-P HCSU 6155 XRV-P	HCSU 5005 XRV-P HCSU 5005 XRV-P	HCSU 4505 XRV-P HCSU 6155 XRV-P	HCSU 5005 XRV-P HCSU 6155 XRV-P	HCSU 5605 XRV-P HCSU 6155 XRV-P
44HP	46HP	48HP	50HP	52HP
22 + 22	12 + 12 + 22	10 + 16 + 22	10 + 18 + 22	10 + 20 + 22
HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 3355 XRV-P HCSU 3355 XRV-P HCSU 6155 XRV-P	HCSU 2805 XRV-P HCSU 4505 XRV-P HCSU 6155 XRV-P	HCSU 2805 XRV-P HCSU 5005 XRV-P HCSU 6155 XRV-P	HCSU 2805 XRV-P HCSU 5605 XRV-P HCSU 6155 XRV-P
54HP	56HP	58HP	60HP	62HP
10 + 22 + 22	12 + 22 + 22	18 + 18 + 22	16 + 22 + 22	18 + 22 + 22
HCSU 2805 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 3355 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 5005 XRV-P HCSU 5005 XRV-P HCSU 6155 XRV-P	HCSU 4505 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 5005 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P
64HP	66HP	68HP	70HP	72HP
20 + 22 + 22	22 + 22 + 22	12 + 12 + 22 + 22	10 + 16 + 22 + 22	10 + 18 + 22 + 22
HCSU 5605 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 6155 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 3355 XRV-P HCSU 3355 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 2805 XRV-P HCSU 4505 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 2805 XRV-P HCSU 5005 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P
74HP	76HP	78HP	80HP	82HP
10 + 20 + 22 + 22	10 + 22 + 22 + 22	12 + 22 + 22 + 22	18 + 18 + 22 + 22	16 + 22 + 22 + 22
HCSU 2805 XRV-P HCSU 5605 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 2805 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 3355 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 5005 XRV-P HCSU 5005 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 4505 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P
84HP	86HP	88HP		
18 + 22 + 22 + 22	20 + 22 + 22 + 22	22 + 22 + 22 + 22		
HCSU 5005 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 5605 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 6155 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P		

PROJECT VRF R410A FULL DC INVERTER - LINE UP

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XRV MULTI SYSTEM

Outdoor heat recovery units - 3 pipes

XRV PLUS HEAT RECOVERY



8~12HP



14~18HP

8HP HCSRU 2526 XRV-R	10HP HCSRU 2806 XRV-R	12HP HCSRU 3356 XRV-R	14HP HCSRU 4006 XRV-R
16HP HCSRU 4506 XRV-R	18HP HCSRU 5006 XRV-R		

COMBINATIONS				
20HP 10+10	22HP 10+12	24HP 10+14	26HP 12+14	28HP 12+16
HCSRU 2806 XRV-R HCSRU 2806 XRV-R	HCSRU 2806 XRV-R HCSRU 3356 XRV-R	HCSRU 2806 XRV-R HCSRU 4006 XRV-R	HCSRU 3356 XRV-R HCSRU 4006 XRV-R	HCSRU 3356 XRV-R HCSRU 4506 XRV-R
30HP 12+18	32HP 16+16	34HP 16+18	36HP 18+18	38HP 12+12+14
HCSRU 3356 XRV-R HCSRU 5006 XRV-R	HCSRU 4506 XRV-R HCSRU 4506 XRV-R	HCSRU 4506 XRV-R HCSRU 5006 XRV-R	HCSRU 5006 XRV-R HCSRU 5006 XRV-R	HCSRU 3356 XRV-R HCSRU 3356 XRV-R HCSRU 4006 XRV-R
40HP 12+12+16	42HP 12+14+16	44HP 12+16+16	46HP 14+16+16	48HP 16+16+16
HCSRU 3356 XRV-R HCSRU 3356 XRV-R HCSRU 4506 XRV-R	HCSRU 3356 XRV-R HCSRU 4006 XRV-R HCSRU 4506 XRV-R	HCSRU 3356 XRV-R HCSRU 4506 XRV-R HCSRU 4506 XRV-R	HCSRU 4006 XRV-R HCSRU 4506 XRV-R HCSRU 4506 XRV-R	HCSRU 4506 XRV-R HCSRU 4506 XRV-R HCSRU 4506 XRV-R
50HP 16+16+18	52HP 16+18+18	54HP 18+18+18		
HCSRU 4506 XRV-R HCSRU 4506 XRV-R HCSRU 5006 XRV-R	HCSRU 4506 XRV-R HCSRU 5006 XRV-R HCSRU 5006 XRV-R	HCSRU 5006 XRV-R HCSRU 5006 XRV-R HCSRU 5006 XRV-R		

HYDROMODULE



HHNMS 140 XRV-R
single phase

FLOW CONTROLLERS

NEW

HPFD 1-8 XRV-R	HPFD 4-20 XRV-R	HPFD 6-30 XRV-R
HPFD 8-40 XRV-R	HPFD 10-47 XRV-R	HPFD 12-47 XRV-R

PROJECT VRF R410A FULL DC INVERTER

.....

XRV MULTI SYSTEM

NEW



XRV PLUS MINI

NEW



XRV INDIVIDUAL

NEW



XRV PLUS
HEAT RECOVERY



XRV PREMIUM
MODULAR

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 and in heat recovery. 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.

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, which has the following average values: cooling from -5° C to +43° C, heating from -20° C to +24° C.

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.

DC FAN MOTOR

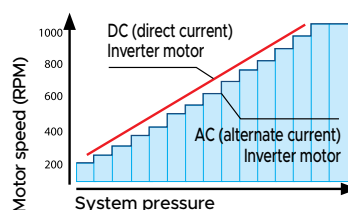
The use of the DC Inverter fan motor ensures energy savings during partial loads, as it adjusts the fan speed and helps make the unit more silent. The fan and outlet grille design guarantees increased air flow, thus resulting in low noise.



DC Inverter compressor



DC Inverter fan motor



NEW

XRV PLUS MINI

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Heat pump

66

HOKKAIDO

PROJECT VRF R410A FULL DC INVERTER

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XRV PLUS MINI Heat pump

NEW



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	9.45	9.45	15.50	15.50	15.50
Refrigerant circuit/features							
Refrigerant (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)	3.80 (7.934)
DC Inverter compressor		no. / type	1/ Rotary DC inverter				
Diameter refrigerant pipes	Liquid	Ø mm (inch)	9.53 (3/8")	9.53 (3/8")	9.53 (3/8")	9.53 (3/8")	9.53 (3/8")
	Gas	Ø 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 pressure level at 1 m	max	dB(A)	54	54	56	56	56
Sound power level	max	dB(A)	65	68	70	71	71
Fan air flow	max	m³/h	3700	5200	5000	5400	5200
Operating limits (outside temperature)	Cooling	°C	-5~-55	-5~-55	-5~-55	-5~-55	-5~-55
	Heating	°C	-15~-27	-15~-27	-15~-27	-15~-27	-15~-27
Max. connectable I.U.		no.	4	6	7	8	9
Capacity of connectable indoor units		%	50 - 130	50 - 130	50 - 130	50 - 130	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.

PROJECT VRF R410A FULL DC INVERTER

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XRV PLUS MINI Heat pump

NEW



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

Auto-addressing of indoor units.

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	28.50	33.50
Rated absorbed power		kW	5.20	6.77	10.04	12.23	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	28.50	33.50
Rated absorbed power		kW	4.43	5.42	6.86	7.68	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	12.00	12.40	15.00	18.40	19.60
Refrigerant circuit / features							
Refrigerant (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)
DC Inverter compressor		no. / type	1/ Rotary DC inverter			1/ Rotary DC inverter	
Pipe diameter	Liquid	Ø mm (inch)	9.53 (3/8")				12.7 (1/2")
	Gas	Ø mm (inch)	19.1 (3/4")		22.2 (7/8")		
Product Specifications							
Dimensions	LxHxD	mm	1120x1558x528				
Net weight		Kg	143	143	144	144	157
Sound pressure level at 1 m	max	dB(A)	58		59	60	61
Sound power level	max	dB(A)	78		78		81
Fan air flow	max	m³/h	9000	9000	10000	11000	11300
Operating limits (outside temperature)	Cooling	°C	-5~48				
	Heating	°C	-20~24				
Max. connectable I.U.		no.	10	13	15	16	20
Capacity of connected 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.



NEW

XRV INDIVIDUAL

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Heat pump

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HOKKAIDO

PROJECT VRF R410A FULL DC INVERTER

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XRV INDIVIDUAL Heat pump

NEW



HCYUM 4006 XRV-I
HCYUM 4506 XRV-I
HCYUM 5006 XRV-I

HCYUM 5606 XRV-I
HCYUM 6156 XRV-I

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 90 kW for simplified installation without the need for modular units.

Elegant, compact design.

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

Broad operating range:

- cooling -5° C ~ +48° C;
- heating -23° 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	25.80	25.80	26.20	35.00	37.00
Refrigerant circuit / features							
Refrigerant (GWP)			R410A (2088)				
Quantity refrigerant pre-load (tons of CO2 equivalent)		Kg	13 (27.144)	13 (27.144)	13 (27.144)	17 (35.496)	17 (35.496)
DC Inverter compressor		no. / type	1 / Scroll DC Inverter			2 / Scroll DC Inverter	
Pipe diameter	Liquid	Ø mm (inch)	15.9 (5/8")			19.1 (3/4")	
	Gas	Ø mm (inch)	31.8 (1"1/4)				
Product Specifications							
Dimensions	LxHxD	mm	1340x1635x850			1340x1635x825	
Net weight		Kg	277	277	295	344	344
Sound pressure level at 1 m	max	dB(A)	62	65		66	66
Sound power level	max	dB(A)	85	88			
Fan air flow	max	m³/h	13000	13000	13000	17000	17000
Operating limits (outside temperature)	Cooling	°C	-5~48				
	Heating	°C	-23~24				
Max. connectable I.U.		no.	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.

PROJECT VRF R410A FULL DC INVERTER

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XRV INDIVIDUAL Heat pump

NEW



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

HCYUM 8506 XRV-I
HCYUM 9006 XRV-I

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 90 kW for simplified installation without the need for modular units.

Elegant, compact design.

Splitting and height difference lengths

Model	HCYUM 6706 XRV-I	HCYUM 7306 XRV-I	HCYUM 7856 XRV-I	HCYUM 8506 XRV-I	HCYUM 9006 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

Broad operating range:

- cooling -5° C ~ +48° C;
- heating -23° C ~ +24° C.

Auto-addressing of indoor units.

Maximum number of connectable indoor units is 53.

Model			HCYUM 6706 XRV-I	HCYUM 7306 XRV-I	HCYUM 7856 XRV-I	HCYUM 8506 XRV-I	HCYUM 9006 XRV-I
Power		HP	24	26	28	30	32
Rated capacity ¹	Cooling	kW	67.00	73.00	78.50	85.00	90.00
Rated absorbed power		kW	21.60	21.60	24.90	28.30	32.10
Energy efficiency coefficient (rated)		EER	3.10	3.40	3.15	3.00	2.80
Rated capacity ²	Heating	kW	67.00	73.00	78.50	85.00	90.00
Rated absorbed power		kW	16.80	18.10	21.80	24.30	26.50
Energy performance coefficient (rated)		COP	4.00	4.05	3.60	3.50	3.40
Electrical data							
Power supply		Ph-V-Hz	3-380~415V50Hz				
Maximum current		A	41.40	39.80	43.80	50.00	52.00
Refrigerant circuit / features							
Refrigerant (GWP)			R410A (2088)				
Quantity refrigerant pre-load (tons of CO2 equivalent)		Kg	22 (45.936)	22 (45.936)	22 (45.936)	25 (52.200)	25 (52.200)
DC Inverter compressor		no. / type	2 / Scroll DC Inverter				
Pipe diameter	Liquid	Ø mm (inch)	19.1 (3/4")	22.2 (7/8")			38.1 (1 1/2")
	Gas	Ø mm (inch)	31.8 (1 1/4")				
Product specifications							
Dimensions	LxHxD	mm	1730x1830x850				
Net weight		Kg	407	429	429	475	475
Sound pressure level at 1 m	max	dB(A)	67	68			90
Sound power level	max	dB(A)	89	90			
Fan air flow	max	m³/h	25000	25000	25000	24000	24000
Operating limits (outside temperature)	Cooling	°C	-5~48				
	Heating	°C	-23~24				
Max. connectable I.U.		no.	39	43	46	50	53
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.





XRV PREMIUM MODULAR

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Heat pump - 2 pipes

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Combinations

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HOKKAIDO

PROJECT VRF R410A FULL DC INVERTER

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XRV PREMIUM MODULAR

Heat pump - 2 pipes



FULL DC INVERTER

HCSU 2525 XRV-P
HCSU 2805 XRV-P
HCSU 3355 XRV-P

FULL DC INVERTER

HCSU 4005 XRV-P
HCSU 4505 XRV-P
HCSU 5005 XRV-P
HCSU 5605 XRV-P
HCSU 6155 XRV-P

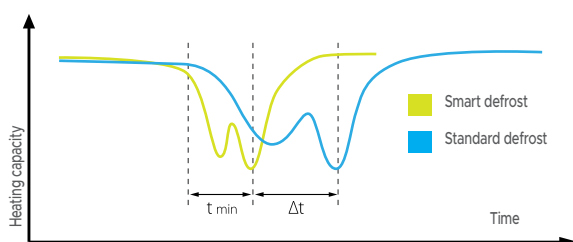
The range is characterised by 8 basic modules: 8, 10, 12, 14, 16, 18, 20 and 22HP. Wide range of available power: from 25.2 to 246.0 kW.

Fan design with the sharp-edged blade reduces airflow resistance. The outdoor units and the exchangers inside them are made with anti-corrosive treatments.

- COP values up to 5.09 (mod. 8HP)
- EER values up to 4.03 (mod. 8HP)

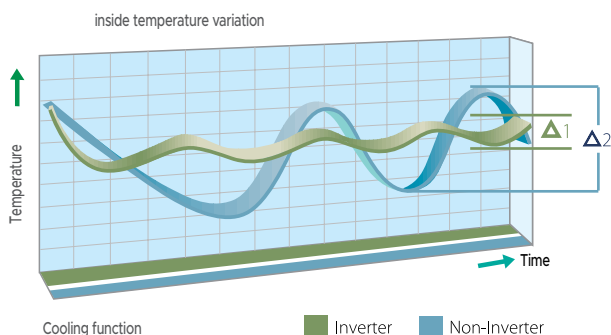
Smart defrost

Smart defrost technology calculates the time required for defrosting based on the current system conditions, eliminating heat losses from unnecessary defrosting. A special defrost valve reduces the time required for defrosting to a minimum of four minutes.

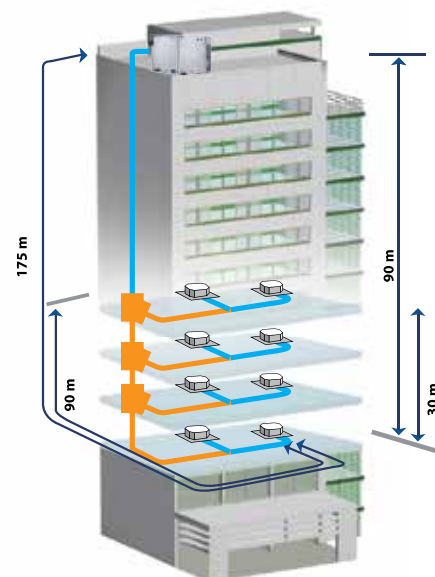


Fast cooling and heating

The DC Inverter compressor quickly reaches full capacity, ensuring faster cooling and heating with lower temperature variation during cooling/heating operations.



Splitting and height difference lengths



The XRV PREMIUM Modular series can connect up to 64 indoor units. Total length of system piping: 1000 m

Maximum distance between O.U. and the farthest I.U. = 175 m (equivalent 200 m)

Maximum distance from the first branch pipe to the farthest I.U. = 90 m

Maximum height difference between O.U. (up high) and I.U. = 90 m

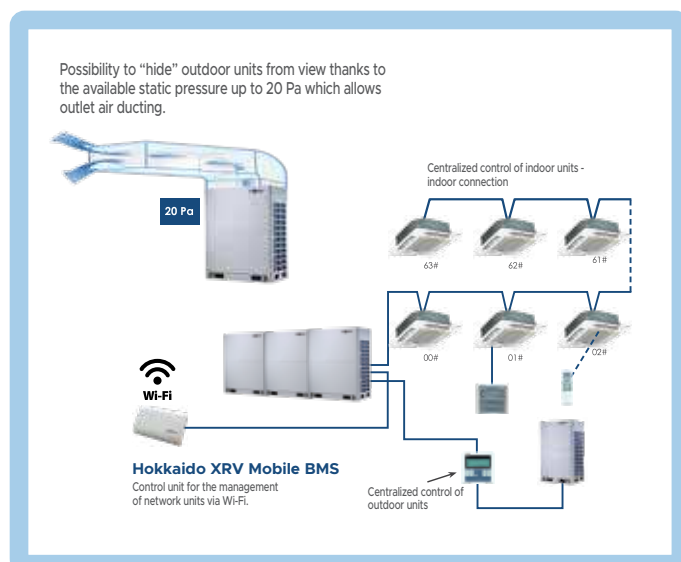
Maximum height difference between O.U. (down low) and I.U. = 110 m

Maximum height difference between I.U. = 30 m

Installation and operation

- Wide range of external operating temperatures: heating - 20° C / 24° C; cooling - 5° C / 43° C.
- Intelligent operating logic in modular combination with rotation and distribution of operating hours between the O.U.
- Backup function in modular combination.
- Silent operation and auto-addressing of the O.U.

Network wiring diagram



PROJECT VRF R410A FULL DC INVERTER

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XRV PREMIUM MODULAR

Heat pump - 2 pipes



Model / Combination			HCSU 2525 XRV-P	HCSU 2805 XRV-P	HCSU 3355 XRV-P	HCSU 4005 XRV-P	HCSU 4505 XRV-P	HCSU 5005 XRV-P	HCSU 5605 XRV-P
Power			8	10	12	14	16	18	20
Rated capacity (1)	Cooling	HP	25.20	28.00	33.50	40.00	45.00	50.00	56.00
		kW	6.25	7.49	8.91	11.66	13.64	14.71	16.47
		EER	4.03	3.74	3.76	3.43	3.30	3.40	3.40
		%	211.4	211	199	194.6	192.6	194.6	194.2
Rated capacity (2)	Heating	kW	27.00	31.50	37.50	40.00	45.00	50.00	56.00
		kW	5.30	6.89	8.91	9.83	11.69	12.50	14.00
		COP	5.09	4.57	4.21	4.07	3.85	4.00	4.00
		%	133.8	133.8	133.4	135.4	135.4	133.8	133
Seasonal energy efficiency (ηs,c) average									
Electrical data									
Power supply		Ph-V-Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz
Maximum current		A	20.00	21.00	23.00	27.30	29.90	34.40	41.20
Refrigerant circuit / features									
Refrigerant		type (GWP)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
Quantity refrigerant pre-load (tons of CO2 equivalent)(3)		Kg (t)	9 (18.792)	9 (18.792)	11 (22.968)	13 (27.144)	13 (27.144)	13 (27.144)	16 (33.408)
DC Inverter compressor		no. / type	1/Scroll DC Inverter	1/Scroll DC Inverter	1/Scroll DC Inverter	2/Scroll DC Inverter	2/Scroll DC Inverter	2/Scroll DC Inverter	2/Scroll DC Inverter
Diameter refrigerant pipes(4)	Liquid	Ø mm (inch)	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")
	Gas		25.4 (1")	25.4 (1")	25.4 (1")	31.8 (1 1/4)	31.8 (1 1/4)	31.8 (1 1/4)	31.8 (1 1/4)
	Parallel oil		6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
Max pipe length		m	1000	1000	1000	1000	1000	1000	1000
Max height difference between indoor units		m	30	30	30	30	30	30	30
Max height difference between outdoor and indoor units		up-down OU	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110
Product Specifications									
Dimensions (5)		LxHxD	mm	990x1635x790	990x1635x790	990x1635x790	1340x1635x790	1340x1635x790	1340x1635x790
Net weight		Kg	219	219	237	297	297	305	340
Sound pressure level at 1 m		max	dB(A)	59	63	62	66	66	66
Sound power level		max	dB(A)	79	83	82	88	88	88
Fan air flow		max	m³/h	12000	12000	12000	14000	14000	16000
Operating limit (outside temperature)	Cooling	°C / DB	-5 / 43	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C
	Heating	°C / WB	-20 / 24	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C
Max. connectable IU		no.	13	16	20	23	26	29	33
Capacity of connectable indoor units		%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

Model / Combination			HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 3355 XRV-P HCSU 3355 XRV-P HCSU 6155 XRV-P	HCSU 2805 XRV-P HCSU 4505 XRV-P HCSU 6155 XRV-P	HCSU 2805 XRV-P HCSU 5005 XRV-P HCSU 6155 XRV-P	HCSU 2805 XRV-P HCSU 5605 XRV-P HCSU 6155 XRV-P	HCSU 2805 XRV-P HCSU 6155 XRV-P	HCSU 3355 XRV-P HCSU 6155 XRV-P	
Power			HP	44 (22+22)	46 (12+12+22)	48 (10+16+22)	50 (10+18+22)	52 (10+20+22)	54 (10+22+22)	56 (12+22+22)
Rated capacity (1)		Cooling	kW	123.00	128.50	134.50	139.50	145.50	151.00	156.50
Rated absorbed power			kW	39.68	37.66	40.97	42.04	43.80	47.17	48.59
Rated energy efficiency coefficient			EER	3.10	3.41	3.28	3.32	3.32	3.20	3.22
Seasonal energy efficiency (ηs,c)			%	187.8	199	197.1	197.8	197.7	195.5	191.5
Rated capacity (2)		Heating	kW	123.00	136.50	138.00	143.00	149.00	154.50	160.50
Rated absorbed power			kW	32.36	34.00	34.76	35.57	37.07	39.25	41.27
Rated energy performance coefficient			COP	3.80	4.01	3.97	4.02	4.02	3.94	3.89
Seasonal energy efficiency (ηs,c) average			%	133	133.4	134.1	133.5	133.3	133.3	133.1
Electrical data										
Power supply			Ph-V-Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz
Maximum current			A	89.80	90.90	95.80	100.30	107.10	110.80	112.80
Refrigerant circuit / features										
Refrigerant			type (GWP)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
Quantity refrigerant pre-load (tons of CO2 equivalent)(3)			Kg (t)	32 (66.816)	38 (79.344)	38 (79.344)	38 (79.344)	41 (85.608)	41 (85.608)	43 (89.784)
DC Inverter compressor			no. / type	4/Scroll DC Inverter	4/Scroll DC Inverter	5/Scroll DC Inverter	5/Scroll DC Inverter	5/Scroll DC Inverter	5/Scroll DC Inverter	5/Scroll DC Inverter
Diameter refrigerant pipes(4)		Liquid	Ø mm (inch)	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")
		Gas	Ø mm (inch)	38.1 (1 1/2")	38.1 (1 1/2")	38.1 (1 1/2")	38.1 (1 1/2")	41.3 (1 5/8")	41.3 (1 5/8")	41.3 (1 5/8")
		Parallel oil	Ø mm (inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
Max pipe length			m	1000	1000	1000	1000	1000	1000	1000
Max height difference between indoor units			m	30	30	30	30	30	30	30
Max height difference between outdoor and indoor units			up-down OU	m	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110
Product Specifications										
Dimensions (5)		LxHxD	mm	2780x1635x790	3520x1635x790	3870x1635x790	3870x1635x790	3870x1635x790	3870x1635x790	3870x1635x790
Net weight			Kg	680	814	856	864	899	899	917
Sound pressure level at 1 m		max	dB(A)	69	69	70	70	70	70	70
Sound power level		max	dB(A)	91	90	92	92	92	92	92
Fan air flow			max	m³/h	32000	40000	42000	44000	44000	44000
Operating limit (outside temperature)			Cooling	°C / DB	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C
			Heating	°C / WB	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C
Max. connectable I.U.			no.	64	64	64	64	64	64	64
Capacity of connectable indoor units			%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	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° 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) Refer to the label inside the unit to calculate the additional refrigerant charge.
(4) When several outdoor units are paired the diameters indicated refer to the section up to the first branch, with a length equivalent or less than 90m.
(5) Space between the paired units = 100 mm.

PROJECT VRF R410A FULL DC INVERTER

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XRV PREMIUM MODULAR

Heat pump - 2 pipes



HCSU 6155 XRV-P	HCSU 3355 XRV-P HCSU 3355 XRV-P	HCSU 2805 XRV-P HCSU 4505 XRV-P	HCSU 2805 XRV-P HCSU 5005 XRV-P	HCSU 2805 XRV-P HCSU 5605 XRV-P	HCSU 2805 XRV-P HCSU 6155 XRV-P	HCSU 3355 XRV-P HCSU 6155 XRV-P	HCSU 5005 XRV-P HCSU 5005 XRV-P	HCSU 4505 XRV-P HCSU 6155 XRV-P	HCSU 5005 XRV-P HCSU 6155 XRV-P	HCSU 5605 XRV-P HCSU 6155 XRV-P
22	24 (12+12)	26 (10+16)	28 (10+18)	30 (10+20)	32 (10+22)	34 (12+22)	36 (18+18)	38 (16+22)	40 (18+22)	42 (20+22)
61.50	67.00	73.00	78.00	84.00	89.50	95.00	100.00	106.50	111.50	117.50
19.84	17.82	21.13	22.20	23.96	27.33	28.75	29.42	33.48	34.55	36.31
3.10	3.76	3.45	3.51	3.51	3.27	3.30	3.40	3.18	3.23	3.24
187.8	199	201.8	202.8	202.6	199.4	193.4	194.6	190.2	191.2	191
61.50	75.00	76.50	81.50	87.50	93.00	99.00	100.00	106.50	111.50	117.50
16.18	17.82	18.58	19.39	20.89	23.07	25.09	25.00	27.87	28.68	30.18
3.80	4.21	4.12	4.20	4.19	4.03	3.95	4.00	3.82	3.89	3.89
133	133.4	134.6	133.8	133.4	133.4	133.2	133.8	134.2	133.4	133
3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz
44.90	46.00	50.90	55.40	62.20	65.90	67.90	68.80	74.80	79.30	86.10
R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
16 (33.408)	22 (45.936)	22 (45.936)	23 (48.024)	25 (52.200)	25 (52.200)	27 (56.376)	26 (54.288)	29 (60.552)	29 (60.552)	32 (66.816)
2/Scroll DC Inverter	2/Scroll DC Inverter	3/Scroll DC Inverter	3/Scroll DC Inverter	3/Scroll DC Inverter	3/Scroll DC Inverter	3/Scroll DC Inverter	4/Scroll DC Inverter	4/Scroll DC Inverter	4/Scroll DC Inverter	4/Scroll DC Inverter
15.9 (5/8")	15.9 (5/8")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")
31.8 (1"1/4)	28.6 (1"1/8)	31.8 (1"1/4")	31.8 (1"1/4")	31.8 (1"1/4")	31.8 (1"1/4")	31.8 (1"1/4")	38.1 (1"1/2")	38.1 (1"1/2")	38.1 (1"1/2")	38.1 (1"1/2")
6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
30	30	30	30	30	30	30	30	30	30	30
90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110
1340x1635x790	2080x1635x790	2430x1635x790	2430x1635x790	2430x1635x790	2430x1635x790	2430x1635x790	2780x1635x790	2780x1635x790	2780x1635x790	2780x1635x790
340	474	516	524	559	559	577	610	637	645	680
66	65	68	68	68	68	67	69	69	69	69
88	85	89	89	89	89	89	91	91	91	91
16000	24000	26000	28000	28000	28000	28000	32000	30000	32000	32000
-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C
-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C
36	39	43	46	50	53	56	59	63	64	64
50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

HCSU 5005 XRV-P HCSU 5005 XRV-P HCSU 6155 XRV-P	HCSU 4505 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 5005 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 5605 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 6155 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 3355 XRV-P HCSU 3355 XRV-P HCSU 6155 XRV-P	HCSU 2805 XRV-P HCSU 4505 XRV-P HCSU 6155 XRV-P	HCSU 2805 XRV-P HCSU 5005 XRV-P HCSU 6155 XRV-P	HCSU 2805 XRV-P HCSU 5605 XRV-P HCSU 6155 XRV-P	HCSU 2805 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 3355 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P
58 (18+18+22)	60 (16+22+22)	62 (18+22+22)	64 (20+22+22)	66 (22+22+22)	68 (12+12+22+22)	70 (10+16+22+22)	72 (10+18+22+22)	74 (10+20+22+22)	76 (10+22+22+22)	78 (12+22+22+22)
161.50	168.00	173.00	179.00	184.50	190.00	196.00	201.00	207.00	212.50	218.00
49.26	53.32	54.39	56.15	59.52	57.50	60.81	61.88	63.64	67.01	68.43
3.28	3.15	3.18	3.19	3.10	3.30	3.22	3.25	3.25	3.17	3.19
192.3	189.4	190.1	189.9	187.8	193.4	194.8	195.3	195.2	193.6	190.6
161.50	168.00	173.00	179.00	184.50	190.00	199.50	204.50	210.50	216.50	222.00
41.18	44.05	44.86	46.36	48.54	50.18	50.94	51.75	53.25	55.43	57.45
3.92	3.81	3.86	3.86	3.80	3.95	3.92	3.95	3.95	3.90	3.86
133.5	133.8	133.3	133	133	133.2	133.8	133.4	133.2	133.2	133.1
3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz
113.70	119.70	124.20	131.00	134.70	135.80	140.70	145.20	152.00	155.70	157.70
R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
42 (87.696)	45 (93.960)	45 (93.960)	48 (100.224)	48 (100.224)	54 (112.752)	54 (112.752)	54 (112.752)	57 (119.016)	57 (119.016)	59 (123.192)
6/Scroll DC Inverter	6/Scroll DC Inverter	6/Scroll DC Inverter	6/Scroll DC Inverter	6/Scroll DC Inverter	6/Scroll DC Inverter	7/Scroll DC Inverter	7/Scroll DC Inverter	7/Scroll DC Inverter	7/Scroll DC Inverter	7/Scroll DC Inverter
22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	25.4 (1")	25.4 (1")	25.4 (1")	25.4 (1")	25.4 (1")	25.4 (1")
41.3 (1"5/8")	41.3 (1"5/8")	41.3 (1"5/8")	41.3 (1"5/8")	41.3 (1"5/8")	44.5 (1"3/4")	44.5 (1"3/4")	44.5 (1"3/4")	44.5 (1"3/4")	44.5 (1"3/4")	44.5 (1"3/4")
6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
30	30	30	30	30	30	30	30	30	30	30
90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110
4220x1635x790	4220x1635x790	4220x1635x790	4220x1635x790	4220x1635x790	4960x1635x790	5310x1635x790	5310x1635x790	5310x1635x790	5310x1635x790	5310x1635x790
950	977	985	1020	1020	1154	1196	1204	1239	1239	1257
71	71	71	71	71	70	71	71	71	71	71
93	93	93	93	93	92	93	93	93	93	93
48000	46000	48000	48000	48000	56000	58000	60000	60000	60000	60000
-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C
-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C
64	64	64	64	64	64	64	64	64	64	64
50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	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° 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) Refer to the label inside the unit to calculate the additional refrigerant charge.
 (4) When several outdoor units are paired the diameters indicated refer to the section up to the first branch, with a length equivalent or less than 90m.
 (5) Space between the paired units = 100 mm.

PROJECT VRF R410A FULL DC INVERTER

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XRV PREMIUM MODULAR

Heat pump - 2 pipes



Model / Combination			HCSU 500S XRV-P HCSU 500S XRV-P HCSU 615S XRV-P HCSU 615S XRV-P	HCSU 450S XRV-P HCSU 615S XRV-P HCSU 615S XRV-P HCSU 615S XRV-P	HCSU 500S XRV-P HCSU 615S XRV-P HCSU 615S XRV-P HCSU 615S XRV-P	HCSU 560S XRV-P HCSU 615S XRV-P HCSU 615S XRV-P HCSU 615S XRV-P	HCSU 615S XRV-P HCSU 615S XRV-P HCSU 615S XRV-P HCSU 615S XRV-P
Power		HP	80 (18+18+22+22)	82 (16+22+22+22)	84 (18+22+22+22)	86 (20+22+22+22)	88 (22+22+22+22)
Rated capacity (1)	Cooling	kW	223.00	229.50	234.50	240.50	246.00
Rated absorbed power		kW	69.10	73.16	74.23	75.99	79.36
Rated energy efficiency coefficient		EER	3.23	3.14	3.16	3.16	3.10
Seasonal energy efficiency (η _{s,c})		%	191.2	189	189.5	189.4	187.8
Rated capacity (2)	Heating	kW	223.00	229.50	234.50	240.50	246.00
Rated absorbed power		kW	57.36	60.23	61.04	62.54	64.72
Rated energy performance coefficient		COP	3.89	3.81	3.84	3.85	3.80
Seasonal energy efficiency (η _{s,c}) average		%	133.4	133.6	133.2	133	133
Electrical data							
Power supply		Ph-V-Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz
Maximum current		A	158.60	164.60	169.10	175.90	179.60
Refrigerant circuit / features							
Refrigerant		type (GWP)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
Quantity refrigerant pre-load (tons of CO2 equivalent)(3)		Kg (t)	58 (121.104)	61 (127.368)	61 (127.368)	64 (133.632)	64 (133.632)
DC Inverter compressor		no. / type	8/Scroll DC Inverter	8/Scroll DC Inverter	8/Scroll DC Inverter	8/Scroll DC Inverter	8/Scroll DC Inverter
Diameter refrigerant pipes(4)	Liquid	Ø mm (inch)	25.4 (1")	25.4 (1")	25.4 (1")	25.4 (1")	25.4 (1")
	Gas	Ø mm (inch)	44.5 (1"3/4")	44.5 (1"3/4")	44.5 (1"3/4")	44.5 (1"3/4")	44.5 (1"3/4")
	Parallel oil	Ø mm (inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
Max pipe length		m	1000	1000	1000	1000	1000
Max height difference between indoor units		m	30	30	30	30	30
Max height difference between outdoor and indoor units		up-down OU	m	90 - 110	90 - 110	90 - 110	90 - 110
Product specifications							
Dimensions (5)		LxHxD	mm	5660x1635x790	5660x1635x790	5660x1635x790	5660x1635x790
Net weight		Kg	1290	1317	1325	1360	1360
Sound pressure level at 1 m		max	dB(A)	72	72	72	72
Sound power level		max	dB(A)	94	94	94	94
Fan air flow		max	m3/h	64000	62000	64000	64000
Operating limit (outside temperature)	Cooling	°C / DB	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C
	Heating	°C / WB	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C
Max. connectable I.U.		no.	64	64	64	64	64
Capacity of connectable indoor units		%	50 - 130	50 - 130	50 - 130	50 - 130	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° 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) Refer to the label inside the unit to calculate the additional refrigerant charge.

(4) When several outdoor units are paired the diameters indicated refer to the section up to the first branch, with a length equivalent or less than 90m.

(5) Space between the paired units = 100 mm.



NEW

XRV PLUS HEAT RECOVERY

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Heat recovery - 3 pipes	78
Combinations	84
Flow divider	86
Hydromodule	86

PROJECT VRF R410A FULL DC INVERTER

.....

XRV PLUS HEAT RECOVERY

Heat recovery - 3 pipes

NEW



FULL DC INVERTER

HCSRU 2526 XRV-R
HCSRU 2806 XRV-R
HCSRU 3356 XRV-R



FULL DC INVERTER

HCSRU 4006 XRV-R
HCSRU 4506 XRV-R
HCSRU 5006 XRV-R

Splitting and height difference lengths

Max distance between O.U. and the farthest I.U. = 200 m

Max distance from the divider to the farthest I.U. = 40 m

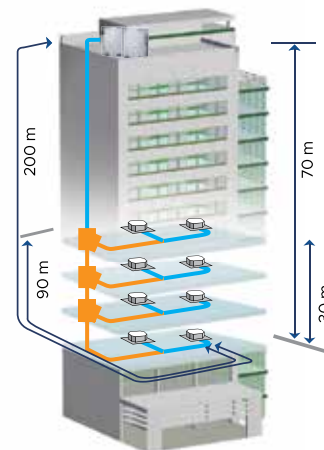
Max distance from the first branch pipe to the farthest I.U. = 90 m

Max height difference between O.U. (up high) and I.U. = 70 m

Max height difference between O.U. (down) and the I.U. = 110 m

Max height difference between I.U. = 30 m

Maximum length of the pipes = 1000 m



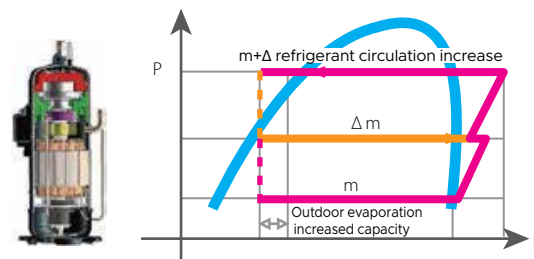
Heating during defrost

XRV Plus remarkably reduces defrost time thanks to the particular structure of the heat exchanger, therefore with non-stop operation.

High performance

Thanks to the steam-injected DC Inverter compressor, HOKKAIDO 3-pipe outdoor units are capable of operating down to -25°C , providing significantly higher heating capacities especially at colder outside temperatures.

The compressor is designed to modulate down to a minimum of 7%, greatly increasing the efficiency of the entire system at partial loads.



Fan and exchanger

Outdoor unit heat exchangers are divided in two parts: a left and right structure, so that there are two independent circuits in one outdoor unit. Each outdoor unit has two fans, which allow control each heat exchanger structure individually.

2-pipe system



3-pipe system



Branch pipe kit

Branch pipe downstream of the first indoor unit

Code	A - Capacity of connectable indoor units (kW)
DIS-22-1RI/B	$A < 16.6$
DIS-180-1RI/B	$16.6 \leq A < 33.0$
DIS-371-1RI/B	$33.0 \leq A < 66.0$
DIS-540-1RH Plus	$66.0 \leq A < 92.0$
DIS-1344-1RH Plus	$92.0 \leq A < 135.0$

Branch pipe kit for outdoor unit connection

Code	Outdoor Units
DOS 2-1RH Plus	2 Outdoor KITS
DOS 3-1RH Plus	3 Outdoor KITS
OH-BAL-KT*	T-shaped fitting for oil parallel pipe

* Included in the KIT DOS 3-1RH Plus.

PROJECT VRF R410A FULL DC INVERTER

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XRV PLUS HEAT RECOVERY

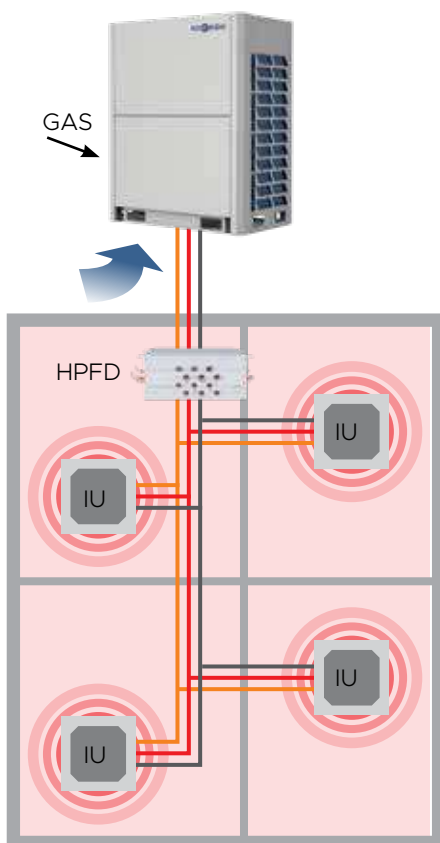
Heat recovery - 3 pipes

NEW

OPERATING MODE

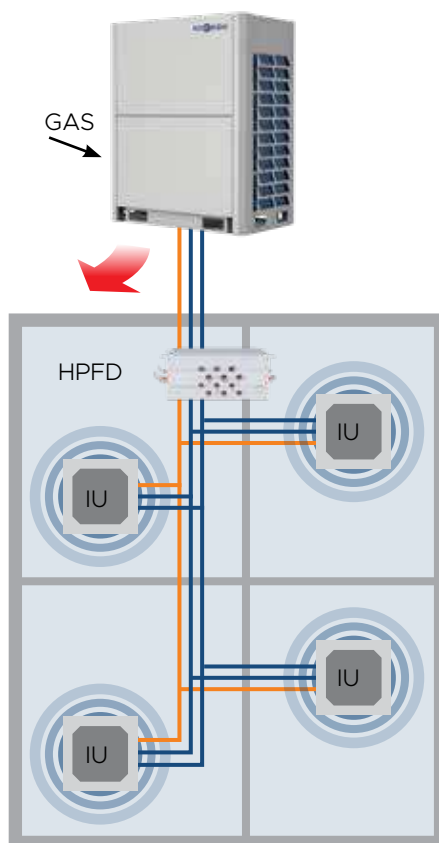
Heating function

The system heats rooms to the desired temperature during the winter.



Cooling function

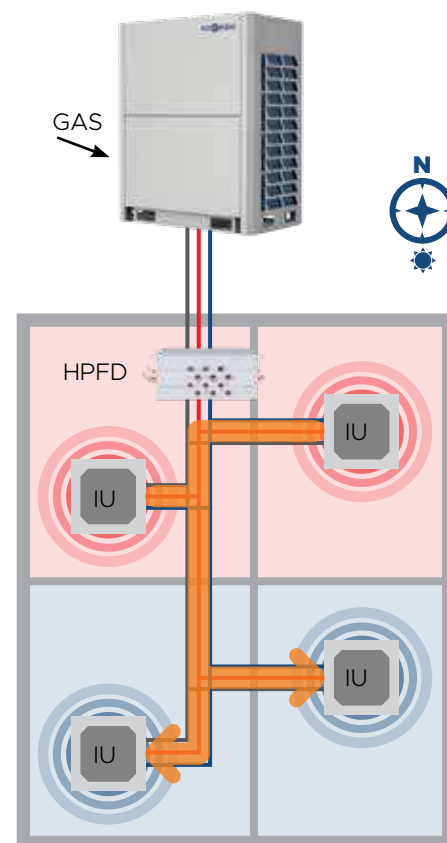
The system cools rooms to the desired temperature during the summer.



Energy recovery

A need to cool and heat simultaneously may arise during mid-seasons or when buildings have different sun exposure.

The XRV Plus Heat Recovery system uses its 3 pipes to recover part of the energy to meet these dual needs.



PROJECT VRF R410A FULL DC INVERTER

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XRV PLUS HEAT RECOVERY

Heat recovery - 3 pipes

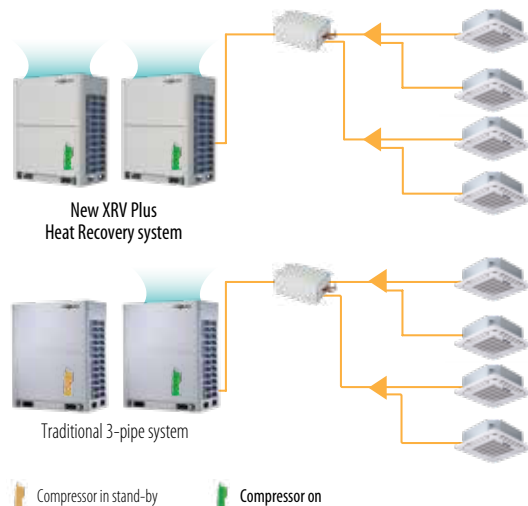
NEW

HIGH EFFICIENCY

Independent control of exchangers and compressors

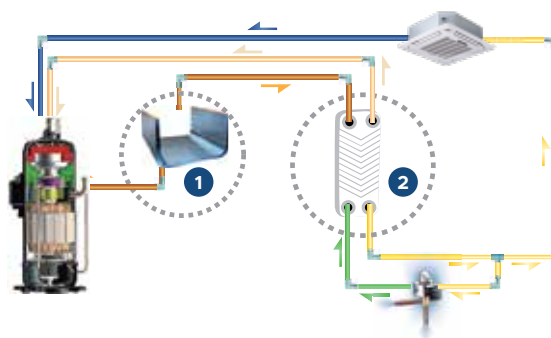
The control of the heat exchangers and compressors is independent, to provide maximum performance in both cooling and heating.

As a result, if the compressor of one unit in a system made up of several modules is not running due to a lower load demand, the respective heat exchanger stays active to maximise the exchange surface and therefore the efficiency of the system.



Additional exchanger for sub-cooling control

The addition of a plate heat exchanger as a secondary intercooler increases refrigerant sub-cooling and improves energy efficiency by 10%.



WIDE RANGE OF APPLICATION

Combinable system

The new HCSRU XRV-R series supplies up to 18HP of capacity in a single unit and up to a maximum of 54HP in a combination of 3 modules, covering all types of applications and building extensions.



8-10-12HP
(single fan)



14-16-18HP
(dual fan)



20-36HP

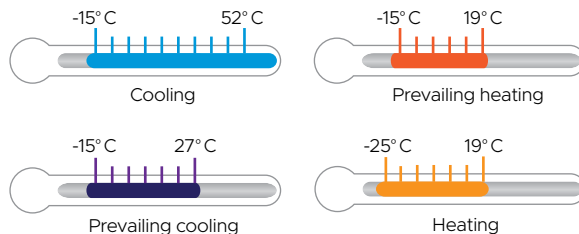


38-54HP

Broad operating range

HCSRU XRV-R offers a wide range of guaranteed operation. It can operate stably at outside temperatures from -15° C to 52° C in cooling mode and from -25° C to 19° C in heating mode.

Simultaneous cooling and heating is guaranteed from -15° C to 27° C in prevailing cooling mode and from -15° C to 19° C in prevailing heating mode.



PROJECT VRF R410A FULL DC INVERTER

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XRV PLUS HEAT RECOVERY

Heat recovery - 3 pipes

NEW

HIGHLY RELIABLE

Outdoor unit rotation cycle

In systems with several outdoor units, the operating logic of the compressors correctly rotates and distributes the operating hours, optimising the use of each component and extending the useful life of the entire system.



cycle 1



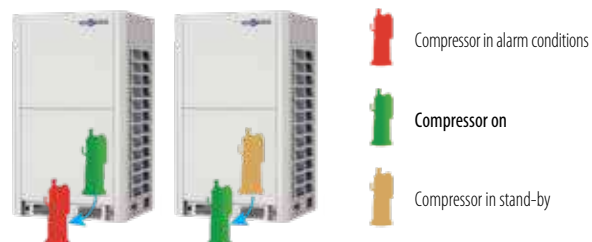
cycle 2



cycle 3

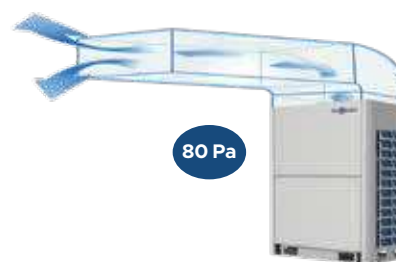
Compressor backup

In multi-module systems, if a single unit is in alarm conditions and fails, it is compensated for by the other units and allows continuity of service until the failed unit is repaired.



Fan static pressure

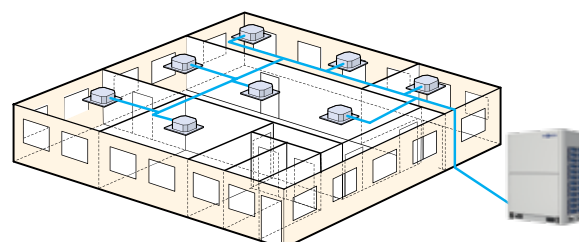
The fan can be set to provide up to 80 Pa of useful static pressure. In this way, the outdoor unit can be installed in technical rooms or in areas where the correct natural flow of air cannot be guaranteed, channelling the expulsion of air from the unit to the outside.



EASY INSTALLATION AND MAINTENANCE

Automatic addressing

The outdoor unit can assign the addresses of the indoor units automatically. The wireless and wired controls can check and change the address of each indoor unit.



PROJECT VRF R410A FULL DC INVERTER

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XRV PLUS HEAT RECOVERY

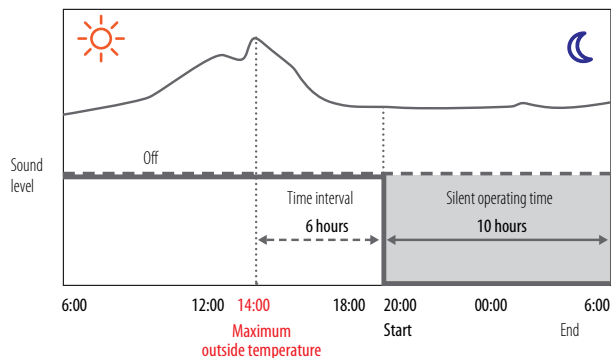
Heat recovery - 3 pipes

NEW

UNPARALLELED COMFORT

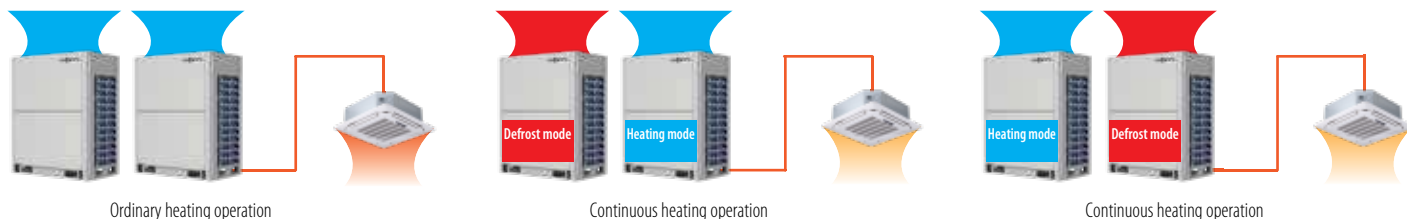
Silent mode

Multiple sound power attenuation modes are available depending on the specific needs, if discrete unit operation is required: night hours only or continuously, and with different degrees of attenuation, limiting only the maximum fan frequency or also the compressor frequency.



Continuous heating

As an alternative to the traditional reverse cycle defrosting technology, it is possible for systems consisting of several HCSRU XRV-R modules to keep the space heating active by defrosting the exchangers of the modules alternately and independently. In this way, heat can be supplied continuously without the system stopping during defrosting.



FLOW CONTROLLER

Single HPDF

- Extended cooling mode operation down to -15° C.
- Management of any third-party leak detectors and isolation of any leakage downstream of the MS box by means of a suitable shut-off valve.
- Possible management of up to 8 indoor units with a total capacity of up to 32 kW (operating in the same mode).
- Compact and lightweight for installation.
- No condensate drain required.
- Extremely precise control via 3200-step electronic valve.
- Silent operation.



HPFD 1-8 XRV-R

Multiple HPDF

- Versions with 4, 6, 8, 10 and 12 connections available.
- Up to 5 indoor units can be connected for each connection (operating in the same mode), for a total of up to 47 indoor units per HPFD box in the 12 connections version.
- Up to 16 kW manageable per connection, or 28 kW by connecting 2 connections.



HPFD 4-20 XRV-R



HPFD 6-30 XRV-R



HPFD 8-40 XRV-R



HPFD 10-47 XRV-R



HPFD 12-47 XRV-R

PROJECT VRF R410A FULL DC INVERTER

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XRV PLUS HEAT RECOVERY

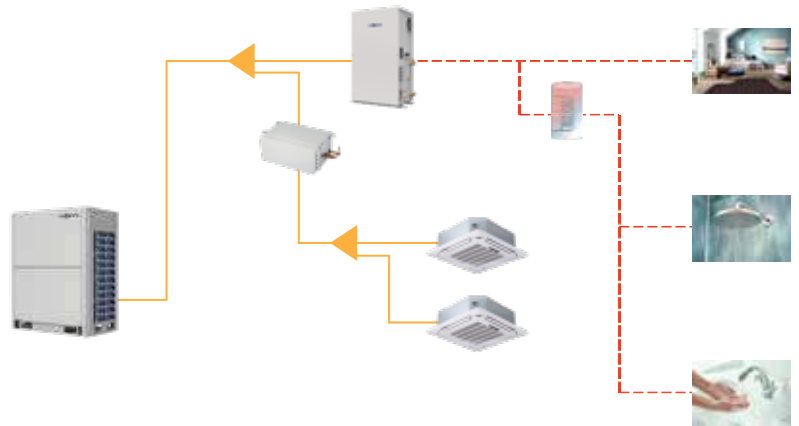
Heat recovery - 3 pipes

NEW

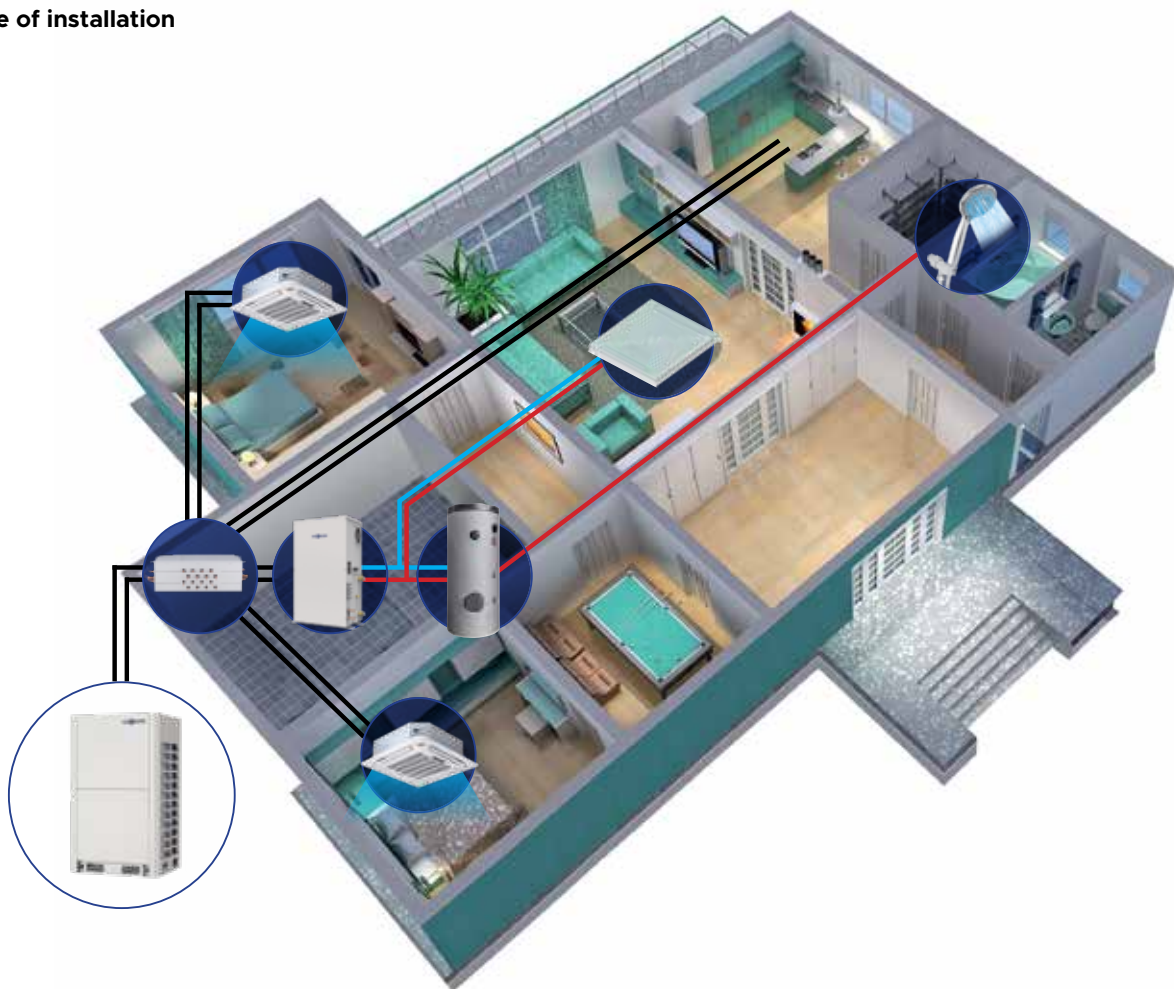
HOT WATER AND HEATING

Maximum flexibility of use

In addition to the simultaneous supply of cooling and heating through indoor units belonging to the same system, the HCSRU XRV-R series can manage high-temperature hydronic modules for hot water production up to 80°C and low-temperature heating (radiant floor or high-efficiency radiators).



Example of installation



PROJECT VRF R410A FULL DC INVERTER

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XRV PLUS HEAT RECOVERY

Heat recovery - 3 pipes



Model / Combination			HCSRU 2526 XRV-R	HCSRU 2806 XRV-R	HCSRU 3356 XRV-R	HCSRU 4006 XRV-R	HCSRU 4506 XRV-R	HCSRU 5006 XRV-R
Power		HP	8	10	12	14	16	18
Rated capacity ¹	Cooling	kW	22.40	28.00	33.50	40.00	45.00	50.00
Rated absorbed power		kW	5.25	7.18	8.64	9.83	12.00	13.81
Energy efficiency coefficient (rated)		EER	4.27	3.90	3.88	4.07	3.75	3.62
Seasonal energy efficiency (η _{s,c})		%	306	299	289	265	264	272
Rated capacity ²	Heating	kW	22.40	28.00	33.50	40.00	45.00	50.00
Rated absorbed power		kW	3.96	5.46	6.57	8.26	9.78	11.90
Energy performance coefficient (rated)		COP	5.66	5.13	5.10	4.84	4.60	4.20
Seasonal energy efficiency (η _{s,h}) average		%	164	167	181	171	170	165
Electrical data								
Power supply		Ph-V-Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz
Maximum current		A	18.00	22.00	24.00	28.00	34.00	36.00
Refrigerant circuit								
Refrigerant (GWP)			R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
Quantity refrigerant pre-load ³		Kg	8	8	8	10	10	10
Tons of CO2 equivalent		t	16.704	16.704	16.704	20.880	20.880	20.880
DC Inverter compressor			no. / type	1 / Scroll DC inverter	1 / Scroll DC inverter	1 / Scroll DC inverter	1 / Scroll DC inverter	1 / Scroll DC inverter
Pipe diameter ⁴	Liquid	ø mm (inch)	9.53 (3/8")	9.53 (3/8")	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	15.9 (5/8")
	High pressure gas		19.1 (3/4")	22.2 (7/8")	28.6 (9/8")	28.6 (9/8")	28.6 (9/8")	28.6 (9/8")
	Low pressure gas		15.9 (5/8")	19.1 (3/4")	19.1 (3/4")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")
Product Specifications								
Dimensions ⁵	LxHxD	mm	990x1635x790	990x1635x790	990x1635x790	1340x1635x825	1340x1635x825	1340x1635x825
Net weight		Kg	232	232	232	300	300	300
Sound pressure level at 1 m		dB(A)	58	58	60	61	64	65
Sound power level		dB(A)	78	78	81	81	88	88
Fan air flow		m³/h	9000	9500	10000	14000	14900	15800
Fan static pressure	Std/Max	Pa	0/80	0/80	0/80	0/80	0/80	0/80
Operating limits (outside temperature)	Cooling ⁶	°C (DB)	-15~-52	-15~-52	-15~-52	-15~-52	-15~-52	-15~-52
	Heating	°C (WB)	-25~-19	-25~-19	-25~-19	-25~-19	-25~-19	-25~-19
Max. connectable I.U.		no.	20	25	30	36	40	45
Capacity of connectable indoor units ⁷		%	50-200:	50-200:	50-200:	50-200:	50-200:	50-200:

Model / Combination			HCSRU 4506 XRV-R HCSRU 4506 XRV-R	HCSRU 4506 XRV-R HCSRU 5006 XRV-R	HCSRU 5006 XRV-R HCSRU 5006 XRV-R	HCSRU 3356 XRV-R HCSRU 3356 XRV-R HCSRU 4006 XRV-R	HCSRU 3356 XRV-R HCSRU 3356 XRV-R HCSRU 4506 XRV-R	HCSRU 3356 XRV-R HCSRU 4006 XRV-R HCSRU 4506 XRV-R
Power		HP	32 (16+16)	34 (16+18)	36 (18+18)	38 (12+12+14)	40 (12+12+16)	42 (12+14+16)
Rated capacity ¹	Cooling	kW	90.00	95.00	100.00	107.00	112.00	118.50
Rated absorbed power		kW	24.00	25.81	28.72	27.10	29.27	30.46
Energy efficiency coefficient (rated)		EER	3.75	3.68	3.48	3.95	3.83	3.89
Seasonal energy efficiency (η _{s,c})		%	264	268	272	281	280.7	272.7
Rated capacity ²	Heating	kW	90.00	95.00	100.00	107.00	112.00	118.50
Rated absorbed power		kW	19.57	21.69	21.83	21.4	22.92	24.62
Energy performance coefficient (rated)		COP	4.60	4.38	4.58	5.00	4.89	4.81
Seasonal energy efficiency (η _{s,c}) average		%	170	167.5	165	177.7	177.3	174
Electrical data								
Power supply	Ph-V-Hz		3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz
Maximum current	A		68.00	70.00	72.00	76.00	82.00	86.00
Refrigerant circuit								
Refrigerant (GWP)			R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
Quantity refrigerant pre-load ³	Kg		20	20	20	26	26	28
Tons of CO2 equivalent	t		41.760	41.760	41.760	54.288	54.288	58.464
DC Inverter compressor		no. / type	2 / Scroll DC inverter	2 / Scroll DC inverter	2 / Scroll DC inverter	3 / Scroll DC inverter	3 / Scroll DC inverter	3 / Scroll DC inverter
Pipe diameter ⁴	Liquid	Ø mm (inch)	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")
	High pressure gas		34.9 (1" 3/8")	34.9 (1" 3/8")	41.3 (1" 5/8")	41.3 (1" 5/8")	41.3 (1" 5/8")	41.3 (1" 5/8")
	Low pressure gas		28.6 (9/8")	28.6 (9/8")	28.6 (9/8")	34.9 (1" 3/8")	34.9 (1" 3/8")	34.9 (1" 3/8")
Product Specifications								
Dimensions ⁵	LxHxD	mm	2780x1635x825	2780x1635x825	2780x1635x825	3520x1635x825	3520x1635x825	3870x1635x825
Net weight	Kg		600	600	600	764	764	832
Sound pressure level at 1 m	dB(A)		67	68	68	65	67	67
Sound power level	dB(A)		91	91	91	86	89	89
Fan air flow	m³/h		29800	30700	31600	34000	34900	38900
Fan static pressure	Std/Max	Pa	0/80	0/80	0/80	0/80	0/80	0/80
Operating limits (outside temperature)	Cooling ⁶	°C (DB)	-15~52	-15~52	-15~52	-15~52	-15~52	-15~52
	Heating	°C (WB)	-25~19	-25~19	-25~19	-25~19	-25~19	-25~19
Max. connectable I.U.	no.		64	64	64	64	64	64
Capacity of connectable indoor units ⁷	%		50-200:	50-200:	50-200:	50-200:	50-200:	50-200:

- Cooling capacity tested in accordance with ISO 5151 Standards; outside temperature 35° C DB, 24° C WB and inside temperature 27° C DB, 19° WB.
- 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.
- Refer to the label inside the unit to calculate the additional refrigerant charge.

- When several outdoor units are paired the diameters indicated refer to the section up to the first branch, with a length equivalent or less than 90m.
- Space between the paired units = 100 mm.
- Operation between -15° C and -5° C only possible in combination with single HPFD.
- The maximum percentage varies depending on the type of indoor units connected. Please refer to the technical manual for specific information.

PROJECT VRF R410A FULL DC INVERTER

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XRV PLUS HEAT RECOVERY

Heat recovery - 3 pipes

NEW

HCSRU 2806 XRV-R HCSRU 2806 XRV-R	HCSRU 2806 XRV-R HCSRU 3356 XRV-R	HCSRU 2806 XRV-R HCSRU 4006 XRV-R	HCSRU 3356 XRV-R HCSRU 4006 XRV-R	HCSRU 3356 XRV-R HCSRU 4506 XRV-R	HCSRU 3356 XRV-R HCSRU 5006 XRV-R
20 (10+10)	22 (10+12)	24 (10+14)	26 (12+14)	28 (12+16)	30 (12+18)
56.00	61.50	68.00	73.50	78.50	83.50
14.36	15/82	17.01	18.46	20.64	22.45
3.90	3.89	4.00	3.98	3.80	3.72
299	294	282	277	276.5	280.5
56.00	61.50	68.00	73.50	78.50	83.50
10.92	12.03	13.72	14.83	16.35	18.47
5.13	5.11	4.96	4.96	4.80	4.52
167	174	169	176	175.5	173
3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz
44.00	46.00	50.00	52.00	58.00	60.00
R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
16	16	18	18	18	18
33.408	33.408	37.580	37.580	37.580	37.580
2 / Scroll DC inverter	2 / Scroll DC inverter	2 / Scroll DC inverter	2 / Scroll DC inverter	2 / Scroll DC inverter	2 / Scroll DC inverter
15.9 (5/8")	15.9 (5/8")	15.9 (5/8")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")
28.6 (9/8")	28.6 (9/8")	34.9 (1" 3/8")	34.9 (1" 3/8")	34.9 (1" 3/8")	34.9 (1" 3/8")
28.6 (9/8")	28.6 (9/8")	28.6 (9/8")	28.6 (9/8")	28.6 (9/8")	28.6 (9/8")
2080x1635x790	2080x1635x790	2430x1635x825	2430x1635x825	2430x1635x825	2430x1635x825
464	464	532	532	532	532
61	62	63	64	65	66
81	83	83	84	89	89
19000	19500	23500	24000	24900	25800
0/80	0/80	0/80	0/80	0/80	0/80
-15~-52	-15~-52	-15~-52	-15~-52	-15~-52	-15~-52
-25~-19	-25~-19	-25~-19	-25~-19	-25~-19	-25~-19
50	55	61	64	64	64
50-200:	50-200:	50-200:	50-200:	50-200:	50-200:

HCSRU 3356 XRV-R HCSRU 4506 XRV-R HCSRU 4506 XRV-R	HCSRU 4006 XRV-R HCSRU 4506 XRV-R HCSRU 4506 XRV-R	HCSRU 4506 XRV-R HCSRU 4506 XRV-R HCSRU 4506 XRV-R	HCSRU 4506 XRV-R HCSRU 4506 XRV-R HCSRU 5006 XRV-R	HCSRU 4506 XRV-R HCSRU 5006 XRV-R HCSRU 5006 XRV-R	HCSRU 5006 XRV-R HCSRU 5006 XRV-R HCSRU 5006 XRV-R
44 (12+16+16)	46 (14+16+16)	48 (16+16+16)	50 (16+16+18)	52 (16+18+18)	54 (18+18+18)
123.50	130.00	135.00	140.00	145.00	150.00
32.64	33.83	36	37.81	39.62	41.44
3.78	3.84	3.75	3.70	3.66	3.62
272.3	264.3	264	266.7	269.3	272
123.50	130.00	135.00	140.00	145.00	150.00
26.13	27.83	29.35	31.47	33.59	35.71
4.73	4.67	4.60	4.45	4.32	4.20
173.7	170.3	170	168.3	166.7	165
3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz
92.00	96.00	102.00	104.00	106.00	108.00
R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
28	30	30	30	30	30
58.464	62.640	62.640	62.640	62.640	62.640
3 / Scroll DC inverter	3 / Scroll DC inverter	3 / Scroll DC inverter	3 / Scroll DC inverter	3 / Scroll DC inverter	3 / Scroll DC inverter
19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")
41.3 (1" 5/8")	41.3 (1" 5/8")	41.3 (1" 5/8")	41.3 (1" 5/8")	41.3 (1" 5/8")	41.3 (1" 5/8")
34.9 (1" 3/8")	34.9 (1" 3/8")	34.9 (1" 3/8")	34.9 (1" 3/8")	34.9 (1" 3/8")	34.9 (1" 3/8")
3870x1635x825	4220x1635x825	4220x1635x825	4220x1635x825	4220x1635x825	4220x1635x825
832	900	900	900	900	900
68	68	69	69	69	70
91	91	93	93	93	93
39800	43800	44700	45600	46500	47400
0/80	0/80	0/80	0/80	0/80	0/80
-15~-52	-15~-52	-15~-52	-15~-52	-15~-52	-15~-52
-25~-19	-25~-19	-25~-19	-25~-19	-25~-19	-25~-19
64	64	64	64	64	64
50-200:	50-200:	50-200:	50-200:	50-200:	50-200:

- Cooling capacity tested in accordance with ISO 5151 Standards; outside temperature 35° C DB, 24° C WB and inside temperature 27° C DB, 19° WB.
- 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.
- Refer to the label inside the unit to calculate the additional refrigerant charge.

- When several outdoor units are paired the diameters indicated refer to the section up to the first branch, with a length equivalent or less than 90m.
- Space between the paired units = 100 mm.
- Operation between -15° C and -5° C only possible in combination with single HPFD.
- The maximum percentage varies depending on the type of indoor units connected. Please refer to the technical manual for specific information.

PROJECT VRF R410A FULL DC INVERTER

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XRV PLUS HEAT RECOVERY Flow dividers

NEW

Simultaneous cooling and heating within the same system is made possible by special flow dividers (HPFD) placed between the outdoor and indoor units which sort the refrigerant in liquid and gaseous phases between the rooms requiring cooling or heating.

Several versions are available, with single or multiple connections.



Model			HPFD 1-8 XRV-R	HPFD 4-20 XRV-R	HPFD 6-30 XRV-R	HPFD 8-40 XRV-R	HPFD 10-47 XRV-R	HPFD 12-47 XRV-R
Number of connections			1	4	6	8	10	12
Max. number of indoor units per each connection ¹			8	5	5	5	5	5
Max. total number of indoor units per divider ¹			8	20	30	40	47	47
Max. capacity for each connection ²		kW	32	16	16	16	16	16
Max. total capacity of indoor units per divider			kW	32	49	63	85	85
Pipe connections	Connection to outdoor unit	Liquid	Ø mm	9.53 / 12.7	9.53 / 12.7 / 15.9 / 19.1	9.53 / 12.7 / 15.9 / 19.1	12.7 / 15.9 / 19.1 / 22.2	12.7 / 15.9 / 19.1 / 22.2
		Gas-High pressure	Ø mm	15.9 / 19.1 / 22.2	19.1 / 22.2 / 28.6	19.1 / 22.2 / 28.6	22.2 / 28.6 / 34.9	22.2 / 28.6 / 34.9
		Gas- Low pressure	Ø mm	12.7 / 15.9 / 19.1	15.9 / 19.1 / 22.2 / 28.6	15.9 / 19.1 / 22.2 / 28.6	19.1 / 22.2 / 28.6	19.1 / 22.2 / 28.6
	Connection to indoor unit	Liquid	Ø mm	6.35 / 9.53	6.35 / 9.53	6.35 / 9.53	6.35 / 9.53	6.35 / 9.53
		Gas	Ø mm	12.7 / 15.9	12.7 / 15.9	12.7 / 15.9	12.7 / 15.9	12.7 / 15.9
External dimensions		LxHxD	mm	440x195x296	668x250x574	668x250x574	974x250x574	974x250x574
Net weight			Kg	10.5	33	36	48	51
Sound pressure level ³			dB(A)	40	44	45	47	47
Sound power level ³			dB(A)	60	63	65	65	65
Power supply		Ph-V-Hz	1-220~240V-50Hz					

1. Any indoor units connected to the same connection as the MS box must run in the same mode.

2. For MS boxes with 4 to 12 connections, indoor units with a capacity of 16 kW to 28 kW can be connected to 2 connections through connection kit FQZHN-09A.

3. The sound levels are measured in a semi-anechoic chamber, 1 m below the MS BOX during the mode change.

Avoid installing the MS BOXes in environments with low noise requirements.

Hydromodule

NEW



HHNMS 140 XRV-R

Model			HHNMS 140 XRV-R
Rated capacity ¹	Heating	kW	14
	Heating	°C	-20~30
Operating limits (outside temperature)	Domestic water	°C	-20~43
		°C	25~80
Delivery water temperature adjustment range			25~80
Electrical data			
Power supply		Ph-V-Hz	1-220~240V-50Hz
Maximum current		A	16
Product specifications			
External dimensions		LxHxD	mm
Net weight		Kg	450x795x300
Sound pressure level		dB(A)	63
Sound power level		dB(A)	43
Water flow		Std (Min~Max)	m³/h
Water pressure		Min~Max	bar
Connections	Freon Liquid/Gas	Ø mm (inch)	2.4 (1.2~2.9)
	Inlet/outlet water	Ø mm (inch)	1~3
Serial control		type	9.52 (3/8") / 12.7 (1/2")
			25.4 (1")
			Wired remote control

1. Heating capacity tested in accordance with ISO 5151 Standards; outside temperature 7°C DB, 6°C WB and inlet/outlet water temperature 40°C DB, 45°C WB.

PROJECT VRF R410A FULL DC INVERTER

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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	compact 60x60  HTFU XRV-P	•	•	•	•									
	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  HFIU XRV-P	•	•	•	•									
	console  HFCU XRV-P		•	•		•								

PROJECT VRF R410A FULL DC INVERTER

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HTFU XRV-P Compact cassette 60x60



The control must be purchased as an accessory



Ultra-compact design

22 dB(A) (2.20~2.80 kW) | Extremely quiet

360° air diffusion

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

Model			HTFU 225 XRV-P	HTFU 285 XRV-P	HTFU 365 XRV-P	HTFU 455 XRV-P
Control (included)		type	none			
Rated cooling capacity		kW	2.20	2.80	3.60	4.50
Rated heating capacity		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						
Air flow (1)	Max~Min	m³/h	576~405		604~400	
Sound pressure level at 1.4 m (1)	Max~Min	dB(A)	35~22		41~28	
Sound power level (1)	Max~Min	dB(A)	51~38		56~43	
External dimensions	LxHxD	mm	630x260x570			
Net weight		Kg	18		19.2	
Refrigerant connections	Liquid/Gas	Ø mm (inch)	6.35 (1/4") - 12.7 (1/2")			
Condensate drain		Ø 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-K-P			
Optional parts						
Centralized control			see page 117			

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

HTBU XRV-P Cassette 84x84



The control must be purchased as an accessory



Optimised fan design to attenuate air resistance and reduce noise level

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

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

Model			HTBU 565 XRV-P	HTBU 715 XRV-P	HTBU 905 XRV-P	HTBU 1125 XRV-P	HTBU 1405 XRV-P
Control (included)		type	none				
Rated cooling capacity		kW	5.60	7.10	9.00	11.20	14.00
Rated heating capacity		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							
Air flow (1)	Max~Min	m³/h	1029~704	1200~748	1596~1034		1727~1224
Sound pressure level at 1.4 m (1)	Max~Min	dB(A)	43~34	45~34	47~36		50~38
Sound power level (1)	Max~Min	dB(A)	56~47	58~47	61~50		64~52
External dimensions		LxHxD	840x230x840		840x300x840		
Net weight		Kg	23.2		28.4		30.7
Refrigerant connections	Liquid/Gas	Ø mm (inch)	9.52 (3/8") - 15.9 (5/8")				
Condensate drain		Ø 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-K-P				
Optional parts							
Centralized control			see page 117				

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

CLEAN AIR UV-KIT

AIR PURIFYING DEVICE FOR DUCTED SYSTEMS

TMS-UV02
TMS-UV04



AN ALL-IN-ONE SOLUTION FOR ELIMINATING VIRUSES AND BACTERIA

The UV-C air purification device has the ability to modify the DNA or RNA of micro-organisms, preventing them from reproducing and thus being harmful. UV-C light is able to inactivate 99.99% of viruses.

Use in ducted systems is recommended as it does not expose humans to UV-C light and allows disinfection and air purification.

The device technology is able to degrade numerous organic compounds by oxidation.

The filter attracts and retains moisture molecules that are naturally present in the air, capturing fine dust and oxides. This process encourages faster decomposition of substances that are harmful to humans.

This product is therefore capable of:

- Effectively eliminating micro-organisms that are harmful to human health, such as moulds and viruses
- Decomposing organic compounds present in the air such as benzene, formaldehyde, ammonia, ether, TVOC and other organic chemical compounds
- Eliminating unpleasant odours

This device can be connected to ducted indoor units so that they only operate when the air conditioning system is switched on.

TMS-UV02: for models HUCU 225-1405 XRV-P; HVDU 715-1405 XRV-P.

TMS-UV04: for models HVDU 1605-2805 XRV-P.

PROJECT VRF R410A FULL DC INVERTER

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HUCU XRV-P

Ducted with medium static pressure



The control must be purchased as an accessory



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); **150 Pa** (14.00 kW)

Air intake from bottom or rear

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

Compatible with systems **AIRZONE**

Model		HUCU 225 XRV-P	HUCU 285 XRV-P	HUCU 365 XRV-P	HUCU 455 XRV-P
Control (included)	type	none			
Rated cooling capacity	kW	2.20	2.80	3.60	4.50
Rated heating capacity	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					
Air flow (1)	Max~Min	m³/h	520~300	580~370	800~400
Fan static pressure	Std/Max	Pa	10/50		
Sound pressure level at 1.4 m (1)	Max~Min	dB(A)	32~23	33~25	36~25
Sound power level (1)	Max~Min	dB(A)	50~41	51~43	54~43
Dimensions	LxHxD	mm	780x210x500		1000x210x500
Net weight		Kg	18		21.5
Refrigerant connections	Liquid/Gas	Ø mm (inch)	6.35 (1/4") - 12.7 (1/2")		
Condensate drain		Ø mm	25		
Accessories					
Remote control			DHIR-5-6-XRV-K-P		
Wired remote control			DHW-5-6-XRV-K-P		
Optional parts					
Centralized control			see page 117		

(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	HUCU 1405 XRV-P
Control (included)	type		none				
Rated cooling capacity	kW		5.60	7.10	9.00	11.20	14.00
Rated heating capacity	kW		6.30	8.00	10.00	12.50	15.50
Electrical data							
Power supply	Ph-V-Hz		1-220~240V-50Hz				
Electrical absorption	W		92	98	120	200	250
Product specifications							
Air flow (1)	Max~Min	m³/h	830~560	1000~680	1260~780	1500~1080	1960~1360
Fan static pressure	Std/Max	Pa	10/50		20/100		40/150
Sound pressure level at 1.4 m (1)	Max~Min	dB(A)	36~28	37~28	37~28	39~33	41~33
Sound power level (1)	Max~Min	dB(A)	54~46	55~46	55~46	57~51	59~51
Dimensions	LxHxD	mm	1000x210x500	1220x210x500	1230x270x775		1290x300x865
Net weight		Kg	21.5	27.5	37		46.5
Refrigerant connections	Liquid/Gas	Ø mm (inch)	9.52 (3/8") - 15.9 (5/8")				
Condensate drain		Ø mm	25				
Accessories							
Remote control			DHIR-5-6-XRV-K-P				
Wired remote control			DHW-5-6-XRV-K-P				
Optional parts							
Centralized control			see page 117				

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

PROJECT VRF R410A FULL DC INVERTER

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HVDU XRV-P

Ducted with high static pressure



The control must be purchased as an accessory



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

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
Control (included)	type					none			
Rated cooling capacity	kW		7.10	9.00	11.20	14.00	16.00	20.00	28.00
Rated heating capacity	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									
Air flow (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
Sound pressure level at 1.4 m (1)	Max~Min	dB(A)	46~42	50~45	50~45	53~48	54~50		57~50
Sound power level (1)	Max~Min	dB(A)	64~60	68~63	68~63	71~66	72~68		75~68
Dimensions	LxHxD	mm		965x423x690		1322x423x691			1454x515x931
Net weight		Kg	41	51	51	68	68		130
Refrigerant connections	Liquid/Gas	Ø mm (inch)			9.52 (3/8") - 15.9 (5/8")				12.7 (1/2") - 22.2 (7/8")
Condensate drain		Ø mm			25				32
Accessories									
Remote control						DHIR-5-6-XRV-K-P			
Wired remote control						DHW-5-6-XRV-K-P			
Optional parts									
Centralized control						see page 117			

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

HVDU-F XRV-P

All-outside air ducted



The control must be purchased as an accessory



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

Model			HVDU-F 1255 XRV-P	HVDU-F 1405 XRV-P
Control (included)				none
Rated cooling capacity (1)	kW		12.50	14.00
Rated heating capacity (2)	kW		10.50	12.00
Electrical data				
Power supply	Ph-V-Hz			1-220~240V-50Hz
Electrical absorption	W			480
Product specifications				
Air flow (3)	Max~Min	m³/h		2000~1500
Fan static pressure	Std/Max	Pa		180/200
Sound pressure level at 1.4 m (3)	Max~Min	dB(A)		48~42
Sound power level (3)	Max~Min	dB(A)		66~60
Dimensions	LxHxD	mm		1322x423x691
Net weight		Kg		68
Refrigerant connections	Liquid/Gas	Ø mm (inch)		9.52 (3/8") - 15.9 (5/8")
Condensate drain		Ø mm		25
Operating field (100% outdoor air)	Cooling	°C		-5 / 16
	Heating			20 / 43
Accessories				
Remote control				DHIR-5-6-XRV-K-P
Wired remote control				DHW-5-6-XRV-K-P
Optional parts				
Centralized control				see page 117

(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.

PROJECT VRF R410A FULL DC INVERTER

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HKEU XRV-P Wall



The control must be purchased as an accessory



New design

203 mm deep (2.20 kW) | Extremely compact design

29 dB(A) (2.20~2.80 kW) | Extremely quiet

Standard washable filter

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
Control (included)		type	none						
Rated cooling capacity		kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00
Rated heating capacity		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									
Air flow (l)	Max~Min	m³/h	422~356	417~316	656~488	594~424	747~547	1195~809	1421~867
Sound pressure level at 1 m (1)	Max~Min	dB(A)	31~29	31~29	33~30	35~31	38~34	44~36	48~38
Sound power level (1)	Max~Min	dB(A)	46~44	46~44	48~45	50~46	53~49	59~51	63~53
Dimensions	LxHxD	mm	835x280x203				990x315x223		1194x343x262
Net weight		Kg	8.4	9.5	11.4	12.8		17	
Refrigerant connections	Liquid/Gas	Ø mm (inch)	6.35 (1/4") - 12.7 (1/2")				9.52 (3/8") - 15.9 (5/8")		
Condensate drain		Ø mm	16						
Accessories									
Remote control			DHIR-5-6-XRV-K-P						
Wired remote control			DHW-5-6-XRV-K-P						
Optional parts									
Centralized control			see page 117						

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

HSFU XRV-P Floor/ceiling



The control must be purchased as an accessory



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

Model			HSFU 565 XRV-P	HSFU 715 XRV-P	HSFU 905 XRV-P	HSFU 1125 XRV-P	HSFU 1405 XRV-P
Control (included)		type	none				
Rated cooling capacity		kW	5.60	7.10	9.00	11.20	14.00
Rated heating capacity		kW	6.30	8.00	10.00	12.50	15.00
Electrical data							
Power supply		Ph-V-Hz	1-220~240V-50Hz				
Electrical absorption		W	115	115	130	180	180
Product specifications							
Air flow (l)	Max~Min	m³/h	930~720		1280~1050	1890~1580	
Sound pressure level at 1 m (1)	Max~Min	dB(A)	43~38		45~40	47~42	
Sound power level (1)	Max~Min	dB(A)	56~51		58~53	60~55	
Dimensions	LxHxD	mm	990x660x203		1280x660x203	1670x680x244	
Net weight		Kg	28		35	48	
Refrigerant connections	Liquid/Gas	Ø mm (inch)	9.52 (3/8") - 15.9 (5/8")				
Condensate drain		Ø mm	16				
Accessories							
Remote control			DHIR-5-6-XRV-K-P				
Wired remote control			DHW-5-6-XRV-K-P				
Optional parts							
Centralized control			see page 117				

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

PROJECT VRF R410A FULL DC INVERTER

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HFIU XRV-P Console



The control must be purchased as an accessory



210 mm deep | Ultra-compact design

Double air distribution mode: from above and/or below

7 fan speeds

Front and side air intake

Anti-formaldehyde filter | To eliminate the harmful effects of the gases released in rooms

Model			HFIU 225 XRV-P	HFIU 285 XRV-P	HFIU 365 XRV-P	HFIU 455 XRV-P
Control (included)			none			
Rated cooling capacity		kW	2.20	2.80	3.60	4.50
Rated heating capacity		kW	2.60	3.20	4.00	5.00
Electrical data						
Power supply		Ph-V-Hz	1-220~240V-50Hz			
Electrical absorption		W	20	25	25	35
Product specifications						
Air flow (1)	Max~Min	m³/h	430~229	510~229	510~229	660~400
Sound pressure level at 1 m (1)	Max~Min	dB(A)	38~26	39~27	39~27	42~36
Sound power level (1)	Max~Min	dB(A)	54~42	55~43		58~52
Dimensions	LxHxD	mm	700x600x210			
Net weight		Kg	14	15		
Refrigerant connections	Liquid/Gas	Ø mm (inch)	6.35 (1/4") - 12.7 (1/2")			
Condensate drain		Ø mm	16			
Accessories						
Remote control			DHIR-5-6-XRV-K-P			
Wired remote control			DHW-5-6-XRV-K-P			
Optional parts						
Centralized control			see page 117			

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

HFCU XRV-P Recessed floor



The control must be purchased as an accessory



29 dB(A) (2.80 kW) | Extremely quiet

Air intake from bottom

212 mm | Maximum compactness for flush-mounted installation

Model			HFCU 285 XRV-P	HFCU 365 XRV-P	HFCU 565 XRV-P
Control (included)			none		
Rated cooling capacity		kW	2.80	3.60	5.60
Rated heating capacity		kW	3.20	4.00	6.30
Electrical data					
Power supply		Ph-V-Hz	1-220~240V-50Hz		
Electrical absorption		W	45	55	88
Product specifications					
Air flow (1)	Max~Min	m³/h	569~421	624~375	1150~830
Fan static pressure	Std/Max	Pa	10/10		
Sound pressure level at 1 m (1)	Max~Min	dB(A)	36~29	37~30	41~31
Sound power level (1)	Max~Min	dB(A)	54~47	55~48	59~49
Dimensions	LxHxD	mm	840x545x212	1040x545x212	1340x545x212
Net weight		Kg	21	25.5	30.5
Refrigerant connections	Liquid/Gas	Ø mm (inch)	6.35 (1/4") - 12.7 (1/2")		9.52 (3/8") - 15.9 (5/8")
Condensate drain		Ø mm	16		
Accessories					
Remote control			DHIR-5-6-XRV-K-P		
Wired remote control			DHW-5-6-XRV-K-P		
Optional parts					
Centralized control			see page 117		

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

PROJECT VRF R410A FULL DC INVERTER

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TOTAL HEAT EXCHANGER

NEW

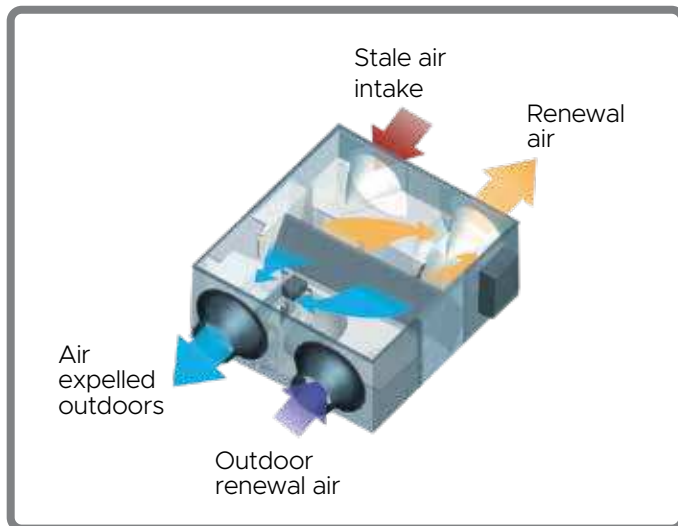


EHIN 204~404



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.

- 8 power sizes: 200~2000 m³/h.
- DC Inverter fan.

Model			EHIN 204	EHIN 304	EHIN 404	EHIN 504	EHIN 804	EHIN 1004	EHIN 1504	EHIN 2004
Control (included)		type	None							
Exchange efficiency ¹	Enthalpy	%	77.5	72.1	73.5	74.0	72.3	76.0	69.4	74.7
	Thermal	%	81.1	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	70	100	110	150	320	380	680	950
Rated absorbed current		A	0.64	0.84	0.97	1.2	2.4	2.9	3.8	5.7
Product specifications										
External dimensions	LxHxD	mm	801x272x1195	914x272x1195	1204x272x1276	1106x390x1311	1286x390x1311	1526x390x1311	1425x615x1740	1625x685x1811
Net weight		Kg	46.5	56.5	71.5	76	80	90	181.5	208.5
Sound power level	Hi	dB(A)	45	48	48	50	55	54	69	70
Treated air		m³/h	200	300	400	500	800	1000	1500	2000
Fan static pressure	Hi	Pa	100	90	100	90	140	160	180	200
Ducting flange		mm	ø144	ø144	ø198	ø244	ø244	ø244	346x326	346x326
Condensate drain			Not required						Necessary	
Field of application		°C	-7~43 DB (max RH 80%)							
Degree of protection			IPX2							
Specific energy consumption ²	SEC	kWh/m² a	-41.50	-	-	-	-	-	-	-
Class SEC ²			A	-	-	-	-	-	-	-
Accessories										
Mandatory wired remote control			DHW EH							

1. Values related to the high speed of the 3 levels settable by wired remote control.

2. Mandatory data for residential ventilation units (RVU) only.

EU Ecodesign Directive 1253/2014 for non-residential ventilation units (NRVU) and residential ventilation (RVU).

EU Energy Labelling 1254/2014 Residential Ventilation Unit (RVU).



PROJECT VRF R410A FULL DC INVERTER

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EEV KIT

NEW

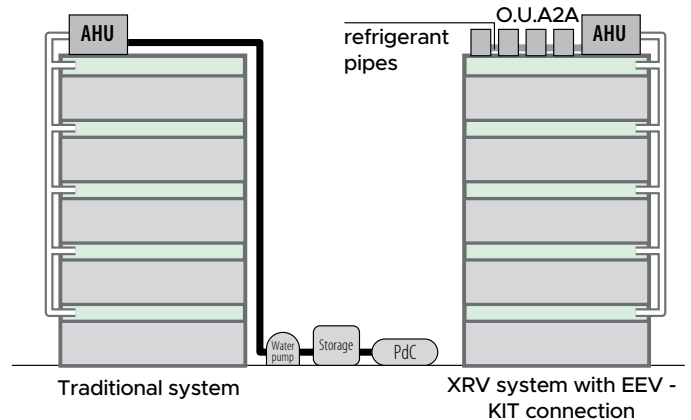
Kit for connecting AHU with direct expansion coil to Hokkaido XRV systems.



HAHU 2-9 XRV-R HAHU 20-36 XRV-R
HAHU 9-20 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 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.

EEV-KIT Application diagrams

Diagram type A: Mixed system indoor unit XRV + AHU

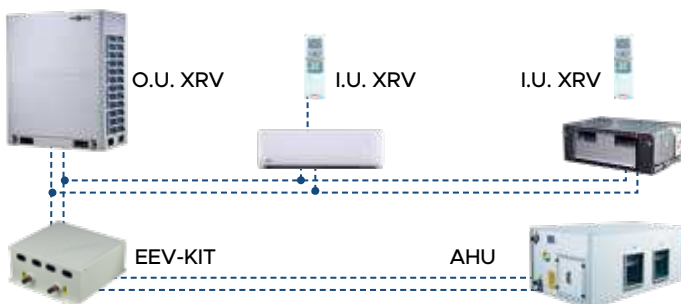
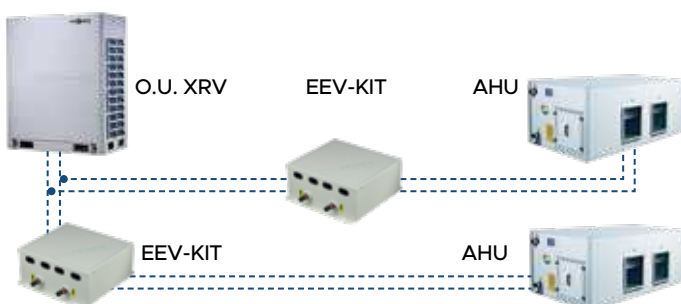


Diagram type B: AHU only



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 refrigerant gas, except for heat recovery systems (XRV 3 pipes).

PROJECT VRF R410A FULL DC INVERTER

.....

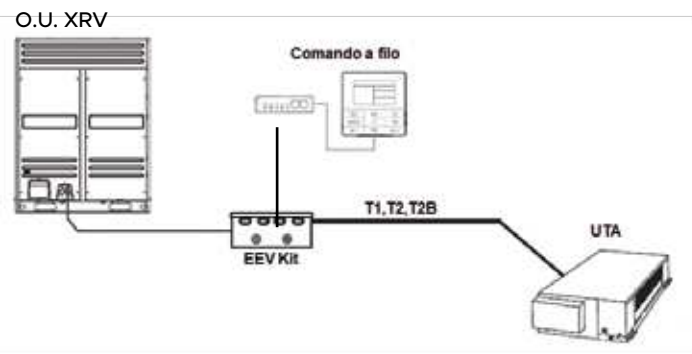
EEV KIT

NEW

Technical data

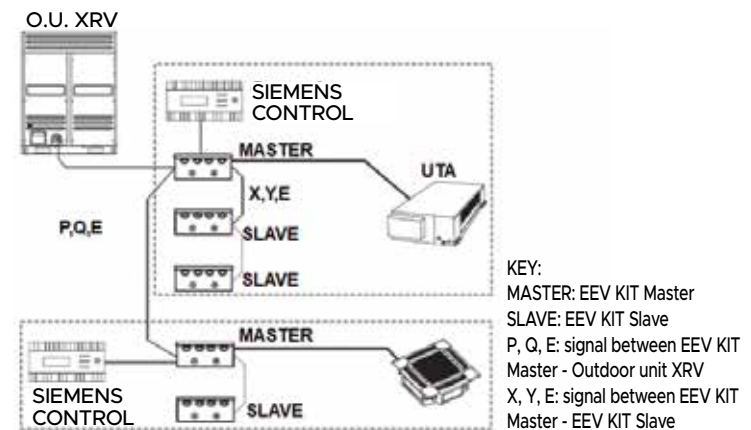
Model	HAHU 2-9 XRV-R	HAHU 9-20 XRV-R	HAHU 20-36 XRV-R	HAHU 36-56 XRV-R
Rated capacity (kW)	2.20~9.00	9.10~20.00	20.10~36.00	36.10~56.00
Power supply (Ph-V-Hz)	1-220~240V-50Hz			
H x L x P (mm)	375 x 350 x 150			
Net weight (kg)	5.7	5.7	5.9	6
In/out refrigerant connections [Ø mm (inch)]	6.35 (1/4")	9.52 (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	See compatibility table			

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



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
HAHU 9-20 XRV-R	3	Between 8.00 and 9.00 kW
	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
HAHU 20-36 XRV-R	6	Between 18.00 and 20.00 kW
	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-K - setting capacity 12HP;
- HAHU 36-56 XRV-K - setting capacity 20HP.



HEATING



THE RANGE THAT MEETS ALL NEEDS

.....

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

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

HEATING

.....

MONOBLOC R32	100
Air-water heat pump	
HP SPLIT R32	106
Air-water heat pump	
FAN COIL - HYDRONIC TERMINALS	110
Compact cassette 60x60	112
Cassette 84x84	112
Ducted	113
Wall	113
Exposed floor/ceiling	114
Recessed floor/ceiling	114
HOT WATER	115
Water heater with heat pump	

HEATING

.....

MONOBLOC R32

OUTDOOR UNITS



Single phase 5-7-9 kW

HCEWMS 500 Z

HCEWMS 700 Z

HCEWMS 900 Z



Single phase 12-14-16 kW

HCEWMS 1200 - 1400 - 1600 Z

Three-phase 12-14-16 kW

HCVWMS 1202 - 1402 - 1602 Z



Three-phase 18-22-24-30 kW

HCVWMS 1802 - 2202 Z

HCVWMS 2602- 3002 Z

NEW

DUAL STAGE COMPRESSOR



The dual stage compressor reduces any vibrations during rotation, effectively dampening noise.

BROAD OPERATING RANGE



COOLING

-5°/+46°

(outside temperature)

PRODUCT PLUSES



3 operating modes

Auto, cooling, heating.



Disinfect

Activation of the anti-legionella function.

CIRCULATOR



Circulation pump included.



HEATING

-25°/+35°

(outside temperature)



Timer

Daily and weekly.



Silent mode

Setting of two sound dampening levels and two timers.



DHW PRODUCTION

-25°/+43°

(outside temperature)



Holiday mode

Timer setting during a selected period.



Recirculation pump

Pump on and off settable using the timer.



MODBUS

Wired remote control connection to MODBUS systems.



WiFi

Remote connection via built-in WiFi.

HEATING

.....

MONOBLOC R32

4 OPERATING MODES

 COOLING

 HEATING

 DOMESTIC HOT WATER

 AUTOMATIC

3 COMBINED OPERATING MODES

 COOLING + DHW

 HEATING + DHW

 AUTOMATIC + DHW



HEATING + DHW
operating mode

SYSTEM

Climatic curve management

The system lets the user set 2 curves for each thermal zone:

- climatic curve in heating mode;
- climatic curve in cooling mode.

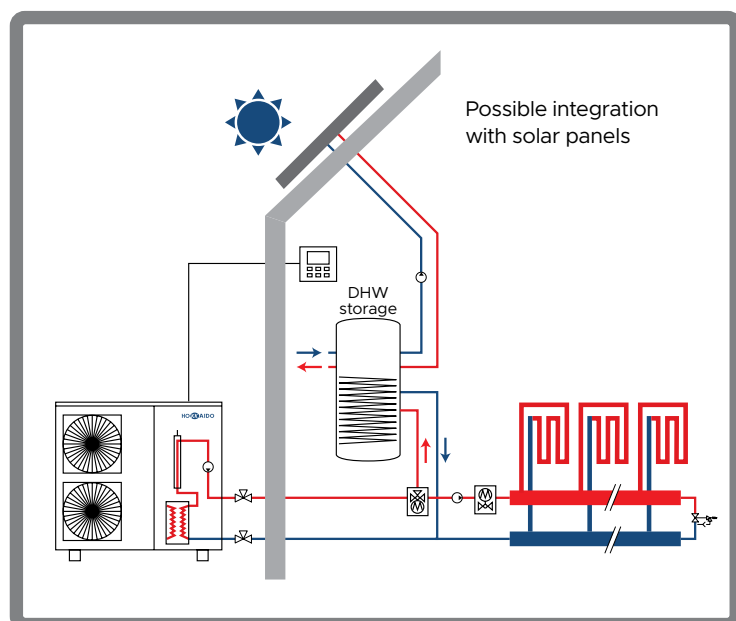
Up to 8 different climate curves can be selected for each mode, depending on the outside ambient temperature.

INSTALLATION FLEXIBILITY

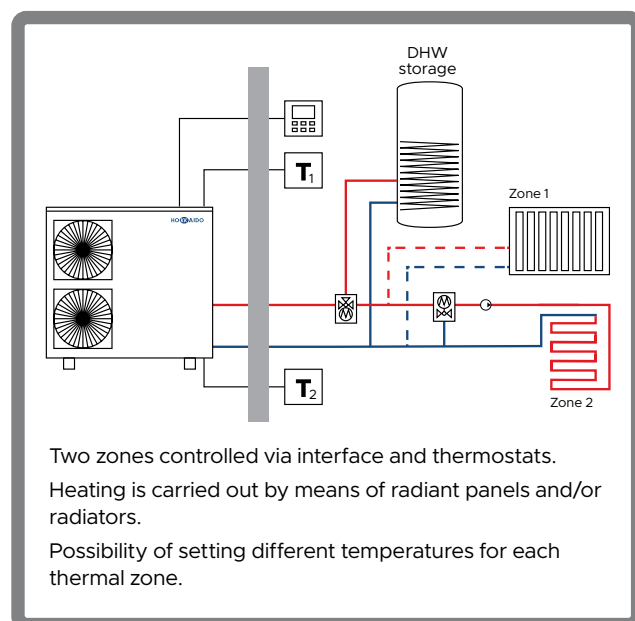
The monobloc in R32 offers extensive installation flexibility. Depending on the needs of the end user, the system lets you:

- heat and cool rooms with radiant floors, high efficiency radiators and/or fan coils;
- produce domestic hot water;
- integrate the tank with thermal solar panels;
- set the maximum operating current.

Hydraulic connections diagram



Dual-zone system



HEATING

.....

MONOBLOC R32



Single phase 5-7-9 kW
HCEWMS 500 Z
HCEWMS 700 Z
HCEWMS 900 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				HCEWMS 500 Z	HCEWMS 700 Z	HCEWMS 900 Z
Heating	Rated power	A7//W35	kW	4.65	6.65	8.60
	Electrical absorption			0.93	1.35	1.87
	Performance coefficient			COP	5.00	4.93
	Rated power	A7//W45	kW	4.80	6.70	8.60
	Electrical absorption			1.33	1.88	2.50
	Performance coefficient			COP	3.61	3.56
	Seasonal energy efficiency (ηs)	35/55	%	176/127	176/127	177/126
Energy efficiency class	35/55	-	A+++/A++	A+++/A++	A+++/A++	
Cooling	Rated power	A35//W18	kW	4.60	6.45	8.00
	Electrical absorption			0.95	1.39	1.92
	Energy efficiency			EER	4.84	4.64
	Rated power	A35//W7	kW	4.85	6.30	7.95
	Electrical absorption			1.63	2.27	3.15
	Energy efficiency			EER	2.98	2.78
Operating limits	Outside air temperature	Heating	°C	-25~35		
		Cooling		-5~43		
		DHW		-25~43		
	Delivery water temperature	Heating	°C	25~60		
		Cooling		5~25		
		DHW		40~60		
Refrigerant	Type (GWP)			R32 (675)		
	Quantity (tons CO2)	kg (t)		2.0 (1.350)		
	Control system			Electronic expansion valve		
Type of compressor				Twin Rotary - DC Inverter		
Internal circulator				WILO Yonos PARA RS 15/6 RKC		
Expansion tank	Volume	L		2		
	Pre-load	bar		1.5		
Hydraulic connections	Water inlet/outlet	Inches		1"M	1"M	1"M
	Power supply	Ph-V-Hz		1ph-220~240V-50Hz		
Electrical data	Maximum current	A		14.1		
	Power cable	type		3x4 mm²		
Control	Standard			Wire remote control		
Sound pressure level at 1 m	Max	dB(A)		48.8	52.3	54.5
Sound power level	Max	dB(A)		61	64	67
Dimensions	LxDxH	mm		1210x402x945		
Net weight		kg		92		

NOTE: 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.

HEATING

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MONOBLOC R32



Single phase 12-14-16 kW

HCEWMS 1200 - 1400 - 1600 Z

Three-phase 12-14-16 kW

HCVWMS 1202 - 1402 - 1602 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				HCEWMS 1200 Z	HCEWMS 1400 Z	HCEWMS 1600 Z	HCVWMS 1202 Z	HCVWMS 1402 Z	HCVWMS 1602 Z
Heating	Rated power	A7//W35	kW	12.30	14.10	16.30	12.30	14.10	16.30
	Electrical absorption			2.56	3.07	3.66	2.54	3.05	3.63
	Performance coefficient			4.80	4.59	4.45	4.84	4.62	4.49
	Rated power	A7//W45	kW	12.40	14.10	16.20	12.40	14.10	16.20
	Electrical absorption			3.52	4.06	4.72	3.45	3.99	4.70
	Performance coefficient			3.52	3.47	3.43	3.59	3.53	3.45
	Seasonal energy efficiency (ηs)	35/55	%	169/126	168/128	169/128	169/126	168/128	169/128
Energy efficiency class	35/55	-	A++/A++	A++/A++	A++/A++	A++/A++	A++/A++	A++/A++	
Cooling	Rated power	A35//W18	kW	12.20	14.00	15.50	12.20	14.00	15.50
	Electrical absorption			2.55	3.10	3.64	2.53	3.11	3.63
	Energy efficiency			4.78	4.52	4.26	4.82	4.50	4.27
	Rated power	A35//W7	kW	10.90	12.90	13.80	10.90	12.90	13.80
	Electrical absorption			3.74	4.64	5.21	3.72	4.62	5.19
	Energy efficiency			2.91	2.78	2.65	2.93	2.79	2.66
Operating limits	Outside air temperature	Heating	°C	-25~35			-25~35		
		Cooling		-5~46			-5~46		
		DHW		-25~43			-25~43		
	Delivery water temperature	Heating	°C	25~60			25~60		
		Cooling		5~25			5~25		
		DHW		40~60			40~60		
Refrigerant	Type (GWP)			R32 (675)			R32 (675)		
	Quantity (tons CO2)		kg (t)	2.8 (1.890)			2.8 (1.890)		
	Control system			Electronic expansion valve			Electronic expansion valve		
Type of compressor				Twin Rotary - DC Inverter			Twin Rotary - DC Inverter		
Internal circulator				WILO Yonos PARA RS 25/7.5 RKC			WILO Yonos PARA RS 25/7.5 RKC		
Expansion tank	Volume		L	5			5		
	Pre-load		bar	1.5			1.5		
Hydraulic connections	Water inlet/outlet		Inches	1-1/4"M	1-1/4"M	1-1/4"M	1-1/4"M	1-1/4"M	1-1/4"M
Electrical data	Power supply		Ph-V-Hz	1ph-230V-50Hz			3ph-400V-50Hz		
	Maximum current		A	26.8			11		
	Power cable		type	3x6 mm²			5x2.5 mm²		
Control	Standard			Wire remote control			Wire remote control		
Sound pressure level at 1 m		Max	dB(A)	57.6	58	58.1	57.2	58.1	59
Sound power level		Max	dB(A)	68	71	71	68	71	71
Dimensions		LxDxH	mm	1404x405x1414			1404x405x1414		
Net weight			kg	158			172		

NOTE: 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.

HEATING

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MONOBLOC R32

NEW



Three-phase
18-22-26-30 kW
HCVWMS 1802 Z
HCVWMS 2202 Z
HCVWMS 2602 Z
HCVWMS 3002 Z

ENERGY EFFICIENCY CLASS

A+++

In heating mode with **35°C** delivery water temperature (models from 18 to 26 kW).

ENERGY EFFICIENCY CLASS

A++

In heating mode with **55°C** delivery water temperature (models from 18 to 22 kW).

Model				HCVWMS 1802 Z		HCVWMS 2202 Z		HCVWMS 2602 Z		HCVWMS 3002 Z	
Heating	Rated power	A7//W35	kW	18.00		22.00		26.00		30.10	
	Electrical absorption		3.83		5.00		6.37		7.70		
	Performance coefficient		4.70		4.40		4.08		3.91		
	Rated power	A7//W45	kW	18.00		22.00		26.00		30.00	
	Electrical absorption		5.143		6.471		8.387		10.345		
	Performance coefficient		3.50		3.40		3.10		2.90		
	Seasonal energy efficiency (ηs)	35/55	%	171.1/121.2		168.2/124.2		164.2/122.4		156.2/122.6	
Energy efficiency class	35/55	-	A+++/A++		A+++/A++		A+++/A++		A++/A+		
Cooling	Rated power	A35//W18	kW	18.50		23.00		27.00		31.00	
	Electrical absorption		3.895		5.00		6.279		7.75		
	Energy efficiency		4.75		4.60		4.30		4.00		
	Rated power	A35//W7	kW	17.00		21.00		26.00		29.50	
	Electrical absorption		5.574		7.119		9.63		11.569		
	Energy efficiency		3.05		2.95		2.70		2.55		
	Operating limits	Outside air temperature	Heating	°C	-25~35						
Cooling			-5~46								
DHW			-25~43								
Delivery water temperature		Heating	°C	25~60							
		Cooling		5~25							
		DHW		40~60							
Refrigerant	Type (GWP)			R32 (675)							
	Quantity (tons CO2)		kg (t)	5 (3.375)							
	Control system			Electronic expansion valve							
Type of compressor				Twin Rotary - DC Inverter							
Internal circulator				WILO Yonos PARA RS 25/7.5 RKC							
Expansion tank	Volume		L	8							
	Pre-load		bar	1.0							
Hydraulic connections	Water inlet/outlet		Inches	1-1/4" BSP		1-1/4" BSP		1-1/4" BSP		1-1/4" BSP	
	Power supply		Ph/V/Hz	3ph-400V-50Hz							
Electrical data	Maximum current		A	16.80		19.60		21.60		22.80	
	Power cable		type	5x6 mm²							
Wire control	Standard (included)			Wire remote control							
Sound pressure level at 1 m		Max	dB(A)	57.6		59.8		61.5		63.5	
Sound power level		Max	dB(A)	71		73		75		77	
Dimensions		LxDxH	mm	1129x440x1558		1129x440x1558		1129x440x1558		1129x440x1558	
Net weight			kg	177		177		177		177	

NOTE: 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.



HEATING

.....

HP SPLIT R32

NEW

OUTDOOR UNITS



Single phase 4~6 kW
HCEMS 400 Z
HCEMS 600 Z



Single phase 8~10 kW
HCEMS 800 Z
HCEMS 1000 Z

INDOOR UNIT



Single phase
HHNMS 4-6 Z
HHNMS 8-10 Z

TANK



WT-XL-DW1-200~500C
WT-AP-DW1-300~500C

COP 5.15 (4.20 kW)

CLASS ENERGY RATING

A+++ / A++



Eco mode

Energy saving function.



Disinfect

Activation of the anti-legionella function.



Timer

Daily and weekly.



Silent mode

Setting of two sound dampening levels and two timers.



Holiday mode

Timer setting during a selected period.



WiFi

Remote connection via built-in WiFi.



MODBUS

Wired remote control connection to MODBUS systems.

WIDE RANGE OF AMBIENT TEMPERATURE



COOLING

-5°/+43°

(outside temperature)



HEATING

-25°/+35°

(outside temperature)



DHW PRODUCTION

-25°/+43°

(outside temperature)

WIDE RANGE OF WATER TEMPERATURE



COOLING

+7°/+30°



HEATING

+25°/+60°



DHW PRODUCTION

+40°/+60°

HEATING

.....

HP SPLIT R32

4 OPERATING MODES

 COOLING

 HEATING

 DOMESTIC HOT WATER

 AUTOMATIC

3 COMBINED OPERATING MODES

 COOLING + DHW

 HEATING + DHW

 AUTOMATIC + DHW

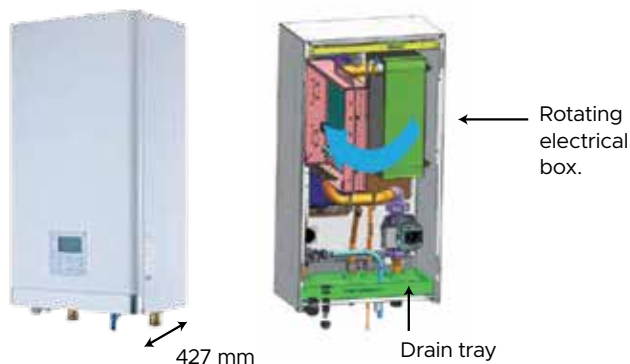


HEATING + DHW
operating mode

SIMPLE INSTALLATION AND MAINTENANCE

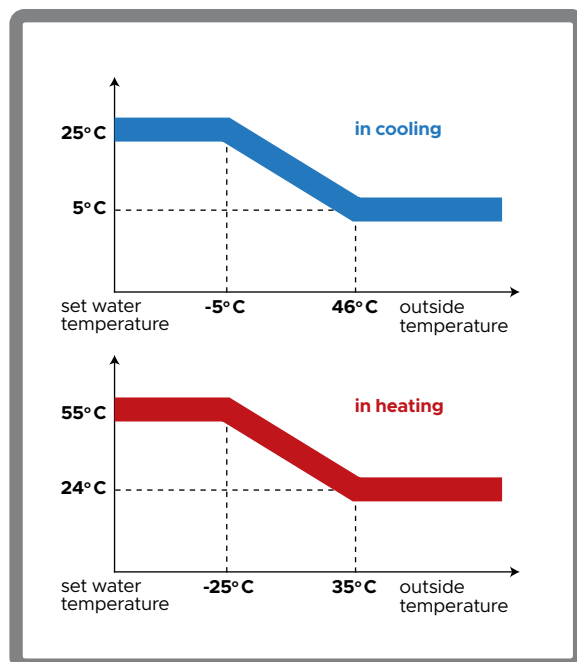
Extremely compact hydronic model (427 mm deep), suitable for replacing existing boilers.

The electrical box can be rotated to permit easy component installation and maintenance.



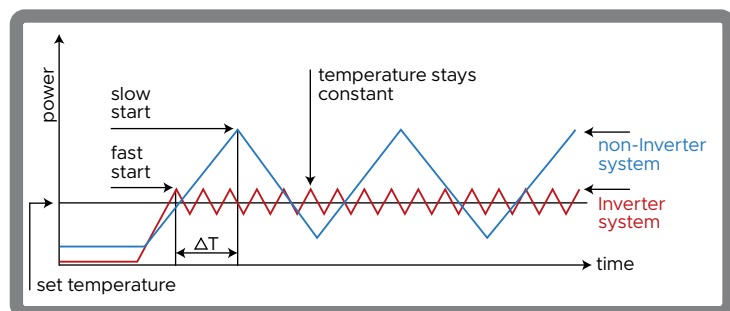
32 CLIMATIC CURVES

Absolute comfort with a climate curve that adapts to the climate. There are 32 pre-set climate curves to choose from, plus one customisable curve. Once the curve is selected, the unit sets the outlet water temperature according to the outside temperature.



CONSTANT WATER TEMPERATURE

Compressor rotation is precise and ensures that the water temperature is kept constant around a set value.

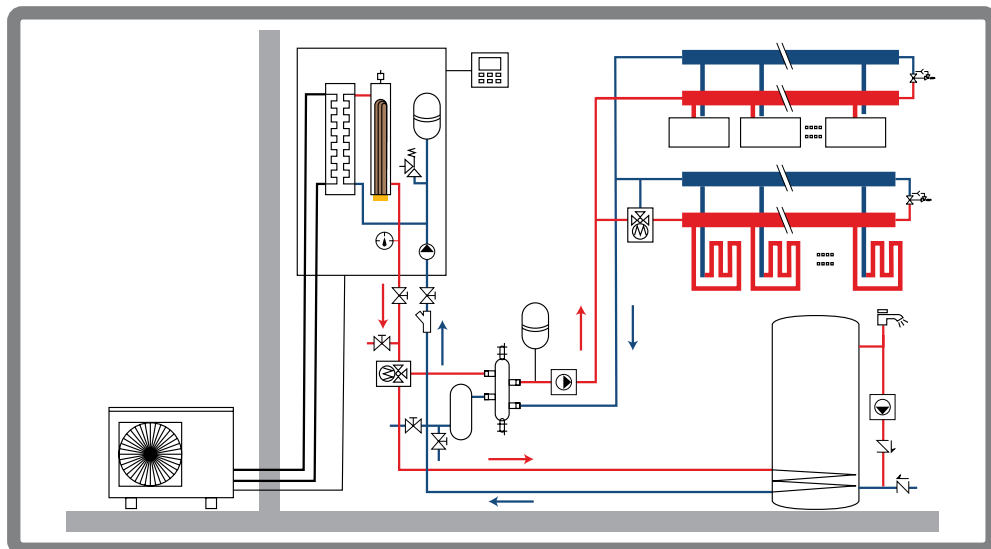


HEATING

.....

HP SPLIT R32

SYSTEM DIAGRAM



Outdoor unit model				HCEMS 400 Z	HCEMS 600 Z	HCEMS 800 Z	HCEMS 1000 Z
Heating	Rated power	A7/W35	kW	4.20	6.50	8.40	10.00
	Electrical absorption			0.82	1.35	1.73	2.15
	Performance coefficient		COP	5.15	4.85	4.85	4.65
	Rated power	A7/W45	kW	4.20	6.35	8.05	9.85
	Electrical absorption			1.15	1.74	2.16	2.72
	Performance coefficient		COP	3.65	3.64	3.73	3.65
	Rated power	A7/W55	kW	4.10	5.75	7.50	9.30
	Electrical absorption			1.44	1.98	2.49	3.25
	Performance coefficient		COP	2.85	2.90	3.01	2.86
	Seasonal energy efficiency (η _s)	35/55	%	187.5/130.6	187.5/130.6	188.4/128	188.4/128
Cooling	Energy efficiency class	35/55	-	A+++/A++	A+++/A++	A+++/A++	A+++/A++
	Rated power	A35/W18	kW	4.30	6.45	8.35	10.20
	Electrical absorption			0.77	1.32	1.79	2.40
	Energy efficiency		EER	5.60	4.88	4.67	4.25
	Rated power	A35/W7	kW	4.50	6.50	7.38	8.15
	Electrical absorption			1.36	2.20	2.44	2.76
Operating limits	Outside air temperature	Heating	°C	-25~35	-25~35	-25~35	-25~35
		Cooling		-5~43	-5~43	-5~43	-5~43
		DHW		-25~43	-25~43	-25~43	-25~43
				-25~43	-25~43	-25~43	-25~43
Electrical data	Power supply		Ph/V/Hz	1ph-220~240V-50Hz	1ph-220~240V-50Hz	1ph-220~240V-50Hz	1ph-220~240V-50Hz
	Maximum current		A	11.30	11.30	16.70	16.70
	Power cable		type	3x2.5 mm ²	3x2.5 mm ²	3x4 mm ²	3x4 mm ²
Refrigerant circuit	Refrigerant (GWP)			R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Pre-charge quantity (tons CO ₂)		kg (t)	1.55 (1.046)	1.55 (1.046)	1.65 (1.114)	1.65 (1.114)
	Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø15.88(5/8")			
	Max./Min. splitting length		m	30/2	30/2	30/2	30/2
	Max height difference O.U.-I.U./I.U.-O.U.		m	20/15	20/15	20/15	20/15
	Splitting length without additional load		m	15	15	15	15
	Additional load		g/m	20	20	38	38
Compressor	Type			Twin Rotary - DC Inverter	Twin Rotary - DC Inverter	Twin Rotary - DC Inverter	Twin Rotary - DC Inverter
Sound pressure level at 1 m (maximum value detected in tests)				dB(A)	46.5	49.5	52.4
Sound power level (maximum value detected in tests)				dB(A)	61	62	63
Fan air flow				m ³ /h	3300	3300	5000
Dimensions				LxDxH	mm	960x380x860	1075x395x965
Net				Weight	kg	57	67
Indoor unit model				HHNMS 4-6 Z		HHNMS 8-10 Z	
Operating limits	Delivery water temperature	Heating	°C	25~60		25~60	
		Cooling		7~30		7~30	
		DHW		40~60		40~60	
Electrical data	Power supply		Ph/V/Hz	1ph-220~240V-50Hz		1ph-220~240V-50Hz	
	Electrical integration		kW	Not present		Not present	
	Maximum current		A	0.40		0.40	
	Power cable		type	3x1.5 mm ²		3x1.5 mm ²	
Expansion tank	Volume		L	5		5	
	Pre-load		bar	1.5		1.5	
Circulation pump	Flow rate		L/h	600~1250		600~2100	
	Max static pressure		m	8.5		8.5	
Water/freon exchanger				type		Plate heat exchanger	
Maximum operating pressure				bar		3.0	
Hydraulic connections				Inches		ø1" BSP	
Sound power level				dB(A)		43	
Dimensions				LxDxH		mm	
Net				Weight		kg	
Wire control				Standard (included)		DHWZ CEM-Z	
						DHWZ CEM-Z	
						DHWZ CEM-Z	
						DHWZ CEM-Z	

NOTE: 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.



HEATING

.....

FAN COIL - HYDRONIC TERMINALS

NEW

THERMAL COMFORT FOR ALL SEASONS, IN A SINGLE DEVICE

Hokkaido FAN COIL terminals are cutting-edge products in terms of design, performance, quiet, consumption and functionality. They are perfect for all environments that need to be air conditioned, by heating or cooling, 365 days a year, 24 hours a day. Their versatility and ability to maintain indoor comfort make them products that can be installed both in homes and in other spaces such as offices, hotels, hospitals, airports, libraries, museums, archives, warehouses and basements.

BRUSHLESS MOTOR

Hokkaido FAN COILS are new energy-saving products with advanced DC technology.

These fan coils feature high energy efficiency, low noise operation and precise temperature control.

They are ideal for hospitals, offices, hotels, airports and various other applications.



DC Inverter motor

STANDARD INFRA-RED REMOTE CONTROL



4-way
84x84 cassette



4-way
60x60 cassette
Wall

Individual control

- Operating mode and temperature control.
- Speed control.
- Louver control.

THE DC BRUSHLESS FAN MOTOR IS THE TECHNOLOGICAL HEART OF THE HOKKAIDO FAN COIL RANGE

- High energy efficiency.
- Economic savings.
- Significant reduction in energy consumption compared to traditional fan coils with AC motor.
- Reduced CO2 emissions.

QUIET

The noise of the unit is 2-5 dB (A) lower than that of a fan coil unit with an AC motor, keeping the living environment quiet.



CENTRALIZED CONTROL FOR ALL TYPES OF FAN COILS

DHC TRKF-M



Centralized control

- LCD display.
- Soft touch buttons.
- Operating mode and temperature control.
- Speed control (high/medium/low).
- Daily on/off timer.
- Manages up to 64 fan coils.



HEATING

.....

FAN COIL - HYDRONIC TERMINALS

NEW

	models	250	300	500	700	750	800	950	1000	1200	1500
Cassette	compact 60x60  HTFMM W		•	•							
	84x84  HTBMM W					•		•		•	•
Ducted	 HRDMM W			•			•		•	•	
Wall	 HKEMM W	•		•			•				
Floor/ceiling	exposed  HFLMM W			•	•		•				
	recessed  HFYMM W			•	•		•				

OPTIONAL WIRE CONTROLS FOR FLOOR/CEILING AND DUCTED MODELS

The exposed, recessed and ducted floor/ceiling models allow the use of two optional wire control models (simplified or with MODBUS).

DHW FLY-RD-M



Individual control

- LCD display.
- Operating mode and temperature control.
- Speed control (7 levels).

DHWM FLY-RD-M



Individual control with MODBUS

- LCD display.
- Operating mode and temperature control.
- Speed control.
- Daily on/off timer.
- Eco mode.
- Compatible with MODBUS systems.

HEATING - FAN COIL - HYDRONIC TERMINALS

NEW

Compact cassette 60x60

HTFMM 300-500 W



Standard 8-way 360° panel

Compact dimensions: (261 mm height)

Condensate drain pump included

Pre-cut for outside air inflow

Remote control included

Model			HTFMM 300 W		HTFMM 500 W			
Power supply			V/Ph/Hz		220-240/1/50			
Air flow (H/M/L) ¹			m³/h		535/429/322		781/611/494	
Cooling ²	Power (H/M/L)		kW		2.98/2.53/2.00		4.2/3.48/3.01	
	Water flow (H/M/L)		m³/h		0.53/0.45/0.35		0.75/0.61/0.54	
	Water load loss (H/M/L)		kPa		10/7/5		12.32/8.62/7.4	
Water heating 45° C ³	Power (H/M/L)		kW		2.61/2.31/2.24		4.95/3.99/3.26	
	Water flow (H/M/L)		m³/h		0.64/0.54/0.42		0.87/0.70/0.58	
	Water load loss (H/M/L)		kPa		12.1/8.5/5.3		9.4/8.23/6.1	
Water heating 55° C ⁴	Power (H/M/L)		kW		4.01/3.35/2.61		5.76/4.69/3.84	
	Water flow (H/M/L)		m³/h		0.53/0.45/0.35		0.75/0.61/0.54	
	Water load loss (H/M/L)		kPa		8.2/6/3.8		11.41/6.5/5.41	
Electrical absorption (H)			W		15		33	
Sound pressure (H/M/L) ⁶			dB(A)		39/33/27		43/38/32	
Fan motor	Type	DC Brushless						
	Quantity	1						
Fan	Type	Centrifugal with forward curved blades						
	Quantity	1						
Coil	Rows	2						
	Maximum pressure	Pa	1.6					
Panel	Net dimensions (LxHxD)		mm		647x50x647		647x50x647	
	Net weight		kg		2.5		2.5	
	Gross weight		kg		4.5		4.5	
Cassette Body	Net dimensions (LxHxD)		mm		575x261x575		575x261x575	
	Net weight		kg		16.5		16.5	
	Gross weight		kg		22.5		22.5	
Hydraulic connections			G3/4					
Drain			OD 25					

Cassette 84x84

HTBMM 750-950-1200-1500 W



Condensate drain pump included

Pre-cut for outside air inflow

Remote control included

Model			HTBMM 750 W		HTBMM 950 W		HTBMM 1200 W		HTBMM 1500 W	
Power supply			V/Ph/Hz		220-240/1/50					
Air flow (H/M/L) ¹			m³/h		1229/1020/810		1530/1224/1101		1581/1371/1236	
Cooling ²	Power (H/M/L)		kW		6,12/5,45/4,60		7,84/6,84/6,35		7,87/7,12/6,67	
	Water flow (H/M/L)		m³/h		1,10/0,96/0,81		1,43/1,24/1,13		1,44/1,28/1,22	
	Water load loss (H/M/L)		kPa		21,3/21,3/12,4		22/17/14,1		22,3/18,1/16,3	
Water heating 45° C ³	Power (H/M/L)		kW		6,27/5,88/5,43		8,49/8/7,35		9,16/8,54/7,90	
	Water flow (H/M/L)		m³/h		1,39/1,20/1,00		1,71/1,45/1,33		1,73/1,57/1,46	
	Water load loss (H/M/L)		kPa		30/22,7/16,3		28,1/20,7/17,4		28,8/24,0/20,7	
Water heating 55° C ⁴	Power (H/M/L)		kW		8,62/7,49/6,27		10,86/9,24/8,49		10,92/9,84/9,16	
	Water flow (H/M/L)		m³/h		1,10/0,96/0,81		1,43/1,24/1,13		1,44/1,28/1,22	
	Water load loss (H/M/L)		kPa		19,1/14,8/10,6		19,9/15,2/12,6		20,0/16,2/14,7	
Electrical absorption (H)			W		49		76		85	
Sound pressure (H/M/L) ⁶			dB(A)		44/40/34		46/42/39		48/44/41	
Fan motor	Type	DC Brushless								
	Quantity	1								
Fan	Type	Centrifugal with forward curved blades								
	Quantity	1		1		1		1		
Coil	Rows	2		2		2		3		
	Maximum pressure	Pa		1,6						
Panel	Net dimensions (LxHxD)		mm		950x45x950		950x45x950		950x45x950	
	Net weight		kg		6		6		6	
	Gross weight		kg		9		9		9	
Cassette Body	Net dimensions (LxHxD)		mm		840x300x840		840x300x840		840x300x840	
	Net weight		kg		23		27		29,5	
	Gross weight		kg		28		33		34,5	
Hydraulic connections			"		G3/4					
Drain			mm		OD 32					

NOTES (1) H: High speed; M: Medium speed; L: Low speed - Useful static pressure recessed version: 12 Pa. (2) Cooling conditions: water in 7° C/ΔT 5° C; air in 27° C DB/19° C WB. (3) Heating conditions: water in 45° C, ΔT 5° C; air in 20° C DB. (4) Heating conditions: water in 55° C, ΔT 5° C; air in 20° C DB. (5) Heating conditions: water in 70° C, ΔT 10° C; air in 20° C DB. (6) Noise level tested in a semi-anechoic chamber, distance 1 m.

HEATING - FAN COIL - HYDRONIC TERMINALS

NEW

Ducted up to 50 Pa

HRDMM 500-800-1000-1200 W



Pre-cut for outside air inflow

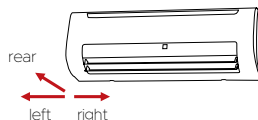
Remote control included

Model			HRDMM 500 W	HRDMM 800 W	HRDMM 1000 W	HRDMM 1200 W
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L) ¹		m³/h	887/620/443	1492/1071/797	1824/1332/906	2327/1669/1135
Static pressure		Pa	12 Pa (default); 30/50 Pa settable via switch on PCB			
Cooling ²	Power (H/M/L)	kW	3.83/3.16/2.55	6.7/5.49/4.45	7.92/6.62/5.15	9.83/8.5/6.46
	Water flow (H/M/L)	m³/h	0.68/0.56/0.46	1.19/0.96/0.80	1.43/1.17/0.91	1.74/1.42/1.12
	Water load loss (H/M/L)	kPa	23.7/17.1/11.9	15.1/10.89/7.82	23.2/16.44/10.94	50.33/30.4/21.71
Water heating 45° C ³	Power (H/M/L)	kW	4.84/3.9/3.01	8.39/6.64/5.2	9.92/7.94/5.86	12.58/10.24/7.57
	Water flow (H/M/L)	m³/h	0.84/0.69/0.53	1.46/1.17/0.91	1.69/1.38/1.01	2.17/1.79/1.34
	Water load loss (H/M/L)	kPa	30.8/32.4/20	13.26/13.1/8.28	19.72/18.87/11.07	38.30/41.81/26.5
Water heating 55° C ⁴	Power (H/M/L)	kW	5.6/4.49/3.45	9.87/7.83/6.29	11.63/9.37/6.96	14.58/11.82/8.83
	Water flow (H/M/L)	m³/h	0.68/0.56/0.46	1.19/0.96/0.80	1.43/1.17/0.91	1.74/1.42/1.12
	Water load loss (H/M/L)	kPa	29.04/14.16/9.71	19.36/9.03/6.4	26.68/13.96/9.1	60.7/26.5/17.8
Electrical absorption (H)		W	45	66	100	119
Sound pressure (H/M/L) ⁶		dB(A)	44.6/36.8/29.4	47.7/39.4/31.1	50.2/43.0/33.0	50.9/44.0/33.8
Fan motor	Type		DC Brushless			
	Quantity		2			
Fan	Type		Centrifugal with forward curved blades			
	Quantity		2	4	4	4
Coil	Rows		2	2	2	2
	Maximum pressure	Pa	1.6			
Product specifications	Net dimensions (LxHxD)	mm	941x241x522	1461x241x522	1566x241x522	1856x241x522
	Net weight	kg	20	31.4	32.5	37.5
	Gross weight	kg	23.2	35.8	37.2	42.8
Hydraulic connections		"	G3/4			
Drain		mm	OD 25			

Wall

HKEMM 250-500-800 W

Multi-directional piping outlet



Positioning of motorized louvers
Removable front panel

Remote control included

Model			HKEMM 250 W	HKEMM 500 W	HKEMM 800 W
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L) ¹		m³/h	492/454/400	862/741/634	1824/1332/906
Cooling ²	Power (H/M/L)	kW	2.7/2.59/2.39	4.47/3.98/3.48	7.92/6.62/5.15
	Water flow (H/M/L)	m³/h	0.48/0.46/0.42	0.77/0.68/0.61	1.43/1.17/0.91
	Water load loss (H/M/L)	kPa	31.61/28.63/25.36	41.17/33.54/27.05	23.2/16.44/10.94
Water heating 45° C ³	Power (H/M/L)	kW	2.94/2.8/2.58	4.84/4.23/3.62	9.92/7.94/5.86
	Water flow (H/M/L)	m³/h	0.51/0.49/0.46	0.84/0.73/0.64	1.69/1.38/1.01
	Water load loss (H/M/L)	kPa	32.66/34.89/30.24	36.82/33.83/26.26	19.72/18.87/11.07
Water heating 55° C ⁴	Power (H/M/L)	kW	3.29/3.03/2.63	5.68/4.94/4.24	11.63/9.37/6.96
	Water flow (H/M/L)	m³/h	0.48/0.46/0.42	0.77/0.68/0.61	1.43/1.17/0.91
	Water load loss (H/M/L)	kPa	37.49/30.25/26.53	43.74/29.69/23.98	26.68/13.96/9.1
Electrical absorption (H)		W	13	26	100
Sound pressure (H/M/L) ⁶		dB(A)	32/30/27	23/16/12	50.2/43.0/33.0
Fan motor	Type		DC Brushless		
	Quantity		1		
Fan	Type		Tangential		
	Quantity		1	1	1
Coil	Rows		2	2	2
	Maximum pressure	Pa	1.6		
Product specifications	Net dimensions (LxHxD)	mm	915x290x230	1072x315x230	1072x315x230
	Net weight	kg	12.7	15.1	14.9
	Gross weight	kg	17.3	19	18.6
Hydraulic connections		"	G3/4		
Drain		mm	OD 20		

NOTES (1) H: High speed; M: Medium speed; L: Low speed - Useful static pressure recessed version: 12 Pa. (2) Cooling conditions: water in 7° C/ΔT 5° C; air in 27° C DB/19° C WB. (3) Heating conditions: water in 45° C, ΔT 5° C; air in 20° C DB. (4) Heating conditions: water in 55° C, ΔT 5° C; air in 20° C DB. (5) Heating conditions: water in 70° C, ΔT 10° C; air in 20° C DB. (6) Noise level tested in a semi-anechoic chamber, distance 1 m.

HEATING - FAN COIL - HYDRONIC TERMINALS

NEW

Exposed floor/ceiling

HFLMM 501-701-801 W



Vertical or horizontal installation

Compact dimensions: (200 mm deep)

Elegant design

Remote control included

Model			HFLMM 501 W	HFLMM 701 W	HFLMM 801 W
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L) ¹		m³/h	790/580/410	1190/855/505	1360/1015/685
Cooling ²	Power (H/M/L)	kW	4.30/3.48/2.71	5.60/4.47/3.14	7.35/6.12/4.57
	Water flow (H/M/L)	m³/h	0.74/0.60/0.47	0.96/0.77/0.54	1.27/1.05/0.79
	Water load loss (H/M/L)	kPa	54.2/36.22/22.78	50.7/33.38/17.73	44.1/33.7/19.41
Water heating 45° C ³	Power (H/M/L)	kW	4.70/3.70/2.81	6.00/4.77/3.36	8.05/6.46/4.71
	Water flow (H/M/L)	m³/h	0.81/0.64/0.48	1.04/0.83/0.59	1.39/1.12/0.82
	Water load loss (H/M/L)	kPa	54.3/36.87/22.32	55.5/37.66/19.27	46.9/31.9/18.16
Electrical absorption (H)		W	50	96	113
Sound pressure (H/M/L) ⁶		dB(A)	59/51/43	64/56/45	63/58/49
Fan motor	Type		DC Brushless		
	Quantity		1		
Fan	Type		Centrifugal with forward curved blades		
	Quantity		2	3	3
Coil	Rows		3	3	3
	Maximum pressure	Pa	1.6		
Product specifications	Net dimensions (LxHxD)	mm	1240x495x200	1360x495x200	1360x591x200
	Net weight	kg	25.5	28.5	32.5
	Gross weight	kg	32.5	36	41
Hydraulic connections		"	G3/4		
Drain		mm	OD 18.5		

Recessed floor/ceiling

HFYMM 501-701-801 W



Vertical or horizontal installation

Compact dimensions: (200 mm deep)

Remote control included

Model			HFYMM 501 W	HFYMM 701 W	HFYMM 801 W
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L) ¹		m³/h	790/580/410	1190/855/505	1360/1015/685
Cooling ²	Power (H/M/L)	kW	4.30/3.48/2.71	5.60/4.47/3.14	7.35/6.12/4.57
	Water flow (H/M/L)	m³/h	0.74/0.60/0.47	0.96/0.77/0.54	1.27/1.05/0.79
	Water load loss (H/M/L)	kPa	54.2/36.22/22.78	50.7/33.38/17.73	44.1/33.7/19.41
Water heating 45° C ³	Power (H/M/L)	kW	4.70/3.70/2.81	6.00/4.77/3.36	8.05/6.46/4.71
	Water flow (H/M/L)	m³/h	0.81/0.64/0.48	1.04/0.83/0.59	1.39/1.12/0.82
	Water load loss (H/M/L)	kPa	54.3/36.87/22.32	55.5/37.66/19.27	46.9/31.9/18.16
Electrical absorption (H)		W	50	96	113
Sound pressure (H/M/L) ⁶		dB(A)	59/51/43	64/56/45	63/58/49
Fan motor	Type		DC Brushless		
	Quantity		1		
Fan	Type		Centrifugal with forward curved blades		
	Quantity		2	3	3
Coil	Rows		3	3	3
	Maximum pressure	Pa	1.6		
Product specifications	Net dimensions (LxHxD)	mm	1087x455x200	1207x455x200	1207x550x200
	Net weight	kg	17.3	19.6	23.1
	Gross weight	kg	24	26.4	30.2
Hydraulic connections		"	G3/4		
Drain		mm	OD 18.5		

NOTES (1) H: High speed; M: Medium speed; L: Low speed - Useful static pressure recessed version: 12 Pa. (2) Cooling conditions: water in 7° C/ΔT 5° C; air in 27° C DB/19° C WB. (3) Heating conditions: water in 45° C, ΔT 5° C; air in 20° C DB. (4) Heating conditions: water in 55° C, ΔT 5° C; air in 20° C DB. (5) Heating conditions: water in 70° C, ΔT 10° C; air in 20° C DB. (6) Noise level tested in a semi-anechoic chamber, distance 1 m.

HEATING

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HOT WATER

Water heater with heat pump

300/500 litre "Ducted" monobloc series

Possibility of integration with solar thermal



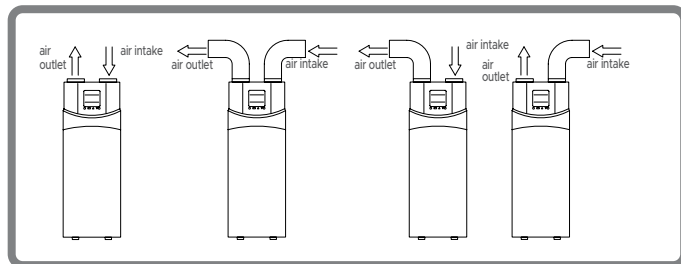
Certification EN 16147 from a third-party accredited laboratory BUREAU VERITAS.



Anti-legionella cycle

ErP Ready

4 INSTALLATION MODES



HWMAS 3200 HEA-3
HWMAS 5400 HEA-3

Water heater with heat pump, monobloc on base with the possibility of integration with solar thermal

R134A | Refrigerant gas.

300 or 500 litres | Stainless steel tank.

60° C | Hot water with the compressor only.

COP 2.67* | For 300 litre model.

COP 2.69* | For 500 litre model.

Anti-legionella cycle | Can be customized for different needs or can be excluded.

Innovative soft touch control panel to facilitate commissioning, use and maintenance.

* In accordance with EN 16147

ENERGY EFFICIENCY CLASS

HWMAS 3200 HEA-3



HWMAS 5400 HEA-3

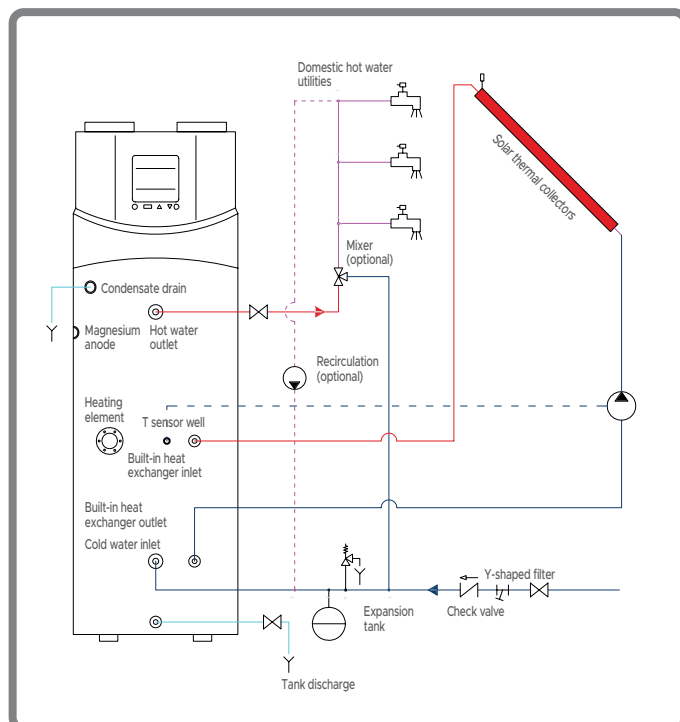


Model		HWMAS 3200 HEA-3	HWMAS 5400 HEA-3
Tank volume	L	300	500
Solar integration coil (stainless steel)	m ²	1.0	1.0
Rated thermal power ¹	W	1840	3700
Rated power consumption ¹	W	533	1093
Rated hot water production capacity ¹	L/h	45	85
COP (rated) ¹	W/W	3.45	3.39
COP _{DHW} ²	W/W	2.67	2.69
Test cycle profile ²	-	XL	XXL
Volume of hot water at 40°C ²	L	351	501
Energy Efficiency Class ³	-	A	A
IP Degree of protection	-	IPX1	IPX1
Hot water T. adjustment interval	°C	10~70 (50 default)	10~70 (50 default)
Maximum DHW temperature only compressor	°C	60	60
Electrical data	Power	Ph-V-Hz 1-220~240-50	1-220~240-50
	Integrative heating element	W 1600	1600
	Maximum current (including heating element)	A 10.0	13.0
Refrigerant	Type (GWP)	- R134a (1430)	R134a (1430)
	Quantity	kg 0.80	1.45
	Tons of CO2 equivalent	t 1.144	2.074
Compressor	-	Rotary (ON/OFF)	Rotary (ON/OFF)
Dimensions	Unit Ø x H	mm 640 x 1845	700 x 2230
Net weight	kg	104	122
Sound power level	dB(A)	59	60
Sound pressure level at 2 m	dB(A)	46	45
Tank	Tank material	- Stainless steel	Stainless steel
	DHW hydraulic connections	("- DN) 1" - DN25	1" - DN25
	Hydraulic solar coil connections	("- DN) 3/4" - DN20	3/4" - DN20
	Magnesium anode	- G3/4" - Ø 21x300	G3/4" - Ø 21x300
	Maximum operating pressure	bar 10	10
Suctioned air	Operating range	°C -5~+43	-5~+43
	Rated flow (not ducted)	m ³ /h 450(@60Pa)	400(@60Pa)
	Air flow (ducted)	m ³ /h 400(@60Pa)	350(@60Pa)
	Air duct - Diameter	mm 177	177
	Air duct - Length	m 6	6

1. Conditions: suctioned 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 - ERP EU no. 814/2013 (BUREAU VERITAS certification).

HYDRAULIC CONNECTIONS DIAGRAM





CONTROLS



CONTROLS



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CONTROLS

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INDIVIDUAL R32 SERIES CONTROLS



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
ACTIVE

- 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
console
compact cassette 60x60
slim cassette 84x84
medium static pressure duct
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.

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OPTIONAL INDIVIDUAL R32 CONTROLS



DTWS 4 IHXR Compact

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

CONTROLS

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OPTIONAL R32 AND P SERIES CENTRALIZED CONTROLS



DTCWT IHXR

- Manages up to a 64 I.U.
- Weekly timer.
- Memory.
- Function lock.
- Operating and room temperature detection.
- Error detection.



DTC IHXR Touch

- Touch screen wired remote control.
- LCD backlighting.
- Manages up to 64 I.U. individually or by creating groups of units.
- Enabling/disabling of the I.R. remote controls.
- Fan speed: low, medium, high or automatic.
- Mode: cooling, heating, dehumidifying, ventilation, automatic.
- On/off timer.
- Positioning of motorized louvers.
- Key lock.

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INDIVIDUAL P SERIES 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.

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P SERIES GROUP 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.

CONTROLS

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OPTIONAL P SERIES CENTRALIZED 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
Coming soon

- 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.

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OPTIONAL ACCESSORIES



DTA-IHXR

- Power consumption detector.
- Digital ammeter up to 60 A for measuring the electrical consumptions of the XRV outdoor units.
- Accessory can only be integrated with centralizer DHC-48-384-XRV-P.



DTA100-XRV-K-P-I

- Power consumption detector.
- Digital ammeter up to 100 A for measuring the electrical consumptions of XRV outdoor units.
- Accessory can only be integrated with centralizer DHC-48-384-XRV-P.

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INTERFACES FOR BMS PROTOCOLS

DTMOD IHXR

Modbus

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

DHLON-XRV

Lonworks

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

DBAC IHXR

Bacnet Gateway

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

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OPTIONAL INDIVIDUAL CONTROL FOR "AUTO" FUNCTION Exclusive for 3-pipe systems



DTW Auto4 XRV

- Mode: cooling, heating, dehumidifying, ventilation, automatic.
- Clock and On/off timer.
- Silent mode.
- Reminder of filter cleaning.
- Operating and room temperature detection.
- Vertical louver swing.



DTIR Auto4 XRV

- Mode: cooling, heating, dehumidifying, ventilation, automatic.
- On/off timer.
- Eco function.
- 26° C button.
- Follow Me function.
- Vertical and horizontal louver swing.

CONTROLS

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CENTRALIZED CONTROL XRV MOBILE BMS

Wi-Fi control unit for iPad or PC control of indoor units of a commercial system or an XRV system



Wi-Fi



Available for iOS devices from the Apple App Store.

All the functions of the Hokkaido 2.0 app:

- Switching on/off - identification of indoor units.
- Operating mode.
- Maximum and minimum temperature limits.
- Fan speed - motorized louver movement.
- Remote control enabling/disabling.
- Up to 59 weekly programs (with easy setting and activation/deactivation button, audible and visual alarm signalling, automatic alert via email to 3 set addresses, using the web connection).
- Password access.
- Manages up to 64 I.U. individually or by creating groups of units.
- Weekly operating timer settings.

To control your system freely and at any time of day

The new centralized XRV mobile BMS control has been designed to ensure the utmost ease of use of Hokkaido systems. XRV mobile BMS is equipped with a Wi-Fi module for configuration and local management via iPad or Windows PC. Once configured correctly, you can control your system even remotely, in a local network using a Wi-Fi router or via web by registering and connecting to **www.hokkaidobms.eu**.

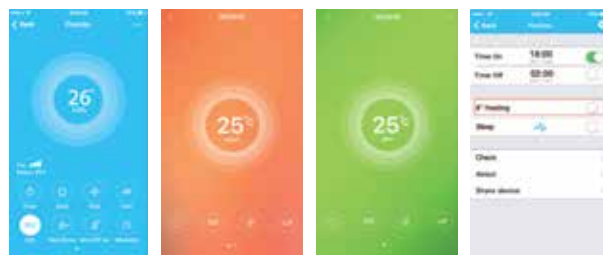
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HOKKAIDO WIFI

HKM-WIFI and HKM-WIFI LCAC Wi-Fi controls



Some examples of screens from iOS devices



All your main air conditioning settings right from your smartphone.

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

Hokkaido provides two different 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 LCAC:** for commercial indoor units (cassette, ducted, floor/ceiling).

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.

CONTROLS

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NEW PROGRAM FOR XRV SYSTEMS SIZING

NEW

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

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INDOOR UNITS									
RAC wall			PAC Hybrid					XRV Systems	
Active	V-Design Plus	Inazami	HFIU	HSFI/HSFU	HUCI/HUCU	HTFU	HTBI	XRV-K	XRV-P

Wire control

DTWS4 IHXR Compact			*	*	*	*	*	*	
DHW-5-6-XRV-P									*
DHWT-16-XRV-P									*

Centralized control

DTC IHXR Touch			**	*	*	*	*	*	*
DTCWT IHXR			**	*	*	*	*	*	*
XRV Mobile BMS			**	*	*	*	*	*	*
DHC-8-64-XRV-P									*
DHC-48-384-XRV-P									*

WiFi Module

HKM-WiFi	*	*	*						
HKM-WiFi LCAC				*	*	*	*		

* Provide a NIM-GRH interface on each indoor unit

APPENDIX

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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.

ICON KEY

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	REFRIGERANT GAS R32		LIGHT EFFECTS		DEHUMIDIFICATION
	COMPACT DESIGN		AUTOMATIC BRIGHTNESS ADJUSTMENT		TURBO FUNCTION
	3D COAXIAL FAN Reducing the resistance to fan rotation allows greater heat exchange.		FOLLOW ME FUNCTION Activates the temperature sensor in the remote control.		SELF-DIAGNOSIS FUNCTION
	OUTSIDE AIR Pre-cut for external air intake fitting.		AUTORESTART FUNCTION Resets pre-defined settings after a blackout.		SLEEP FUNCTION
	LOW ACOUSTIC IMPACT		BIO-FILTER		WIFI READY
	EASY INSTALLATION		AIR GUARDIAN FILTER		3D AIR FLOW
	INTELLIGENT INTERNAL FAN CONTROL Automatic fan adjustment during thermostat start or stop.		ION GENERATOR		BREEZY AWAY Prevents cold currents.
	GEAR FUNCTION		24H TIMER		REMOTE CONTROL
	OPERATING RANGE Minimum or maximum operating values.		TIMER WITH DELAYED PROGRAMMING		WIRED REMOTE CONTROL
			COMPUTERISED DEFROST		









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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.





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