HOKKAIDO

Experience makes technology

GENERAL CATALOGUE 2019

RESIDENTIAL | COMMERCIAL
PROJECT VRF | HEATING

www.hokkaido.it


20
ANNI
1999 2019

2019

HOKKAIDO

Experience makes technology

GENERAL CATALOGUE

Hokkaido, a leading company in the air conditioning market in Italy and Europe, stands apart as a company able to meet all supply needs, satisfying even the most demanding customers.

Their own brand products are recognised for their excellent value for money and for their reliability. The extent of the range offered, before and after sale services, and direct logistics management are the highlights of the 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, and a vast assortment of spare parts and accessories that can be ordered on-line and available in 24 hours.

20 ANNI
1999 • 2019

1999-2019: HOKKAIDO TURNS TWENTY

The Hokkaido brand, a recognized leader in Italy and Europe in the air conditioning sector for residential, commercial and industrial applications, is 20 years old.

Proud of our long journey we can declare that 2019 is a special year for Hokkaido. **This year Hokkaido celebrates 20 years of experience in proposing reliable and highly technological products.**. The origins of the brand date back to the end of 1998, the year in which the Thermal group's aim was to launch the distribution of a selection of products for residential air conditioning, whose *affordable* value was strongly perceived by the market of that time and of the years to come. 1999 was not only the year in which the distribution of Hokkaido products had a capillary development throughout Italy, through the channel of professional installers and the national network of consumer electronics stores: during the early 2000s Hokkaido brand developed a dense network of distributors and partners also throughout Europe, in dozens of European and non-European countries.

AN INTERNATIONAL BUSINESS

During 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.

A great attention to customer's needs has contributed to the success of the Hokkaido brand. In particular, special care has been given to the logistics organisation, which has always been Termal Group's point of excellence: quick deliveries throughout the EU, a vast assortment of spare parts and accessories that can be ordered on-line and available in 24 hours, technical and training support both *on-site* and at Termal Group's 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 area for product storage) 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 with the outside and large spaces for free time after work - such as the swimming pool, gym, tennis court, soccer field, guest house and restaurant - gives the headquarters a human scale. Termal has been qualified as one of the “best places to work” in Italy, for it has always been able to anticipate the future.

OUR **MISSION**

Being constantly engaged in improving the climate throughout the world also means making a commitment to the intelligent use of energy in order to protect the environment.

THE NETWORK

Hokkaido products are distributed on the Italian and International market. In Italy, distribution is nationwide throughout the territory, through a network of partners, composed of specialised wholesalers and installers. Abroad, distribution moves through an international network composed of dealers and partner distributors who can count on integrated logistics able to deliver quickly throughout Europe.

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 the educational arena is very important for the professional growth of its Customers. For this reason, it organises training modules for technical learning, updating and specialisation.

The Academy Centre, situated at the Bologna headquarters, is composed of classrooms dedicated to theoretical lessons, as well as classrooms for demonstrations and practical lessons. In these classrooms, operating systems of the different families of air conditioning products are installed with their corresponding control devices.

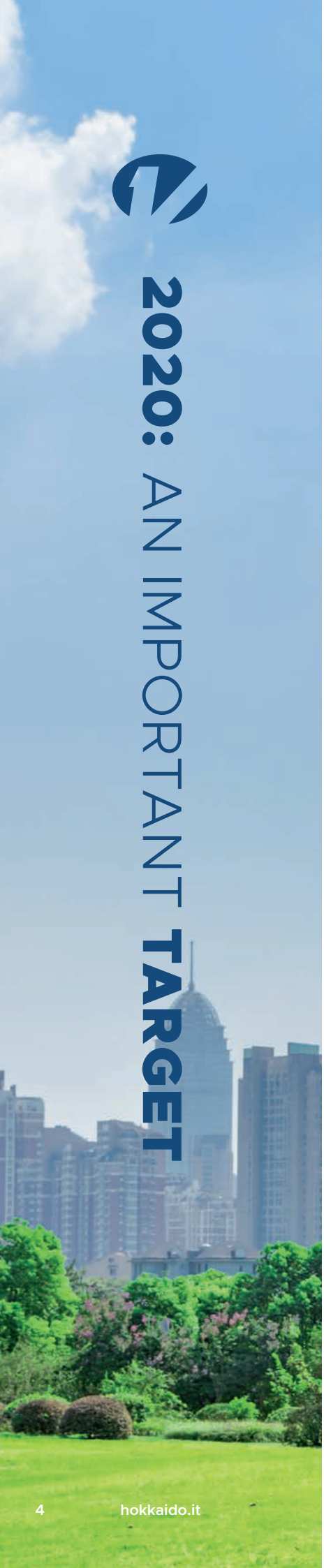
The courses meet the training needs of various users, regarding installation, and the assistance and maintenance of residential, commercial, VRF and hydronic systems.

All training modules consist of a theoretical part and an installation/operation part. Moreover, these courses take all the main regulatory updates into account.

Training courses are always up-to-date 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 “Easy Solution” software

At the end of each course, participants will receive a participation certificate and handouts related to the technical topics dealt with.



2020: AN IMPORTANT TARGET

ERP ECODESIGN DIRECTIVE

Eco-design of energy-related products (ErP: Energy related Products).

-20% greenhouse gas emissions

-20% energy demand

+20% renewable energy

ADVANTAGES

TO THE ENVIRONMENT

The Directive requires that Manufacturers promote the development of more efficient appliances.

This will leads to a reduction in the consumption of valuable natural resources, minimising the environmental impact.

The increased quality and quantity of information improves transparency on air conditioning energy consumption.

FOR THE CONSUMER

The European ErP directive:

- aims to increase the minimum efficiency of air conditioners, at the same time reordering the air conditioning sector by prohibiting the importing and production of products which are no longer considered efficient
- ensures that differences between the regulations of the various European countries do not become obstacles in the intra-European market.
- obliges manufacturers to provide consumers with more details and information, thus allowing them to make more informed purchasing choices

Over 80% of the environmental impact of a product is determined at the design stage. Ecodesign implies taking into account all the environmental impacts of a product from the very first design stages.

The purpose of this standard was to promote eco-compatible design of energy-using products and reducing consumption of CO2 emissions to help meet the strategic European '20 - 20 - 20' plan through an incremental evolution, which means that, by 2020:

- 20% reduction of primary energy consumption
- 20% reduction of CO2 emissions
- Use of 20% of renewable energy

On 1 January 2013, the new minimum energy efficiency values came into force, to be complied with in the production of new air-conditioning appliances. This is required by the European Directive ErP (Energy Related Products) which has introduced:

- methods for the calculation of energy efficiency, including the seasonal efficiency parameter SCOP for heating and SEER for cooling;
- the obligation for manufacturers to comply with these new minimum levels of energy efficiency, together with the maximum set values of sound power referred to all new products on the market.

These new parameters have encouraged manufacturer to seek and adopt new design methods. The most evident impact will regard the use of heat pumps as primary heating of residential environments.

The regulations are being revised, in particular those referring to products with cooling capacity <12kW.

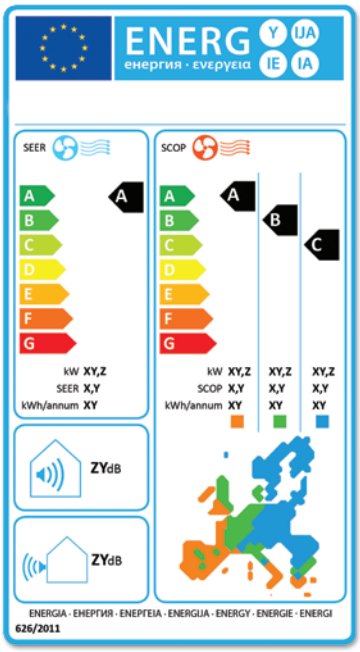
LABEL
EFFICIENCY

SEER

COOLING
- Energy Class
- kW
- Seasonal Energy Efficiency
- Annual kW

Indoor unit noise

Outdoor unit noise



SCOP

HEATING
(mandatory)
Temperate regions
- Energy Class
- kW
- Seasonal Coefficient of Performance
- Annual kW

HEATING (optional)
Cold regions
- Energy Class
- kW
- Seasonal Coefficient of Performance
- Annual kW

HEATING (optional)
Warm regions
- Energy Class
- kW
- Seasonal Coefficient of Performance
- Annual kW

In 2017, the new regulation on energy labelling (EU Reg. 1369/2017) has established several new developments also aimed at simplifying reading for end users. The regulation provides for the progressive replacement of the current A+, A++ and A+++ classes with the A-G scale and has defined the procedure for rescaling labels on the basis of technological developments in products. Diversified timelines are indicated for the first rescaling of all labelled products, based on three different categories:

- 15 months (November 2018) for "white" products (dishwashers, refrigerators, washing machines), plus 12 additional months for the appearance of the label in stores.
- 6 months (November 2023) as a general term for other products plus 18 months for the appearance of the label in stores.
- 9 months (November 2026) for hydronic heating systems with a 13-year sunset clause.

Activation of the new label for the products in this catalogue will not occur prior to 6 years. The current provisions of Regulation 626/2011 in force since 1 January 2013 continue to remain in force, providing for:

- sub-division into classes
- 7 energy efficiency classes
- colour scale: bright green indicates high energy efficient products, red indicates low energy efficiency products.

The labelling regulations are uniform in all 28 EU member states and neutral language, since texts have been replaced by pictograms that inform consumers about appliance characteristics and performance at a glance.

The usual sound pressure indication, present in all commercial catalogues (pressure wave amplitude, sound wave influenced by the environment) is replaced by the sound power parameter (energy emitted per unit of time, independent of the environment where the noise is radiated), whose value is higher than that of the sound pressure.

Product promotional and communication material must contain reference to the energy efficiency class of the air conditioner.

GENERAL INDEX

CONTENTS

HOKKAIDO

RESIDENTIAL AND COMMERCIAL R32

WELL-BEING FOR YOUR HOME

The most demanding customers, in tune with technological evolution and the benefits deriving from it as well as respect for the environment, will find a concrete answer in the new **RESIDENTIAL R32** line. This line offers a selection of the best available on the market today for residential environment installations.

RESIDENTIAL AND COMMERCIAL R32

HOKKAIDO

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

REDUCED BY THE GREENHOUSE EFFECT

LESS ENVIRONMENTAL IMPACT

WHAT IS REFRIGERANT R32 GAS?

The specific name of the R32 gas is difluoromethane. Currently, it is present among the low-value GWP fluorinated gases, equal to 675, and is used in air-conditioning units intended for residential use. It cannot be used in air conditioning units with direct expansion for tertiary and industrial use with a high refrigerant content, such as VRF systems, since it does not comply with some current regulations*. There is no obligation to replace the current R410A gas, which therefore remains regularly on the market, except in monosplit applications with refrigerant <3 kg where, starting from 2025, the use of gas with GWP<750 will be mandatory.

ADVANTAGES OF R32 GAS

- R32 has a GWP of 675 - 68% less than R410A gas with GWP 2088.
- It requires 20% less charge than R410A gas.
- It is more efficient than the R410A gas, from 3% to 5%.
- It allows the threshold to be overcome which obliges a characteristic leakage control limit today of 2.4 kg for R410A gas.

WARNINGS FOR USE

When storing units containing R32, it may be necessary, depending on the quantities stored, to revise the Fire Prevention Certificate to guarantee the validity of its insurance guarantee (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, maintaining a strict regulation in maritime and aeronautical 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 (in case of leakage) high quantities of refrigerant in small-sized environments. 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 shows 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 18/07/2101.

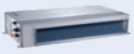
The design, installation and maintenance of appliances with R32 gas are regulated by the following standards: Ministerial Decree 37/2008 provisions concerning the installation of plants inside buildings, Leg. Decree 81/2008 text on health and safety at work, F-gas 517/2014 regulation of fluorinated gases,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

Scrupulous checking of existing regulations is recommended when using equipment containing R32 gas. Failure to comply with these regulations requires the designers and installers of equipment with R32 to have a direct legal responsibility for their application.

* Italy applies a ban on flammable refrigerant for applications such as in hotels (Min.Decree 09/04/1994), shopping centres (Min-Decree 27/07/2010), buildings for public performance (Min.Decree 19/08/1996), hospitals (Min.Decree 18/09/2012), schools (Min.Decree 26/08/1992), offices (Min.Decree 22/02/2006), play grounds for children (Min. Decree 16/07/2014), airports (Min.Decree 07/07/2014) and interports (Min.Decree 18/07/2014).

RESIDENTIAL AND COMMERCIAL R32 - LINE UP

MONOSPLIT NEW

kW	2.60	3.50	5.30	7.10	8.80	10.80	12.30	14.00	16.00
TOP CLASS DC INVERTER									
Wall	HKEU ZAL*	HKEU ZAL*							
ACTIVE LINE DC INVERTER									
Wall 	HKEU ZAL*	HKEU ZAL*	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	HTBI ZA
Ducted with medium head Pa 		HUCI ZA	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	HSFI ZA1
Outdoor units 									

* Can also be installed in multisplit version.

MULTISPLIT NEW

kW	4.10	5.30	6.15	7.90	8.20
No. connectable indoor units	2	2	3	3	4
	 HCKU 470 Z2	 HCKU 530 Z2	 HCKU 600 Z3	 HCKU 760 Z3	 HCKU 810 Z4
HKEU 264 ZAL	•	•	•	•	•
HKEU 354 ZAL	•	•	•	•	•
 HKEU 203 ZL	•	•	•	•	•
HKEU 263 ZAL	•	•	•	•	•
HKEU 353 ZAL	•	•	•	•	•
HKEU 533 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 and- I.T. 27° C DB, 19° C WB and- I.T.

TOP CLASS DC INVERTER
Wall

NEW

Refrigerant leak detection

Active only in cooling mode, it allows to identify compressor malfunctions following the refrigerant leak.

Cold currents prevention

Through this function in heating mode, it is possible to avoid the introduction of cold air into the room following the defrost cycles.

24H timer

This function allows users to select delayed air conditioner on and/or off within 24 hours, either via remote (standard) or via Wi-Fi (optional).

Anti-freeze function 8° C

In the event of prolonged absence, a minimum temperature level can be guaranteed inside the rooms.
By activating the anti-freeze function, when a temperature lower than 8° C is detected in the room, the system starts until this temperature is reached.

Sleep mode

It allows lowering energy consumption at night. In cooling mode, the system increases the ambient temperature within 2 hours, by 2° C (in heating mode the system lowers the temperature by 2°C). At the end of 2 hours the fan of the indoor unit works at low speed. The system keeps the room temperature constant for the next 5 hours.

Silence mode

This function allows the operating speed of the compressor of the outdoor unit and the fan of the indoor unit to be reduced to a minimum, so as to reduce noise and energy consumption to a minimum.

RESIDENTIAL AND COMMERCIAL R32

TOP CLASS DC INVERTER

Wall HKEU 264-354 ZAL

NEW

Wi-Fi
(optional)

Infrared remote control

- "3D" air diffusion
- Photocatalytic filter
- Position memorization function louvres

Main features

Models available in 2 power sizes 2.64 ~ 3.52 kW.

Seasonal energy efficiency class in cooling/heating mode: A+++/A++ (2.64 kW); A++/A++ (3.52 kW).

SEER/SCOP values 8.5/4.6 (2.64 kW).

Operating range in cooling and heating: -15~43° C; -30~30° C.

Extremely quiet: 21.5 dB(A) (2.64 kW); 22 dB(A) (3.52 kW).

Compact dimensions: only 189 mm deep.

Installation flexibility: up to 25 m splitting length and 10 m height difference between O.U. and I.U.

Possibility of access to tax deductions and to the thermal account.

Indoor unit model			HKEU 264 ZAL	HKEU 354 ZAL
Outdoor unit model			HCNI 264 ZA	HCNI 354 ZA
Type			DC-Inverter heat pump	
Control			Remote control	
Rated capacity (T=+35°C)	Cooling	kW	2.64 (0.91~4.40)	3.52 (0.93~4.75)
Rated absorbed power (T=+35°C)		kW	0.60 (0.05~1.55)	0.98 (0.05~1.59)
Rated energy efficiency coefficient		EER[3]	4.40	3.59
Seasonal energy efficiency class		626/2011[1]	A+++	A++
Seasonal energy efficiency index		SEER[2]	8.5	8.1
Annual energy consumption		kWh/a	111	155
Theoretical load (Pdesignc)		kW	2.7	3.5
Rated capacity (T=+7°C)	Heating	kW	2.86 (0.79~6.30)	3.81 (0.98~6.50)
Rated absorbed power (T=+7°C)		kW	0.65 (0.14~2.10)	1.026 (0.17~2.13)
Rated energy performance coefficient		COP[3]	4.42	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		kWh/a	792	852
Theoretical load (Pdesignh)		kW	2.2	2.8
Operating limits (external temperature)	Cooling	°C	-15~43	-15~43
	Heating	°C	-30~30	-30~30
Electrical data				
Power	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz	
Power cable		Type	3 x 2.5 mm[2]	
Absorbed current (rated)	Cooling	A	0.5~7.0	0.5~7.0
	Heating	A	1.0~9.2	1.2~9.4
Maximum current		A	10	10
Maximum absorbed power		kW	2.35	2.35
Connection wires between I.U. and O.U.		no.	5	5
Refrigerant circuit				
Refrigerant (GWP)[4]			R32 (675)	R32 (675)
Quantity refrigerant pre-load		Kg	0.87	0.87
Tons of CO2 equivalent		t	0.587	0.587
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	802x189x297	802x189x297
	Net weight	Kg	8.5	8.5
Sound pressure level (I.U.)	Hi/Mi/Lo/ULo	dB(A)	42/35/25/21.5	42/35/25/22
Sound power level (I.U.)	Hi	dB(A)	56	56
Handled air volume	Hi/Mi/Lo	m^3/h	611/479/360	611/479/360
Motor power (Output)		W	50	50
Specifications of outdoor units				
Dimensions	LxDxH	mm	800x333x554	800x333x554
	Net weight	Kg	34.7	34.7
Sound pressure level (O.U.)		dB(A)	55.5	55.5
Sound power level (O.U.)		dB(A)	64	65
Handled air (Max)		m^3/h	2000	2000
Motor power (Output)		no. x W	40	40
Optional parts				
Wired remote control			NO	
Centralised control			NO	
Wi-Fi module			KK-WIFI KIT	

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.

ACTIVE LINE DC INVERTER
Comfort, well-being and air quality

NEW

Sleep mode

It allows lowering energy consumption at night. In cooling mode, the system increases the ambient temperature within 2 hours, by 2° C (in heating mode the system lowers the temperature by 2°C). At the end of the 2 hours the fan of the indoor unit works at low speed. The system keeps the room temperature constant for the next 5 hours.

Comfort care

ACTIVE air conditioners are equipped with a device that automatically regulates the temperature and moisture in the room.

Silence mode

This function allows the operating speed of the compressor of the outdoor unit and the fan of the indoor unit to be reduced to a minimum, so as to reduce noise and energy consumption to a minimum.

Refrigerant leak detection

Active only in cooling mode, it allows to identify compressor malfunctions following the refrigerant leak.

Cold currents prevention

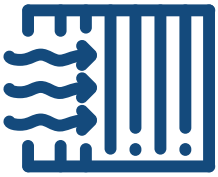
Through this function in heating mode, it is possible to avoid the introduction of cold air into the room following the defrost cycles.

Anti-freeze function 8° C

In the event of prolonged absence, a minimum temperature level can be guaranteed inside the rooms. By activating the anti-freeze function, when a temperature lower than 8° C is detected in the room, the system starts until this temperature is reached.

24H timer

This function allows users to select delayed air conditioner on and/or off within 24 hours, either via remote (standard) or via Wi-Fi (optional).



High density filter

ACTIVE is equipped with high-density filters that ensure the removal of pollen and dust up to 80% and prolong the effect without impurities, to always have clean room air.

RESIDENTIAL AND COMMERCIAL R32

ACTIVE LINE DC INVERTER

NEW

Wall HKEU 263-353-533-713 ZAL

Wi-Fi (optional)

Infrared remote control

- Cold catalyst filter
- Self-cleaning function
- Self-diagnosis function
- High density filter

Main features

Wall model available with 4 different power levels: 2.64~7.03 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+.

SEER/SCOP values 7.1/4.0 (5.28 kW).

Operating range in cooling and heating: -15~50° C; -25~30° C.

Extremely quiet: 21 dB (A) (2.64 kW); 22 dB (A) (3.52 kW).

Compact size of I.U. and O.U.

Installation flexibility: up to 50 m splitting length and 25 m height difference between O.U. and I.U. (7.03 kW).

Indoor unit model			HKEU 263 ZAL	HKEU 353 ZAL	HKEU 533 ZAL	HKEU 713 ZAL
Outdoor unit model			HCNI 263 ZA	HCNI 353 ZA	HCNI 533 ZA	HCNI 713 ZA
Type			DC-Inverter heat pump			
Control			Remote control			
Rated capacity (T=+35°C)		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	0.71 (0.10~1.24)	1.24 (0.13~1.58)	1.54 (0.14~2.36)	2.35 (0.16~2.96)
Rated energy efficiency coefficient		EER[3]	3.72	2.84	3.43	2.99
Seasonal energy efficiency class	Cooling	626/2011[1]	A++	A++	A++	A++
Seasonal energy efficiency index		SEER[2]	6.2	6.1	7.1	6.1
Annual energy consumption		kWh/a	147	201	256	412
Theoretical load (Pdesignc)		kW	2.6	3.5	5.2	7.0
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	0.74 (0.12~1.20)	0.96 (0.10~1.58)	1.48 (0.20~2.41)	2.04 (0.26~3.14)
Rated energy performance coefficient		COP[3]	3.96	3.97	3.76	3.59
Energy efficiency class (intermediate climate season)	Heating	626/2011[1]	A+	A+	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP[2]	4.0	4.0	4.0	4.0
Annual energy consumption		kWh/a	735	805	1435	1697
Theoretical load (Pdesignh)		kW	2.1	2.3	4.1	4.8
Operating limits (external temperature)	Cooling	°C	-15~50			
	Heating	°C	-25~30			
Electrical data						
Power	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz			
Power cable		Type	3 x 2.5 mm²		3 x 4 mm²	
Absorbed current (rated)	Cooling	A	0.4~5.4	0.5~6.9	0.6~10.3	0.7~13.3
	Heating	A	0.5~5.2	0.4~6.9	0.9 ~ 10.5)	1.1~13.3
Maximum current		A	10	10	13.5	17.5
Maximum absorbed power		kW	2.15	2.15	2.95	3.85
Connection wires between I.U. and O.U.		no.	5	5	5	5
Refrigerant circuit						
Refrigerant (GWP)[4]			R32 (675)	R32 (675)	R32 (675)	R32 (675)
Quantity refrigerant pre-load		Kg	0.5	0.5	1.0	1.6
Tons of CO2 equivalent		t	0.338	0.338	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	7.5	7.5	10	12.3
Sound pressure level (I.U.)	Hi/Mi/Lo/ULo	dB(A)	40/30/26/21	40/34/26/22	44/37/30/25	44.5/42/34.5/28
Sound power level (I.U.)	Hi	dB(A)	53	53	55	59
Handled air volume	Hi/Mi/Lo	m³/h	520/460/360	600/500/360	840/680/540	980/817/662
Motor power (Output)		W	40	40	36	58
Specifications of outdoor units						
Dimensions	LxDxH	mm	700x275x550	700x275x550	800x333x554	845x363x702
	Net weight	Kg	22.7	22.7	34	51.5
Sound pressure level (O.U.)		dB(A)	55.5	56	56	59.5
Sound power level (O.U.)		dB(A)	61	65	61	67
Handled air (Max)		m³/h	1700	1700	2500	3000
Motor power (Output)		no. x W	66	66	63	115
Optional parts						
Wired remote control			NO			
Centralised control			NO			
Wi-Fi module			KK-WIFI KIT			

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.

RESIDENTIAL AND COMMERCIAL R32

CONSOLE

HFIU 350 ZAL

NEW

4 air distribution inlets for increased system energy efficiency

Infrared remote control

Main features

1 power level: 3.52 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+.

SEER/SCOP values up to 7.7/4.3.

Operating range in cooling and heating: -15~50° C; -15~24° C.

Compact design, depth of only 210 mm.

Double air distribution mode.

Anti-formaldehyde filter supplied.

Installation flexibility: up to 25 m splitting length.

Possibility of access to tax deductions and to the thermal account.

Indoor unit model			**HFIU 350 ZAL**
Outdoor unit model			**HCKI 350 ZA**
Type			**FULL DC-Inverter heat pump**
Control			Remote control
Rated capacity (T=+35°C)	Cooling	kW	3.52 (0.77~3.81)
Rated absorbed power (T=+35°C)	Cooling	kW	0.92 (0.17~1.84)
Rated energy efficiency coefficient	Cooling	EER[3]	3.83
Seasonal energy efficiency class	Cooling	626/2011[1]	A++
Seasonal energy efficiency index	Cooling	SEER[2]	7.7
Annual energy consumption	Cooling	kWh/a	159
Theoretical load (Pdesignc)	Cooling	kW	3.5
Rated capacity (T=+7°C)	Heating	kW	3.81 (0.46~4.34)
Rated absorbed power (T=+7°C)	Heating	kW	1.02 (0.15~1.47)
Rated energy performance coefficient	Heating	COP[3]	3.74
Energy efficiency class (intermediate climate season)	Heating	626/2011[1]	A+
Seasonal energy efficiency index (intermediate climate season)	Heating	SCOP[2]	4.3
Annual energy consumption	Heating	kWh/a	1042
Theoretical load (Pdesignh)	Heating	kW	3.2
Operating limits (external temperature)	Cooling	°C	-15~50
	Heating	°C	-15~24
Electrical data			
Power	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ
Power cable		Type	3 x 2.5 mm^2
Absorbed current (rated)	Cooling	A	4.1 (1.4~8.1)
	Heating	A	4.5 (1.2~6.5)
Maximum current		A	10
Maximum absorbed power		kW	2.35
Connection wires between I.U. and O.U.		no.	4
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	700xx210x600
	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
Handled 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
Handled air (Max)		m^3/h	2000
Motor power (Output)		W	40
Optional parts			
Wired remote control			YES
Manual centralized control	Requires NIM-GRH interface		YES
Wi-Fi centralized control			XRV Mobile BMS

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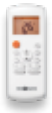
RESIDENTIAL AND COMMERCIAL R32

COMPACT CASSETTE 60x60 NEW

HTFU 350-530 ZAL

Infrared remote control



Main features

2 power levels: 3.52~5.28 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A++ (3.52 kW); A++/A+ (5.28 kW).

SEER/SCOP values 7.8/4.6 (3.52 kW).

Operating range in cooling and heating: -15~50° C; -15~24° C.

Compact dimensions: only 260 mm in height.

TFP 200 ZA panel with 360° air diffusion.

Electrical box inside the unit body.

Condensate drain pump with possibility of raising the discharge up to 750 mm from the lower part of the unit.

Possibility of access to tax deductions and to the thermal account.

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			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)		kW	3.5	5.3
Rated capacity (T=+7°C)	Heating	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 (intermediate climate season)		626/2011[1]	A++	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP[2]	4.6	4.0
Annual energy consumption		kWh/a	959	1470
Theoretical load (Pdesignh)		kW	3.1	4.2
Operating limits (external temperature)	Cooling	°C	-15~50	-15~50
	Heating	°C	-15~24	-15~24
Electrical data				
Power	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ	1-220~240V-50HZ
Power cable		Type	3 x 2.5 mm²	3 x 4.0 mm²
Absorbed current (rated)	Cooling	A	3.8 (1.6~7.1)	7.2 (3.2~8.2)
	Heating	A	5.0 (1.4~7.9)	6.4 (3.1~8.5)
Maximum current		A	10	13.5
Maximum absorbed power		kW	2.35	2.95
Connection wires between I.U. and O.U.		no.	5	4
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
Handled air volume	Hi/Mi/Lo	m³/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
Handled air (Max)		m³/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			XRV Mobile BMS	

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SLIM CASSETTE 84x84

HTBI 710-1080-1400-1600 ZA

NEW

Infrared remote control

Main features

6 power sizes: single phase 7.03 ~ 11.40 kW; three-phase 10.55 ~ 15.53 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+ (single-phase 7.03 kW; three-phase 10.55 ~ 15.53 kW).

Operating range in cooling and heating: -15~50° C; -15~24° C.

Pre-set for external air inlet.

Electrical box inside the unit body.

Condensate drain pump with possibility of raising the discharge up to 750 mm from the lower part of the unit.

Installation flexibility: up to 65 m splitting length and 30 m height difference between O.U. and I.U. (10.55 ~ 15.53 kW).

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			Remote control					
Rated capacity (T=+35°C)		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	Cooling	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)		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 (intermediate climate season)	Heating	626/2011[1]	A+	A	A	A+	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP[2]	4.0	3.8	3.9	4.0	4.0	4.0
Annual energy consumption		kWh/a	1890	2653	3303	2835	3920	4165
Theoretical load (Pdesignh)		kW	5.4	7.2	9.2	8.1	11.2	11.9
Operating limits (external temperature)	Cooling	°C	-15~50					
	Heating	°C	-15~24					
Electrical data								
Power	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ			3-380~415V-50HZ		
Power cable		Type	3 x 4 mm²	3 x 4 mm²	3 x 6 mm²	5 x 2.5 mm²	5 x 2.5 mm²	5 x 4 mm²
Absorbed current (rated)	Cooling	A	9.5 (2.1-12.4)	12.9 (3.9~18.2)	16.5 (5.3~20.8)	6.6 (3.9~8.2)	8.3 (1.8~9.3)	9.8 (1.8~11.6)
	Heating	A	8.9 (2.2-12.5)	10.7 (3.2~18.3)	16.4 (4.5~19.9)	5.0 (3.2~8.3)	8.2 (1.6~8.9)	9.9 (1.6~11.2)
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
Connection wires between I.U. and O.U.		no.	5 (2 of which shielded)					
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	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
Handled 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
Handled 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			XRV Mobile BMS					

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RESIDENTIAL AND COMMERCIAL R32

DUCTED WITH MEDIUM HEAD

NEW

HUCU 350-530 ZAL

Infrared remote control

Main features

2 available power levels: 3.51~5.28 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+.

Operating range in cooling and heating: -15~50° C; -15~24° C.

Compact dimensions: only 200 mm in height (3.51 kW).

Automatic adjustment of the head of the fan at constant flow rate.

Flexi air inlet, from the bottom or from the back.

Condensate drain pump with possibility of raising the discharge up to 750 mm from the lower part of the unit.

Possibility of access to tax deductions and to the thermal account.

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			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 (intermediate climate season)		626/2011[1]	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP[2]	4.0	4.0
Annual energy consumption		kWh/a	1120	1512
Theoretical load (Pdesignh)		kW	3.2	4.3
Operating limits (external temperature)	Cooling	°C	-15~50	
	Heating	°C	-15~24	
Electrical data				
Power	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ	
Power cable		Type	3 x 2.5 mm²	3 x 4 mm²
Absorbed current (rated)	Cooling	A	4.2 (1.7~7.2)	7.2 (3.2~8.3)
	Heating	A	5.0 (1.7~9.0)	7.0 (3.3~7.7)
Maximum current		A	10	13.5
Maximum absorbed power		kW	2.35	2.95
Connection wires between I.U. and O.U.		no.	5	4
Refrigerant circuit				
Refrigerant (GWP)[4]			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	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
Handled air volume	Hi/Mi/Lo	m³/h	600/480/300	880/650/350
Fan pressure head	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
Handled 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			XRV Mobile BMS	

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DUCTED WITH MEDIUM HEAD

HUCI 710-1080-1400-1600 ZA

NEW

Infrared remote control

Main features

6 power sizes: single phase 7.03 ~ 12.31 kW; three-phase 10.55 ~ 15.24 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+.

Operating range in cooling and heating: -15~50° C; -15~24° C.

160 Pa maximum fan static pressure.

Automatic adjustment of the head of the fan at constant flow rate.

Flexi air inlet, from the bottom or from the back.

Condensate drain pump with possibility of raising the discharge up to 750 mm from the lower part of the unit.

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			Remote control					
Rated capacity (T=+35°C)		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	Cooling	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)		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 (intermediate climate season)	Heating	626/2011[1]	A+	A+	A+	A+	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP[2]	4.0	4.0	4.0	4.0	4.0	4.0
Annual energy consumption		kWh/a	1911	2800	3360	2968	4263	4375
Theoretical load (Pdesignh)		kW	5.4	8.0	9.6	8.4	12.1	12.5
Operating limits (external temperature)	Cooling	°C	-15~50					
	Heating	°C	-15~24					
Electrical data								
Power	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ			3-380~415V-50HZ		
Power cable		Type	3 x 4 mm²	3 x 4 mm²	3 x 6 mm²	5 x 2.5 mm²	5 x 2.5 mm²	5 x 4 mm²
Absorbed current (rated)	Cooling	A	9.5 (2.1~12.4)	11.8 (2.0~15.5)	16.0 (1.5~19.1)	6.5 (1.4~8.2)	8.3 (1.8~9.4)	8.9 (2.0~11.6)
	Heating	A	8.9 (2.2~12.5)	10.6 (3.0~13.5)	16.2 (1.9~18.8)	4.7 (1.3~7.4)	6.8 (1.5~9.2)	8.8 (1.6~10.5)
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
Connection wires between I.U. and O.U.		no.	5 (2 of which shielded)					
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
Handled air volume	Hi/Mi/Lo	m³/h	1248/1054/839	1400/1150/750	2400/2040/1680	1400/1150/750	2400/2040/1680	2600/2210/1820
Fan pressure head	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
Handled 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
Optional parts								
Wired remote control			YES					
Manual centralized control			YES					
Wi-Fi centralized control			XRV Mobile BMS					

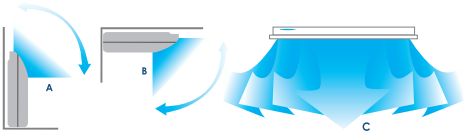
1 EU Delegated Regulation No.626/2011 on the new labelling indicating the energy consumption of air conditioners. 2 EU Regulation No.206/2012 - - Value measured according to harmonised standard EN14825. 3 Value measured according to harmonised standard EN14511. 4 Refrigerant leakage contributes to climate 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.

FLOOR/CEILING

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

NEW

Infrared remote control



Installation flexibility: possibility of installation even in the corners of the ceiling, in the event that it is not possible to install the unit in the centre of the room due to the presence of any obstacles.

Main features

7 power sizes: single phase 5.28 ~ 11.7 kW; three-phase 10.55 ~ 15.83 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+ (single-phase 5.28 ~ 7.03; three-phase 10.55 ~ 15.83 kW).

Operating range in cooling and heating: -15~50° C; -15~24° C.

Terminal for remote on-off control and output for alarm signal in case of malfunction.

Turbo function, for heating and cooling the room quickly.

Indoor unit model			HSFU 530 ZAL	HSFI 710 ZA1	HSFI 1080 ZA1	HSFI 1400 ZA1	HSFI 1080 ZA1	HSFI 1400 ZA1	HSFI 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			Remote control						
Rated capacity (T=+35°C)		kW	5.28 (2.71~5.57)	7.03 (3.22~8.29)	8.79 (4.04~10.02)	11.7 (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	Cooling	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)		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 (intermediate climate season)	Heating	626/2011[1]	A+	A+	A	A	A+	A+	A+
Seasonal energy efficiency index (intermediate climate 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)		kW	4.1	5.4	7.3	9.3	9.0	11.5	11.9
Operating limits (external 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	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ				3-380~415V-50HZ		
Power cable		Type	3 x 4 mm²	3 x 4 mm²	3 x 4 mm²	3 x 6 mm²	5 x 2.5 mm²	5 x 2.5 mm²	5 x 4 mm²
Absorbed current (rated)	Cooling	A	7.2 (3.2~8.2)	10.0 (2.1~13.1)	11.8 (3.9~17.4)	16.3 (5.6~20.5)	5.8 (1.2~8.2)	9.1 (1.8~9.8)	10.5 (1.9~11.3)
	Heating	A	6.6 (2.7~7.3)	9.5 (2.2~12.7)	10.6 (3.2~17.4)	16.7 (5.6~18.3)	4.8 (1.2~8.3)	8.1 (1.6~10.3)	9.9 (1.6~11.5)
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
Connection wires between I.U. and O.U.		no.	4	5 (2 of which shielded)					
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	28	26.8	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
Handled 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
Handled 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			XRV Mobile BMS						

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.

TWIN COMBINATIONS

NEW

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				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)			kW	14.0	15.7
Rated capacity (T=+7°C)	Heating		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 (intermediate climate season)			626/2011[1]	A+	A+
Seasonal energy efficiency index (intermediate climate season)			SCOP[2]	4.0	4.0
Annual energy consumption			kWh/a	3920	4165
Theoretical load (Pdesignh)			kW	11.2	11.9
Operating limits (external temperature)	Cooling		°C	-15~50	-15~50
	Heating		°C	-15~24	-15~24
Electrical data					
Power	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 mm²	5 x 4 mm²
Absorbed current (rated)	Cooling		A	8.3 (1.8~9.3)	9.8 (1.8~11.0)
	Heating		A	8.2 (1.6~8.8)	9.9 (1.6~10.6)
Maximum current			A	11.2	14.0
Maximum absorbed power			kW	6.20	7.50
Connection wires between each I.U. and O.U.			no.	5 (2 of which shielded)	5 (2 of which shielded)
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				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)			kW	14.0	15.4
Rated capacity (T=+7°C)	Heating		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 (intermediate climate season)			626/2011[1]	A+	A+
Seasonal energy efficiency index (intermediate climate season)			SCOP[2]	4.0	4.0
Annual energy consumption			kWh/a	4200	4375
Theoretical load (Pdesignh)			kW	12.0	12.5
Operating limits (external temperature)	Cooling		°C	-15~50	-15~50
	Heating		°C	-15~24	-15~24
Electrical data					
Power	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 mm²	5 x 4 mm²
Absorbed current (rated)	Cooling		A	8.3 (1.8~9.4)	8.9 (2.0~11.0)
	Heating		A	6.8 (1.7~10.2)	8.8 (1.6~9.9)
Maximum current			A	11.2	14.0
Maximum absorbed power			kW	6.20	7.50
Connection wires between each I.U. and O.U.			no.	5 (2 of which shielded)	5 (2 of which shielded)
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") - Φ15.88(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			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)		kW	14.2	15.9
Rated capacity (T=+7°C)	Heating	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 (intermediate climate season)		626/2011[1]	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP[2]	4.0	4.0
Annual energy consumption		kWh/a	3885	4165
Theoretical load (Pdesignh)		kW	11.1	11.9
Operating limits (external temperature)	Cooling	°C	-15~50	-15~50
	Heating	°C	-15~24	-15~24
Electrical data				
Power	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
Absorbed current (rated)	Cooling	A	9.1 (1.8~9.3)	10.5 (1.9~10.3)
	Heating	A	8.1 (1.6~10.3)	9.9 (1.6~10.8)
Maximum current		A	11.2	14.0
Maximum absorbed power		kW	6.20	7.50
Connection wires between each I.U. and O.U.		no.	5 (2 of which shielded)	5 (2 of which shielded)
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 head duct and the floor/ceiling combined with outdoor units of 14.00 and 16.00 kW.

R32 MULTISPLIT

Outdoor unit - Up to 4 connectable indoor units

NEW

HCKU 470 Z2
HCKU 530 Z2

HCKU 600 Z3
HCKU 760 Z3

HCKU 810 Z4

Main features

Energy efficiency class in cooling/heating mode A++/A+ (5.28~7.91 kW).

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

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

Model			HCKU 470 Z2	HCKU 530 Z2	HCKU 600 Z3	HCKU 760 Z3	HCKU 810 Z4
Type			Outdoor DC-Inverter heat pump unit				
Connectable indoor units (min - max)		no.	1 - 2	1 - 2	2 - 3	2 - 3	2 - 4
Rated capacity (T=+35°C)	Cooling	kW	4.10 (1.82~4.81)	5.28 (2.05~6.86)	6.15 (1.94~6.86)	7.91 (2.89~8.50)	8.21 (2.05~9.85)
Rated absorbed power (T=+35°C)	Cooling	kW	1.27 (0.17~1.71)	1.63 (0.69~2.00)	1.95 (0.18~2.24)	2.45 (0.24~3.22)	2.54 (0.89~3.18)
Rated energy efficiency coefficient	Cooling	EER[3]	3.23	3.24	3.16	3.23	3.23
Seasonal energy efficiency class	Cooling	626/2011[1]	A+	A++	A++	A++	A++
Seasonal energy efficiency index	Cooling	SEER[2]	5.6	6.1	6.1	6.1	6.1
Annual energy consumption	Cooling	kWh/a	256	304	350	453	470
Theoretical load (Pdesignc)	Cooling	kW	4.1	5.3	6.1	7.9	8.2
Rated capacity (T=+7°C)	Heating	kW	4.40 (1.53~5.10)	5.57 (2.34~7.24)	6.60 (1.73~7.25)	8.21 (1.99~8.50)	8.79 (2.34~10.55)
Rated absorbed power (T=+7°C)	Heating	kW	1.185 (0.27~1.71)	1.50 (0.60~1.67)	1.78 (0.33~1.92)	2.20 (0.32~2.84)	2.20 (0.77~2.75)
Rated energy performance coefficient	Heating	COP[3]	3.71	3.71	3.71	3.73	4.00
Energy efficiency class (intermediate climate season)	Heating	626/2011[1]	A	A+	A+	A+	A
Seasonal energy efficiency index (intermediate climate season)	Heating	SCOP[2]	3.8	4.0	4.0	4.0	3.8
Annual energy consumption	Heating	kWh/a	1363	1537	1960	1993	2395
Theoretical load (Pdesignh)	Heating	kW	3.7	4.3	5.6	5.7	6.5
Operating limits (external temperature)	Cooling	°C	-15~50	-15~50	-15~50	-15~50	-15~50
	Heating	°C	-15~24	-15~24	-15~24	-15~24	-15~24
Electrical data							
Power		Ph-V-Hz	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
Rated absorbed current	Cooling	A	5.5 (0.7~9.3)	7.1 (3.1~9.2)	9.0 (1.1~9.9)	13.7 (2.2~14.3)	11.3 (3.9~14.1)
	Heating	A	5.2 (1.2~9.4)	6.6 (2.6~7.9)	8.5 (1.9~8.5)	12.5 (2.6~12.6)	9.8 (3.4~12.2)
Maximum current		A	11.5	13	15.5	17.5	19
Maximum absorbed power		kW	2.65	2.85	3.30	3.60	4.15
Connection wires between each I.U. and O.U.		no.	4	4	4	4	4
Refrigerant circuit							
Refrigerant (GWP)[4]			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
Tons of CO2 equivalent		t	0.743	0.844	0.945	1.161	1.418
Diameter of refrigerant piping on liquid/gas		mm (inches)	2 x ø6.35(1/4") - 2 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")
Total splitting length		m	40	40	60	60	80
Max length of a single refrigeration line		m	25	25	30	30	35
Max I.U./O.U. height difference		m	15	15	15	15	15
Max height difference between I.U.		m	10	10	10	10	10
Splitting length without additional load		m	15	15	22.5	22.5	30
Additional load		g/m	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
Sound pressure level		dB(A)	57	56	57.5	54	61.5
Sound power level		dB(A)	64	65	65	67	67
Handled air (Max)		m^3/h	2200	2200	3000	2700	3800
Motor power (Input)		W	34	34	115	115	150

Energy efficiency values refer to the following combinations: HCKU470Z2 + 2xHKEU203ZL -- HCKU530Z2 + 2xHKEU264ZAL -- HCKU600Z3 + 3xHKEU203ZL -- HCKU760Z3 + 3xHKEU264ZAL -- HCKU 810 Z4 + 4xHKEU203ZL

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.

TOP CLASS DC INVERTER MULTISPLIT INTERNAL UNITS

NEW

Wall HKEU 264-354 ZAL

Wi-Fi (optional)

Infrared remote control

Model			HKEU 264 ZAL	HKEU 354 ZAL
Type			Indoor wall unit	
Control			Remote control	
Rated heating	Cooling	kW	2.6	3.5
	Heating	kW	2.9	3.8
Electrical data				
Power		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	802x189x297	802x189x297
	Net weight	Kg	8.5	8.5
Sound pressure level	Hi/Mi/Lo/ULo	dB(A)	42/35/25/21.5	42/35/25/22
Sound power level	Hi	dB(A)	56	56
Treated air (High / Med. / Low)		m^3/h	611/479/360	611/479/360
Motor power (Output)		W	50	50
Optional parts				
Wi-Fi module			KK-WIFI KIT	
Wired remote control			NO	
Centralised control			NO	

ACTIVE LINE DC INVERTER MULTISPLIT INTERNAL UNITS

NEW

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

Wi-Fi (optional)

Infrared remote control

Model			HKEU 203 ZL	HKEU 263 ZAL	HKEU 353 ZAL	HKEU 533 ZAL
Type			Indoor wall unit			
Control			Remote control			
Rated heating	Cooling	kW	2.1	2.6	3.5	5.3
	Heating	kW	2.3	2.9	3.8	5.6
Electrical data						
Power		Ph-V-Hz	-	-	-	-
Connection wires between I.U. and O.U.		no.	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") -- Φ15.88(3/8")	ø6.35(1/4") - ø12.74(1/2")
Product specifications						
Dimensions	LxDxH	mm	805x194x285	805x194x285	805x194x285	957x213x302
	Net weight	Kg	7.5	7.5	7.5	10
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
Sound power level	Hi	dB(A)	54	53	53	55
Treated air (High / Med. / Low)		m^3/h	520/460/340	520/460/340	600/500/360	840/680/540
Motor power (Output)		W	40	40	40	36
Optional parts						
Wi-Fi module			KK-WIFI KIT			
Wired remote control			NO			
Centralised control			NO			

TECHNICAL APPENDIX

HOKKAIDO

R32 COMBINATIONS

HCKU 470 Z2 Cooling

Combinations	Unit indoor	Combination		Cooling capacity (kW)		Total Cooling performance (kW)	Power absorption (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy Class	Tax deductions 65%	Thermal Account 2.0
		Unit A	Unit B	Unit A	Unit B	std.	std.	Std. power						
1 units	53	53	—	4.10	—	4.10	1.27	3.23	—	—	—	—	YES	-
2 units	**20+20**	**20**	**20**	**2.05**	**2.05**	**4.10**	**1.27**	**3.23**	**4.1**	**5.6**	**256**	**A+**	**YES**	**-**
	20+26	20	26	1.79	2.31	4.10	1.27	3.23	4.1	5.6	256	A+	YES	-
	20+35	20	35	1.51	2.59	4.10	1.27	3.23	4.1	5.6	256	A+	YES	-
	26+26	26	26	2.05	2.05	4.10	1.27	3.23	4.1	5.6	256	A+	YES	-
	26+35	26	35	1.76	2.34	4.10	1.27	3.23	4.1	5.6	256	A+	YES	-

HCKU 470 Z2 Heating

Combinations	Unit indoor	Combination		Rated heating capacity (kW)		Total heating capacity (kW)	Power absorption (kW)	COP (W/W)	Pdesignh	SCOP	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal Account 2.0
		Unit A	Unit B	Unit A	Unit B	std.	std.	Std. power						
1 units	53	53	—	4.40	—	4.40	1.19	3.71	—	—	—	—	YES	YES
2 units	**20+20**	**20**	**20**	**2.20**	**2.20**	**4.40**	**1.19**	**3.71**	**3.7**	**3.8**	**1363**	**A**	**YES**	**YES**
	20+26	20	26	1.93	2.48	4.40	1.19	3.71	3.7	3.8	1363	A	YES	YES
	20+35	20	35	1.62	2.78	4.40	1.19	3.71	3.7	3.8	1363	A	YES	YES
	26+26	26	26	2.20	2.20	4.40	1.19	3.71	3.7	3.8	1363	A	YES	YES
	26+35	26	35	1.89	2.51	4.40	1.19	3.71	3.7	3.8	1363	A	YES	YES

HCKU 530 Z2 Cooling

Combinations	Unit indoor	Combination		Rated cooling capacity (kW)		Total cooling capacity (kW)	Power absorption (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal Account 2.0
		Unit A	Unit B	Unit A	Unit B	std.	std.	Std. power						
1 units	53	53	—	5.00	—	5.00	1.55	3.23	—	—	—	—	YES	-
2 units	20+35	20	35	1.92	3.28	5.20	1.61	3.23	5.3	6.0	309	A+	YES	-
	20+53	20	53	1.50	3.88	5.35	1.65	3.25	5.3	6.0	309	A+	YES	-
	26+26	**26**	**26**	**2.65**	**2.65**	**5.30**	**1.63**	**3.24**	**5.3**	**6.0**	**309**	**A+**	**YES**	**-**
	26+35	26	35	2.27	3.03	5.30	1.63	3.24	5.3	6.0	309	A+	YES	-
	26+53	26	53	1.78	3.57	5.35	1.65	3.25	5.3	6.0	309	A+	YES	-
	35+35	35	35	2.65	2.65	5.30	1.63	3.24	5.3	6.0	309	A+	YES	-

HCKU 530 Z2 Heating

Combinations	Unit indoor	Combination		Rated heating capacity (kW)		Total heating capacity (kW)	Power absorption (kW)	COP (W/W)	Pdesignh	SCOP	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal Account 2.0
		Unit A	Unit B	Unit A	Unit B	std.	std.	Std. power						
1 units	53	53	—	5.20	—	5.20	1.35	3.85	—	—	—	—	YES	YES
2 units	20+35	20	35	2.03	3.47	5.50	1.37	4.01	4.8	3.8	1768	A	YES	YES
	20+53	20	53	1.60	4.14	5.70	1.42	4.01	4.8	3.8	1768	A	YES	YES
	26+26	**26**	**26**	**2.79**	**2.79**	**5.57**	**1.39**	**4.01**	**4.8**	**3.8**	**1768**	**A**	**YES**	**YES**
	26+35	26	35	2.40	3.20	5.60	1.40	4.01	4.8	3.8	1768	A	YES	YES
	26+53	26	53	1.93	3.87	5.80	1.45	4.01	4.8	3.8	1768	A	YES	YES
	35+35	35	35	2.80	2.80	5.60	1.40	4.01	4.8	3.8	1768	A	YES	YES

HCKU 600 Z3 Cooling

Combinations	Unit indoor	Combination			Rated cooling capacity (kW)			Total cooling capacity (kW)	Absorbed power (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal Account 2.0
		Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	std.	std.	Std. power						
2 units	20+35	20	35	—	1.95	3.35	—	5.30	1.64	3.23	5.3	5.6	331	A+	YES	-
	20+53	20	53		1.76	4.54	—	6.30	1.95	3.23	6.1	5.6	381	A+	YES	-
	26+26	26	26	—	2.65	2.65	—	5.30	1.64	3.23	5.3	5.6	331	A+	YES	-
	26+35	26	35	—	2.57	3.43	—	6.00	1.86	3.23	6.0	5.6	375	A+	YES	-
	26+53	26	53	—	2.10	4.20	—	6.30	1.94	3.24	6.1	5.6	381	A+	YES	-
	35+35	35	35	—	3.10	3.10	—	6.20	1.92	3.23	6.1	5.6	381	A+	YES	-
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++**	**YES**	**-**
	20+20+26	20	20	26	1.92	1.92	2.47	6.30	1.95	3.23	6.1	6.1	350	A++	YES	-
	20+20+35	20	20	35	1.70	1.70	2.91	6.30	1.94	3.24	6.1	6.1	350	A++	YES	-
	20+26+26	20	26	26	1.76	2.27	2.27	6.30	1.94	3.24	6.1	6.1	350	A++	YES	-
	20+26+35	20	26	35	1.58	2.03	2.70	6.30	1.94	3.24	6.1	6.1	350	A++	YES	-
	26+26+26	26	26	26	2.10	2.10	2.10	6.30	1.94	3.24	6.1	6.1	350	A++	YES	-
	26+26+35	26	26	35	1.89	1.89	2.52	6.30	1.94	3.24	6.1	6.1	350	A++	YES	-

R32 COMBINATIONS

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	Tax deductions 65%	Thermal Account 2.0
		Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	std.	std.	Std. power						
2 units	20+35	20	35	—	2.17	3.73	—	5.90	1.59	3.71	4.8	3.8	1768	A	YES	YES
	20+53	20	53		1.82	4.68	—	6.50	1.75	3.71	5.1	3.8	1886	A+	YES	YES
	26+26	26	26	—	2.95	2.95	—	5.90	1.59	3.71	4.8	3.8	1768	A	YES	YES
	26+35	26	35	—	2.70	3.60	—	6.30	1.70	3.71	5.1	3.8	1886	A+	YES	YES
	26+53	26	53	—	2.20	4.40	—	6.60	1.78	3.71	5.1	3.8	1886	A+	YES	YES
	35+35	35	35	—	3.15	3.15	—	6.30	1.70	3.71	5.1	3.8	1886	A+	YES	YES
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+**	**YES**	**YES**
	20+20+26	20	20	26	2.02	2.02	2.60	6.65	1.79	3.72	5.6	4.0	1960	A+	YES	YES
	20+20+35	20	20	35	1.80	1.80	3.09	6.70	1.80	3.72	5.6	4.0	1960	A+	YES	YES
	20+26+26	20	26	26	1.88	2.41	2.41	6.70	1.80	3.72	5.6	4.0	1960	A+	YES	YES
	20+26+35	20	26	35	1.68	2.15	2.87	6.70	1.80	3.72	5.6	4.0	1960	A+	YES	YES
	26+26+26	26	26	26	2.23	2.23	2.23	6.70	1.81	3.71	5.6	4.0	1960	A+	YES	YES
	26+26+35	26	26	35	2.01	2.01	2.68	6.70	1.80	3.72	5.6	4.0	1960	A+	YES	YES

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	Tax deductions 65%	Thermal account 2.0
		Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	std.	std.	Std. power						
2 units	20+35	20	35	—	1.95	3.35	—	5.30	1.64	3.23	5.3	5.6	331	A+	YES	-
	20+53	20	53	—	1.82	4.68	—	6.50	2.01	3.23	6.5	5.6	406	A+	YES	-
	26+26	26	26	—	2.65	2.65	—	5.30	1.64	3.23	5.3	5.6	331	A+	YES	-
	26+35	26	35	—	2.57	3.43	—	6.00	1.86	3.23	6.0	5.6	375	A+	YES	-
	26+53	26	53	—	2.27	4.53	—	6.80	2.09	3.25	6.8	5.6	425	A+	YES	-
	35+35	35	35	—	3.15	3.15	—	6.30	1.94	3.24	6.3	5.6	394	A+	YES	-
	35+53	35	53	—	2.72	4.08	—	6.80	2.09	3.25	6.8	5.6	425	A+	YES	-
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++	YES	-
	20+20+26	20	20	26	2.25	2.25	2.90	7.40	2.29	3.23	7.4	6.1	425	A++	YES	-
	20+20+35	20	20	35	2.13	2.13	3.65	7.90	2.45	3.23	7.9	6.1	453	A++	YES	-
	20+20+53	20	20	53	1.73	1.73	4.44	7.90	2.43	3.25	7.9	6.1	453	A++	YES	-
	20+26+26	20	26	26	2.13	2.74	2.74	7.60	2.35	3.23	7.6	6.1	436	A++	YES	-
	20+26+35	20	26	35	1.98	2.54	3.39	7.90	2.45	3.23	7.9	6.1	453	A++	YES	-
	20+26+53	20	26	53	1.63	2.09	4.18	7.90	2.43	3.25	7.9	6.1	453	A++	YES	-
	20+35+35	20	35	35	1.78	3.06	3.06	7.90	2.43	3.25	7.9	6.1	453	A++	YES	-
	26+26+26	**26**	**26**	**26**	**2.63**	**2.63**	**2.63**	**7.90**	**2.45**	**3.23**	**7.9**	**6.1**	**453**	**A++**	**YES**	**-**
	26+26+35	26	26	35	2.37	2.37	3.16	7.90	2.43	3.25	7.9	6.1	453	A++	YES	-
	26+35+35	26	35	35	2.15	2.87	2.87	7.90	2.43	3.25	7.9	6.1	453	A++	YES	-
	35+35+35	35	35	35	2.63	2.63	2.63	7.90	2.43	3.25	7.9	6.1	453	A++	YES	-

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	Tax deductions 65%	Thermal account 2.0
		Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	std.	std.	Std. power						
2 units	20+35	20	35	—	2.21	3.79	—	6.00	1.57	3.81	5.1	3.8	1879	A	YES	YES
	20+53	20	53	—	1.96	5.04	—	7.00	1.84	3.81	5.1	3.8	1879	A	YES	YES
	26+26	26	26	—	3.00	3.00	—	6.00	1.57	3.81	5.1	3.8	1879	A	YES	YES
	26+35	26	35	—	2.70	3.60	—	6.30	1.65	3.81	5.1	3.8	1879	A	YES	YES
	26+53	26	53	—	2.33	4.67	—	7.00	1.84	3.81	5.1	3.8	1879	A	YES	YES
	35+35	35	35	—	3.25	3.25	—	6.50	1.71	3.81	5.1	3.8	1879	A	YES	YES
	35+53	35	53	—	2.80	4.20	—	7.00	1.84	3.81	5.1	3.8	1879	A	YES	YES
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+	YES	YES
	20+20+26	20	20	26	2.13	2.13	2.74	7.00	1.80	3.88	5.6	4.0	1960	A+	YES	YES
	20+20+35	20	20	35	2.13	2.13	3.65	7.90	2.03	3.90	5.6	4.0	1960	A+	YES	YES
	20+20+53	20	20	53	1.82	1.82	4.67	8.30	2.12	3.91	5.6	4.0	1960	A+	YES	YES
	20+26+26	20	26	26	2.21	2.84	2.84	7.90	2.03	3.90	5.6	4.0	1960	A+	YES	YES
	20+26+35	20	26	35	2.05	2.64	3.51	8.20	2.10	3.91	5.6	4.0	1960	A+	YES	YES
	20+26+53	20	26	53	1.71	2.20	4.39	8.30	2.12	3.92	5.6	4.0	1960	A+	YES	YES
	20+35+35	20	35	35	1.87	3.21	3.21	8.30	2.12	3.92	5.6	4.0	1960	A+	YES	YES
	26+26+26	**26**	**26**	**26**	**2.73**	**2.73**	**2.73**	**8.20**	**2.10**	**3.91**	**5.6**	**4.0**	**1960**	**A+**	**YES**	**YES**
	26+26+35	26	26	35	2.49	2.49	3.32	8.30	2.12	3.91	5.6	4.0	1960	A+	YES	YES
	26+35+35	26	35	35	2.26	3.02	3.02	8.30	2.12	3.92	5.6	4.0	1960	A+	YES	YES
	35+35+35	35	35	35	2.77	2.77	2.77	8.30	2.12	3.92	5.6	4.0	1960	A+	YES	YES

R32 COMBINATIONS

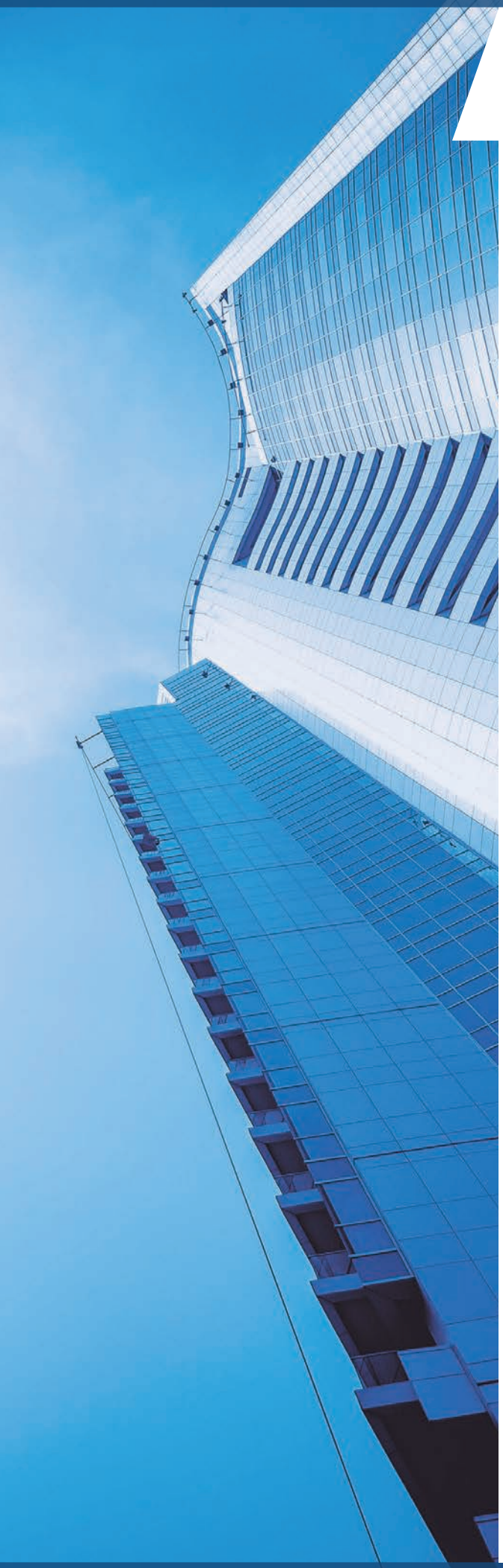
HCKU 810 Z4 Cooling

Combinations	Unit indoor	Combination				Rated cooling capacity (kW)				Total cooling capacity (kW)	Absorbed power (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal account 2.0
		Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	std.	std.	Std. power						
2 units	20+35	20	35	—	—	1.95	3.35	—	—	5.30	1.64	3.23	5.3	5.1	364	A	YES	-
	20+53	20	53	—	—	1.96	5.04	—	—	7.00	2.17	3.23	7.0	5.1	480	A	YES	-
	26+26	26	26	—	—	2.65	2.65	—	—	5.30	1.64	3.23	5.3	5.1	364	A	YES	-
	26+35	26	35	—	—	2.57	3.43	—	—	6.00	1.86	3.23	6.0	5.1	412	A	YES	-
	26+53	26	53	—	—	2.43	4.87	—	—	7.30	2.26	3.23	7.3	5.1	501	A	YES	-
	35+35	35	35	—	—	3.25	3.25	—	—	6.50	2.01	3.23	6.5	5.1	446	A	YES	-
	35+53	35	53	—	—	2.92	4.38	—	—	7.30	2.26	3.23	7.3	5.1	501	A	YES	-
	53+53	53	53	—	—	3.75	3.75	—	—	7.50	2.32	3.23	7.5	5.1	515	A	YES	-
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+	YES	-
	20+20+26	20	20	26	—	1.98	1.98	2.54	—	6.50	2.01	3.23	6.5	5.6	406	A+	YES	-
	20+20+35	20	20	35	—	1.91	1.91	3.28	—	7.10	2.20	3.23	7.1	5.6	444	A+	YES	-
	20+20+53	20	20	53	—	1.71	1.71	4.39	—	7.80	2.41	3.23	7.8	5.6	488	A+	YES	-
	20+26+26	20	26	26	—	1.90	2.45	2.68	—	6.80	2.11	3.23	6.8	5.6	425	A+	YES	-
	20+26+35	20	26	35	—	1.88	2.41	3.21	—	7.50	2.32	3.23	7.5	5.6	469	A+	YES	-
	20+26+53	20	26	53	—	1.61	2.06	4.13	—	7.80	2.41	3.23	7.8	5.6	488	A+	YES	-
	20+35+35	20	35	35	—	1.76	3.02	3.02	—	7.80	2.41	3.23	7.8	5.6	488	A+	YES	-
	20+35+53	20	35	53	—	1.48	2.53	3.79	—	7.80	2.41	3.23	7.8	5.6	488	A+	YES	-
	26+26+26	26	26	26	—	2.37	2.37	2.37	—	7.10	2.20	3.23	7.1	5.6	444	A+	YES	-
	26+26+35	26	26	35	—	2.34	2.34	3.12	—	7.80	2.41	3.23	7.8	5.6	488	A+	YES	-
	26+26+53	26	26	53	—	1.95	1.95	3.90	—	7.80	2.41	3.23	7.8	5.6	488	A+	YES	-
	26+35+35	26	35	35	—	2.13	2.84	2.84	—	7.80	2.41	3.23	7.8	5.6	488	A+	YES	-
	26+35+53	26	35	53	—	1.80	2.40	3.60	—	7.80	2.41	3.23	7.8	5.6	488	A+	YES	-
	35+35+35	35	35	35	—	2.60	2.60	2.60	—	7.80	2.41	3.23	7.8	5.6	488	A+	YES	-
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++**	**YES**	**-**
	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++	YES	-
	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++	YES	-
	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++	YES	-
	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++	YES	-
	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++	YES	-
	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++	YES	-
	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++	YES	-
	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++	YES	-
	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++	YES	-
	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++	YES	-
	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++	YES	-

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	Tax deductions 65%	Thermal account 2.0
		Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	std.	std.	Std. power						
2 units	20+35	20	35	—	—	2.21	3.79	—	—	6.00	1.57	3.81	4.6	3.4	1902	A	YES	YES
	20+53	20	53	—	—	2.18	5.62	—	—	7.80	2.03	3.85	6.0	3.4	2473	A	YES	YES
	26+26	26	26	—	—	3.00	3.00	—	—	6.00	1.57	3.81	4.6	3.4	1902	A	YES	YES
	26+35	26	35	—	—	3.00	4.00	—	—	7.00	1.84	3.81	5.4	3.4	2219	A	YES	YES
	26+53	26	53	—	—	2.63	5.27	—	—	7.90	2.05	3.85	6.1	3.4	2505	A	YES	YES
	35+35	35	35	—	—	3.75	3.75	—	—	7.50	1.97	3.81	5.8	3.4	2378	A	YES	YES
	35+53	35	53	—	—	3.20	4.80	—	—	8.00	2.08	3.85	6.1	3.4	2505	A	YES	YES
	53+53	53	53	—	—	4.00	4.00	—	—	8.00	2.08	3.85	6.1	3.4	2505	A	YES	YES
3 units	20+20+20	20	20	20	—	2.33	2.33	2.33	—	7.00	1.79	3.90	5.4	3.5	2156	A	YES	YES
	20+20+26	20	20	26	—	2.37	2.37	3.05	—	7.80	2.00	3.90	6.0	3.5	2402	A	YES	YES
	20+20+35	20	20	35	—	2.26	2.26	3.88	—	8.40	2.14	3.92	6.1	3.5	2440	A	YES	YES
	20+20+53	20	20	53	—	1.88	1.88	4.84	—	8.60	2.19	3.92	6.2	3.5	2480	A	YES	YES
	20+26+26	20	26	26	—	2.35	3.02	2.68	—	8.40	2.14	3.92	6.1	3.5	2440	A	YES	YES
	20+26+35	20	26	35	—	2.13	2.73	3.64	—	8.50	2.17	3.92	6.2	3.5	2480	A	YES	YES
	20+26+53	20	26	53	—	1.77	2.28	4.55	—	8.60	2.18	3.95	6.2	3.5	2480	A	YES	YES
	20+35+35	20	35	35	—	1.94	3.33	3.33	—	8.60	2.19	3.92	6.2	3.5	2480	A	YES	YES
	20+35+53	20	35	53	—	1.63	2.79	4.18	—	8.60	2.18	3.95	6.2	3.5	2480	A	YES	YES
	26+26+26	26	26	26	—	2.87	2.87	2.87	—	8.60	2.19	3.92	6.2	3.5	2480	A	YES	YES
	26+26+35	26	26	35	—	2.58	2.58	3.44	—	8.60	2.19	3.92	6.2	3.5	2480	A	YES	YES
	26+26+53	26	26	53	—	2.15	2.15	4.30	—	8.60	2.18	3.95	6.2	3.5	2480	A	YES	YES
	26+35+35	26	35	35	—	2.35	3.13	3.13	—	8.60	2.19	3.92	6.2	3.5	2480	A	YES	YES
	26+35+53	26	35	53	—	1.98	2.65	3.97	—	8.60	2.18	3.95	6.2	3.5	2480	A	YES	YES
	35+35+35	35	35	35	—	2.87	2.87	2.87	—	8.60	2.18	3.95	6.2	3.5	2480	A	YES	YES
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**	**YES**	**YES**
	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	YES	YES
	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	YES	YES
	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	YES	YES
	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	YES	YES
	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	YES	YES
	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	YES	YES
	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	YES	YES
	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	YES	YES
	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	YES	YES
	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	YES	YES
	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	YES	YES

RESIDENTIAL AND COMMERCIAL R410A



THE PERFECT SYNTHESIS BETWEEN DESIGN, PERFORMANCE AND RESPECT FOR THE ENVIRONMENT

Hokkaido looks at the future with its line of air conditioners with functional, versatile aesthetics: **V-DESIGN DC INVERTER** models are for anyone who is looking for an innovative and attractive design, while **ACTIVE DC INVERTER** models combine tradition and technology to guarantee maximum comfort.

The range includes other types of indoor units such as **console**, **cassette**, **dutcable** and **floor/ceiling**.

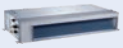
All models are designed with special attention to detail and with the full force of cutting-edge technology that greatly improves product performance.

RESIDENTIAL AND COMMERCIAL R410A

HOKKAIDO

RESIDENTIAL AND COMMERCIAL R410A - LINE UP

MONOSPLIT

kW	2.60	3.50	5.30	7.10	10.80	14.00	16.00
V-DESIGN DC INVERTER							
Wall 	HKEU XAL-(S)-1*	HKEU XAL-(S)-1*	HKEU XAL-(S)-1*				
ACTIVE LINE DC INVERTER							
Wall 	HKEU XAL-1*	HKEU XAL-1*	HKEU XAL-1*	HKEU XAL-1*			
COMMERCIAL							
Console 		HFIU ZAL*					
Compact Cassette NEW 		HTFU ZAL	HTFU ZAL				
Slim Cassette 84x84 NEW 				HTBI ZA	HTBI ZA	HTBI ZA	HTBI ZA
Ducted medium Head Pa NEW 		HUCI ZA	HUCI ZA	HUCI ZA	HUCI ZA	HUCI ZA	HUCI ZA
Floor/ceiling NEW 			HSFU ZAL	HSFI ZA1	HSFI ZA1	HSFI ZA1	HSFI ZA1

* Can also be installed in multisplit version.

MULTISPLIT

kW		4.15	5.20	6.10	8.00	8.20	11.05	12.30
No. connectable indoor units		2	2	3	3	4	4	5
		 HCKU 472 X2	 HCKU 531 X2	 HCKU 601 X3	 HCKU 761 X3	 HCKU 811 X4	 HCKU 1061 X4	 HCKU 1201 X5
	HKEU 262 XAL-(S)-1	●	●	●	●	●	●	●
	HKEU 352 XAL-(S)-1	●	●	●	●	●	●	●
	HKEU 532 XAL-(S)-1	●	●	●	●	●	●	●
	HKEU 263 XAL-1	●	●	●	●	●	●	●
	HKEU 353 XAL-1	●	●	●	●	●	●	●
	HKEU 533 XAL-1	●	●	●	●	●	●	●
	HKEU 713 XAL-1					●	●	●
	HFIU 350 ZAL	●	●	●	●	●	●	●

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

MONOSPLIT AND MULTISPLIT OUTDOOR UNITS

MONOSPLIT OUTDOOR UNITS

HCNI 260 XA-1
HCNI 263 XA

HCKI 351 XA-1
HCNI 352 XA
HCNI 353 XA
HCKI 530 XA-1
HCKI 531 XA-1
HCNI 533 XA

HCKI 711 XA-1
HCNI 713 XA

HCSI 1081 XA-1

HCSI 1401 XA-1
HCSI 1601 XA-1

MULTISPLIT OUTDOOR UNITS

HCKU 472 X2
HCKU 531 X2

HCKU 601 X3
HCKU 761 X3

HCKU 811 X4

HCKU 1061 X4
HCKU 1201 X5

ROBUST, EASY TO INSTALL, HIGH PERFORMANCE

Robustness and resistance

These outdoor units are even more robust and resistant thanks to their sophisticated design. The specially ribbed panels have rounded corners and reinforced sides. These details help distribute the vertical load over the structure, making the outdoor unit so robust that it can support the weight of 5 people!

Control unit housing: greater reliability

The electronic control units have a simplified structure that helps to facilitate maintenance by preventing the accumulation of dust and water.

Simple maintenance

The number of screws on the top panel and the air outlet grill has been virtually halved - 3 or 4 screws instead of 6 on previous models - so disassembly and maintenance are much quicker.

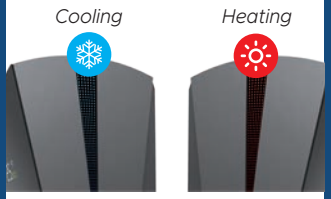
V-DESIGN DC INVERTER
Clean air, design, high performance

Turbo function

In both cooling and heating modes, Turbo function allows the user to quickly reach desired temperature to immediately cool or heat rooms.

High density filter

These remove dust and pollen by up to 80% and prolong the dust-proof effect.



Light effects

During operation, V-Design uses two colours to indicate which operating mode is set: blue for cooling, orange for heating.

delivery air angle on the previous model.

Storing air flow louvre position

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

Auto-brightness

When the room light is off, the display goes dark slowly after 5s, the fan speed is reduced and the buzzer goes into silent mode. When the room is back to light, these functions resume automatically according to the previous settings.

Wi-Fi control

Conveniently control air conditioners via smartphone. KK-Wi-Fi is a simple, intuitive app that allows users to control air conditioning wherever you are. Available for iOS and Android.

Simplicity of installation

The condensate drain pipe is characterised by flexibility and the possibility of two applications (right and left). The new layout of the indoor unit mounting brackets makes wall application more secure.

Simplicity of maintenance

V DESIGN wall unit design facilitates all maintenance, disassembly and cleaning operations.

RESIDENTIAL AND COMMERCIAL R410A

V-DESIGN DC INVERTER

Wall HKEU 262-352-532 XAL-(S)-1

Wi-Fi (optional)

Black (standard)

Wi-Fi (optional)

Silver

Infrared remote control

Main features

Model available with 3 different power levels: 2.64~5.50 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+.

SEER/SCOP values 7.4/4.1 (2.64 kW).

Operating range in cooling and heating: -15~50° C; -20~30° C.

Extremely quiet: 20 dB(A) (2.64 kW); 21 dB(A) (3.52~5.50 kW).

Installation flexibility: up to 30 m splitting length and 20 m height difference between O.U. and I.U. (5.50 kW).

Indoor unit model			HKEU 262 XAL-(S)-1	HKEU 352 XAL-(S)-1	HKEU 532 XAL-(S)-1
Outdoor unit model			HCNI 260 XA-1	HCNI 352 XA	HCNI 533 XA
Type			DC-Inverter heat pump		
Control			Remote control		
Rated capacity (T=+35°C)		kW	2.64 (1.23~3.30)	3.52 (1.33~4.47)	5.50 (1.82~6.07)
Rated absorbed power (T=+35°C)		kW	0.71 (0.10~1.26)	1.07 (0.10~1.71)	1.70 (0.14~2.35)
Rated energy efficiency coefficient		EER[3]	3.71	3.29	3.23
Seasonal energy efficiency class	Cooling	626/2011[1]	A++	A++	A++
Seasonal energy efficiency index		SEER[2]	7.4	6.9	6.6
Annual energy consumption		kWh/a	123	178	281
Theoretical load (Pdesignc)		kW	2.6	3.5	5.3
Rated capacity (T=+7°C)		kW	2.95 (0.85~3.72)	4.16 (1.04~4.88)	5.85 (1.38~6.68)
Rated absorbed power (T=+7°C)		kW	0.76 (0.13~1.32)	1.10 (0.16~1.73)	1.58 (0.20~2.41)
Rated energy performance coefficient		COP[3]	3.88	3.78	3.70
Energy efficiency class (intermediate climate season)	Heating	626/2011[1]	A+	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP[2]	4.1	4.1	4.0
Annual energy consumption		kWh/a	785	922	1470
Theoretical load (Pdesignh)		kW	2.3	2.7	4.2
Operating limits (outside temp.)	Cooling	°C	-15~50		
	Heating	°C	-20~30		
Electrical data					
Power	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz		
Power cable		Type	3 x 1.5 mm²	3 x 2.5 mm²	
Absorbed current (rated)	Cooling	A	3.1 (0.4~5.5)	4.8 (0.4~7.4)	7.1 (0.6~10.3)
	Heating	A	3.4 (0.5~5.7)	4.9 (0.7~7.5)	6.9 (0.9~10.5)
Maximum current		A	9.5	10	13
Maximum absorbed power		kW	2.1	2.2	3.1
Connection wires between I.U. and O.U.		no.	5 x 1.5 mm²	5 x 2.5 mm²	
Refrigerant circuit					
Refrigerant (GWP)[4]			R410A (2088)	R410A (2088)	R410A (2088)
Quantity refrigerant pre-load		Kg	0.80	0.95	1.35
Tons of CO2 equivalent		t	1.670	1.983	2.818
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")
Max splitting length		m	25	25	30
Max height difference I.U./O.U.		m	10	10	20
Split length without additional charge		m	5	5	5
Additional load		g/m	15	15	15
Indoor unit specifications					
Dimensions	LxDxH	mm	897x182x312	897x182x312	1004x305x205
	Net weight	Kg	9.5	9.9	13.5
Sound pressure level (I.U.)	Hi/Mi/Lo/ULo	dB(A)	35/26/21/20	36/29/22/21	42.5/35/33/21
Sound power level (I.U.)	Hi	dB(A)	51	49	54
Handled air volume	Hi/Mi/Lo	m³/h	400/300/240	500/270/350	740/620/480
Motor power (Output)		W	20	20	30
Specifications of outdoor units					
Dimensions	LxDxH	mm	770x300x555	800x333x555	800x333x554
	Net weight	Kg	26.6	29.1	35.1
Sound pressure level (O.U.)		dB(A)	55.5	56	55
Sound power level (O.U.)		dB(A)	61	61	63
Handled air (Max)		m³/h	1900	2000	2200
Motor power (Output)		no. x W	40	40	40
Optional parts					
Wired remote control			NO		
Centralised control			NO		
Wi-Fi module			KK-WIFI KIT		

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ACTIVE LINE DC INVERTER
Comfort, well-being and air quality

Quiet

The tangential fan line has been designed to guarantee maximum comfort during moments of rest and relaxation.

Comfort care

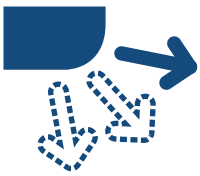
ACTIVE air conditioners are equipped with a device that automatically regulates the temperature and moisture in the room.

Cold currents prevention

Through this function in heating mode, it is possible to avoid the introduction of cold air into the room following the defrost cycles.

Simplicity of installation

The condensate drain pipe is characterised by flexibility and the possibility of two applications (right and left). The new layout of the indoor unit mounting brackets makes wall application more secure.



Memory effect

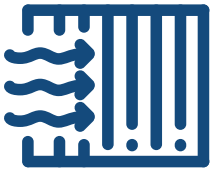
Upon unit re-start, this function allows the horizontal deflector to maintain the same angle tilt used and stored during the last machine use.

Temperature compensation

The temperature detected in the environment is corrected taking into account the stratification of the air.

Emergency mode

In the event of malfunction of the sensors in the indoor unit, the system works in emergency mode ensuring the air conditioning of the premises.



High density filter

ACTIVE is equipped with high-density filters that ensure the removal of pollen and dust up to 80% and prolong the effect without impurities, to always have clean room air.

ACTIVE LINE DC INVERTER

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

Wi-Fi (optional)

Infrared remote control

- HEPA filter
- Cold catalyst filter
- Self-cleaning function
- Self-diagnosis function
- High density filter

Main features

Wall model available with 4 different power levels: 2.59~7.14 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+.

SEER/SCOP values 6.7/4.1 (5.37 kW).

Extremely quiet: 22.5 dB (A) for the 2.59 kW model.

Operating range in cooling and heating: -15~50° C; -15~30° C.

Follow Me function: temperature sensor integrated in the remote control.

Indoor unit model			HKEU 263 XAL-1	HKEU 353 XAL-1	HKEU 533 XAL-1	HKEU 713 XAL-1
Outdoor unit model			HCNI 263 XA	HCNI 353 XA	HCNI 533 XA	HCNI 713 XA
Type			DC-Inverter heat pump			
Control			Remote control			
Rated capacity (T=+35°C)		kW	2.59 (1.02~3.22)	3.33 (1.08~4.10)	5.37 (1.81~6.12)	7.14 (2.67~7.88)
Rated absorbed power (T=+35°C)		kW	0.76 (0.10~1.24)	1.24 (0.10~1.58)	1.72 (0.14~2.36)	2.56 (0.24~3.03)
Rated energy efficiency coefficient		EER[3]	3.42	2.69	3.12	2.79
Seasonal energy efficiency class	Cooling	626/2011[1]	A++	A++	A++	A++
Seasonal energy efficiency index		SEER[2]	6.1	6.1	6.7	6.1
Annual energy consumption		kWh/a	143	189	277	402
Theoretical load (Pdesignc)		kW	2.5	3.3	5.3	7.0
Rated capacity (T=+7°C)		kW	2.98 (0.82~3.37)	3.74 (0.88~4.22)	5.52 (1.38~6.74)	7.97 (1.61~8.79)
Rated absorbed power (T=+7°C)		kW	0.79 (0.12~1.20)	1.26 (0.13~1.51)	1.67 (0.20~2.41)	2.78 (0.26~3.14)
Rated energy performance coefficient		COP[3]	3.76	2.96	3.30	2.86
Energy efficiency class (intermediate climate season)	Heating	626/2011[1]	A+	A+	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP[2]	4.0	4.0	4.1	4.0
Annual energy consumption		kWh/a	770	805	1400	1785
Theoretical load (Pdesignh)		kW	2.2	2.3	4.1	5.1
Operating limits (outside temp.)	Cooling	°C	-15~50			
	Heating	°C	-15~30			
Electrical data						
Power	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz			
Power cable		Type	3 x 2.5 mm²			3 x 4 mm²
Absorbed current (rated)	Cooling	A	0.4~5.4	0.4~6.9	0.6~10.3	1.0~13.2
	Heating	A	0.5~5.2	0.6~6.6	0.9~10.5	1.1~13.7
Maximum current		A	9.5	10	13	17
Maximum absorbed power		kW	2.1	2.2	3.1	3.7
Connection wires between I.U. and O.U.		no.	5 x 1.5 mm²			
Refrigerant circuit						
Refrigerant (GWP)[4]			R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
Quantity refrigerant pre-load		Kg	0.8	0.8	1.4	1.85
Tons of CO2 equivalent		t	1.670	1.670	2.923	3.862
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	15	15	15	30
Indoor unit specifications						
Dimensions	LxDxH	mm	715x194x285	805x194x285	957x213x302	1040x220x327
	Net weight	Kg	7.3	7.8	10.5	12
Sound pressure level (I.U.)	Hi/Mi/Lo/ULo	dB(A)	40/34/29.5/22.5	41/36/28/23	42.5/37/33/23.5	45/39/34/25
Sound power level (I.U.)	Hi	dB(A)	53	53	55	59
Handled air volume	Hi/Mi/Lo	m³/h	420/320/270	570/470/370	840/680/540	980/800/640
Motor power (Output)		W	40	40	40	50
Specifications of outdoor units						
Dimensions	LxDxH	mm	770x300x555	770x300x555	800x333x554	845x363x702
	Net weight	Kg	26	26.3	35.1	49.9
Sound pressure level (O.U.)		dB(A)	55.5	56	55	60
Sound power level (O.U.)		dB(A)	61	61	63	65
Handled air (Max)		m³/h	1800	1800	2200	2700
Motor power (Output)		no. x W	40	40	40	50
Optional parts						
Wired remote control			NO			
Centralised control			NO			
Wi-Fi module			KK-WIFI KIT			

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RESIDENTIAL AND COMMERCIAL R410A

CONSOLE

HFIU 350 ZAL

4 air distribution inlets for increased system energy efficiency

Infrared remote control

Main features

1 power level: 3.52 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+.

SEER/SCOP values up to 6.1/4.0.

Operating range in cooling and heating: -15~50° C; -15~24° C.

Compact design, depth of only 210 mm.

Double air distribution mode.

Anti-formaldehyde filter supplied.

Split length: 25 m.

Maximum height difference between O.U. and I.U.: 10 m.

Indoor unit model			**HFIU 350 ZAL**
Outdoor unit model			**HCKI 351 XA-1**
Type			**FULL DC-Inverter heat pump**
Control			Remote control
Rated capacity (T=+35°C)	Cooling	kW	3.52 (0.77~3.81)
Rated absorbed power (T=+35°C)		kW	1.21 (0.17~1.84)
Rated energy efficiency coefficient		EER[3]	2.91
Seasonal energy efficiency class		626/2011[1]	A++
Seasonal energy efficiency index		SEER[2]	6.1
Annual energy consumption		kWh/a	201
Theoretical load (Pdesignc)		kW	3.5
Rated capacity (T=+7°C)	Heating	kW	3.81 (0.46~4.34)
Rated absorbed power (T=+7°C)		kW	1.10 (0.15~1.47)
Rated energy performance coefficient		COP[3]	3.46
Energy efficiency class (intermediate climate season)		626/2011[1]	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP[2]	4.0
Annual energy consumption		kWh/a	1015
Theoretical load (Pdesignh)		kW	2.9
Operating limits (external temperature)	Cooling	°C	-15~50
	Heating	°C	-15~24
Electrical data			
Power	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ
Power cable		Type	3 x 2.5 mm^2
Absorbed current (rated)	Cooling	A	5.5 (1.4~8.1)
	Heating	A	4.8 (1.2~6.5)
Maximum current		A	9
Maximum absorbed power		kW	1.90
Connection wires between I.U. and O.U.		no.	4
Refrigerant circuit			
Refrigerant (GWP)[4]			R410A (2088)
Quantity refrigerant pre-load		Kg	1.05
Tons of CO2 equivalent		t	2.192
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	15
Indoor unit specifications			
Dimensions	LxDxH	mm	700x600x210
	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
Handled 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	29.9
Sound pressure level (O.U.)		dB(A)	56
Sound power level (O.U.)		dB(A)	62
Handled air (Max)		m^3/h	2000
Motor power (Output)		W	1 x 63
Optional parts			
Wired remote control			YES
Manual centralized control	Requires NIM-GRH interface		YES
Wi-Fi centralized control			XRV Mobile BMS

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COMPACT CASSETTE 60x60

HTFU 350-530 ZAL

NEW

Infrared remote control

Main features

2 power levels: 3.52~5.28 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+.

SEER/SCOP values up to 6.1/4.0.

Operating range in cooling and heating: -15~50° C; -15~24° C.

Compact dimensions: only 260 mm in height.

TFP 200 ZA panel with 360° air diffusion.

Electrical box inside the unit body.

Condensate drain pump with possibility of raising the discharge up to 750 mm from the lower part of the unit.

Indoor unit model				HTFU 350 ZAL	HTFU 530 ZAL
Outdoor unit model				HCKI 351 XA-1	HCKI 531 XA-1
Type				FULL DC-Inverter heat pump	
Control				Remote control	
Rated capacity (T=+35°C)			kW	3.52 (0.62~4.40)	5.28 (0.79~6.15)
Rated absorbed power (T=+35°C)			kW	1.08 (0.21~1.69)	1.82 (0.27~2.27)
Rated energy efficiency coefficient			EER[3]	3.26	2.90
Seasonal energy efficiency class	Cooling		626/2011[1]	A++	A++
Seasonal energy efficiency index			SEER[2]	6.1	6.1
Annual energy consumption			kWh/a	201	298
Theoretical load (Pdesignc)			kW	3.5	5.2
Rated capacity (T=+7°C)			kW	4.10 (0.62~5.13)	5.42 (0.88~6.29)
Rated absorbed power (T=+7°C)			kW	1.06 (0.50~1.83)	1.42 (0.30~2.31)
Rated energy performance coefficient			COP[3]	3.87	3.82
Energy efficiency class (intermediate climate season)	Heating		626/2011[1]	A+	A+
Seasonal energy efficiency index (intermediate climate season)			SCOP[2]	4.0	4.0
Annual energy consumption			kWh/a	1190	1610
Theoretical load (Pdesignh)			kW	3.4	4.6
Operating limits (external temperature)	Cooling		°C	-15~50	-15~50
	Heating		°C	-15~24	-15~24
Electrical data					
Power	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
Absorbed current (rated)	Cooling		A	4.8 (1.0~7.7)	8.1 (1.2~10.9)
	Heating		A	4.7 (2.3~8.4)	6.3 (1.4~10.5)
Maximum current			A	9	13.5
Maximum absorbed power			kW	1.90	2.95
Connection wires between I.U. and O.U.			no.	4	4
Refrigerant circuit					
Refrigerant (GWP)[4]				R410A (2088)	
Quantity refrigerant pre-load			Kg	1.05	1.35
Tons of CO2 equivalent			t	2.192	2.819
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	15	15
Indoor unit specifications					
Dimensions	LxDxH		mm	570x570x260	570x570x260
	Net weight		Kg	16.5	16.2
Sound pressure level (I.U.)	Hi/Mi/Lo		dB(A)	43/39/35	43/39/36
Sound power level (I.U.)	Hi		dB(A)	58	57
Handled 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	29.9	34.5
Sound pressure level (O.U.)			dB(A)	56	55.5
Sound power level (O.U.)			dB(A)	62	64
Handled air (Max)			m^3/h	2000	2000
Motor power (Output)			no. x W	1 x 63	1 x 34
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				XRV Mobile BMS	

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RESIDENTIAL AND COMMERCIAL R410A

SLIM CASSETTE 84x84

HTBI 710-1080-1400-1600 ZA

NEW

Infrared remote control

Main features

4 power levels: 7.03~15.53 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+ (7.03~10.55 kW); A+/A+ (14.07~15.53 kW).

Operating range in cooling and heating: -15~50° C; -15~24° C.

Pre-set for external air intake.

Electrical box inside the unit body.

Condensate drain pump with possibility of raising the discharge up to 750 mm from the lower part of the unit.

Installation flexibility: up to 65 m splitting length and 30 m height difference between O.U. and I.U. (10.55~15.53 kW).

Indoor unit model			HTBI 710 ZA	HTBI 1080 ZA	HTBI 1400 ZA	HTBI 1600 ZA
Outdoor unit model			HCKI 711 XA-1	HCSI 1081 XA-1	HCSI 1401 XA-1	HCSI 1601 XA-1
Type			FULL DC-Inverter heat pump			
Control			Remote control			
Rated capacity (T=+35°C)	Cooling	kW	7.03 (1.20~8.21)	10.55 (2.93~12.02)	14.07 (3.99~16.12)	15.53 (4.98~18.46)
Rated absorbed power (T=+35°C)	Cooling	kW	2.17 (0.40~3.16)	4.06 (0.98~4.62)	5.39 (1.33~6.20)	6.40 (1.66~7.10)
Rated energy efficiency coefficient	Cooling	EER[3]	3.24	2.60	2.61	2.43
Seasonal energy efficiency class	Cooling	626/2011[1]	A++	A++	A+	A+
Seasonal energy efficiency index	Cooling	SEER[2]	6.1	6.1	5.6	5.6
Annual energy consumption	Cooling	kWh/a	402	602	875	950
Theoretical load (Pdesignc)	Cooling	kW	7.0	10.5	14.0	15.2
Rated capacity (T=+7°C)	Heating	kW	7.62 (1.20~8.65)	11.13 (2.64~13.19)	16.12 (4.19~17.59)	18.17 (5.28~20.51)
Rated absorbed power (T=+7°C)	Heating	kW	2.05 (0.40~3.09)	3.09 (0.88~4.69)	5.36 (1.40~6.77)	5.74 (1.76~7.32)
Rated energy performance coefficient	Heating	COP[3]	3.72	3.60	3.01	3.17
Energy efficiency class (intermediate climate season)	Heating	626/2011[1]	A+	A+	A+	A+
Seasonal energy efficiency index (intermediate climate season)	Heating	SCOP[2]	4.0	4.0	4.0	4.0
Annual energy consumption	Heating	kWh/a	1820	3535	4025	4025
Theoretical load (Pdesignh)	Heating	kW	5.2	10.1	11.5	11.5
Operating limits (external temperature)	Cooling	°C	-15~50			
	Heating	°C	-15~24			
Electrical data						
Power	Outdoor unit	Ph-V-Hz	1~220~240V-50HZ	3~380~415V-50HZ	3~380~415V-50HZ	3~380~415V-50HZ
Power cable		Type	3 x 4 mm²	5 x 2.5 mm²	5 x 2.5 mm²	5 x 4 mm²
Absorbed current (rated)	Cooling	A	9.9 (1.8~14.4)	7.0 (1.7~8.0)	9.3 (2.3~10.7)	11.0 (2.9~12.3)
	Heating	A	8.9 (1.8~14.1)	5.3 (1.5~8.1)	9.2 (2.1~11.7)	9.9 (3.0~12.6)
Maximum current		A	14.4	10	13	14
Maximum absorbed power		kW	2.95	5.30	6.10	7.50
Connection wires between I.U. and O.U.		no.	5 (2 of which shielded)			
Refrigerant circuit						
Refrigerant (GWP)[4]			R410A (2088)			
Quantity refrigerant pre-load		Kg	1.95	3.2	4.00	4.3
Tons of CO2 equivalent		t	4.072	6.682	8.352	8.978
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø9.52(3/8") - ø15.88(5/8")			
Max. splitting length		m	50	65	65	65
Max height difference I.U./O.U.		m	25	30	30	30
Splitting length without additional load		m	5	5	5	5
Additional load		g/m	30	30	30	30
Indoor unit specifications						
Dimensions	LxDxH	mm	840x840x245	840x840x245	840x840x287	840x840x287
	Net weight	Kg	23	27.5	29	29.7
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	47/43/40	52/49/46	52/50/49	53/50.5/48
Sound power level (I.U.)	Hi	dB(A)	61	62	64	68
Handled air volume	Hi/Mi/Lo	m³/h	1378/1200/1032	1775/1620/1438	1715/1568/1381	1970/1737/1537
Motor power (Output)		W	141	141	141	232
Outside diameter of condensate drain		mm	ø32	ø32	ø32	ø32
Specifications of outdoor units						
Dimensions	LxDxH	mm	845x363x702	946x410x810	952x410x1333	952x410x1333
	Net weight	Kg	49	78.9	108.1	112.8
Sound pressure level (O.U.)		dB(A)	60.5	62	65	62.5
Sound power level (O.U.)		dB(A)	65	69	73	75
Handled air (Max)		m³/h	2700	4300	6800	7200
Motor power (Output)		no. x W	1 x 115	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			XRV Mobile BMS			

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DUCTED WITH MEDIUM HEAD

HUCU 350-530 ZAL

NEW

Infrared remote control

Main features

2 available power levels: 3.52~5.28 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+.

SEER/SCOP values 6.1/4.0 (5.28 kW).

Operating range in cooling and heating: -15~50° C; -15~24° C.

Automatic adjustment of the head of the fan at constant flow rate.

Flexi air inlet, from the bottom or from the back.

Condensate drain pump with possibility of raising the discharge up to 750 mm from the lower part of the unit.

Indoor unit model			HUCU 350 ZAL	HUCU 530 ZAL
Outdoor unit model			HCKI 351 XA-1	HCKI 531 XA-1
Type			FULL DC-Inverter heat pump	
Control			Remote control	
Rated capacity (T=+35°C)	Cooling	kW	3.52 (0.53~3.75)	5.28 (1.23~6.15)
Rated absorbed power (T=+35°C)		kW	1.30 (0.16~2.10)	1.64 (0.26~2.12)
Rated energy efficiency coefficient		EER[3]	2.71	3.22
Seasonal energy efficiency class		626/2011[1]	A+	A++
Seasonal energy efficiency index		SEER[2]	5.6	6.1
Annual energy consumption		kWh/a	219	304
Theoretical load (Pdesignc)		kW	3.5	5.3
Rated capacity (T=+7°C)	Heating	kW	3.81 (1.00~4.00)	5.86 (1.80~7.03)
Rated absorbed power (T=+7°C)		kW	1.20 (0.30~2.10)	1.58 (0.31~2.15)
Rated energy performance coefficient		COP[3]	3.18	3.71
Energy efficiency class (intermediate climate season)		626/2011[1]	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP[2]	4.0	4.0
Annual energy consumption		kWh/a	910	1505
Theoretical load (Pdesignh)		kW	2.6	4.3
Operating limits (external temperature)	Cooling	°C	-15~50	
	Heating	°C	-15~24	
Electrical data				
Power	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ	
Power cable		Type	3 x 2.5 mm^2	3 x 4 mm^2
Absorbed current (rated)	Cooling	A	5.7 (1.3~10.0)	7.2 (1.1~9.2)
	Heating	A	5.5 (1.5~10.0)	7.0 (1.3~9.3)
Maximum current		A	10	13.5
Maximum absorbed power		kW	1.90	2.95
Connection wires between I.U. and O.U.		no.	4	4
Refrigerant circuit				
Refrigerant (GWP)[4]			R410A (2088)	
Quantity refrigerant pre-load		Kg	1.05	1.35
Tons of CO2 equivalent		t	2.192	2.819
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	15	15
Indoor unit specifications				
Dimensions	LxDxH	mm	700x450x200	880x674x210
	Net weight	Kg	18	24.3
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	40/34.5/27.5	42/38/33
Sound power level (I.U.)	Hi	dB(A)	59	60
Handled air volume	Hi/Mi/Lo	m^3/h	600/480/300	880/650/350
Fan pressure head	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	29.9	34.5
Sound pressure level (O.U.)		dB(A)	56	55.5
Sound power level (O.U.)		dB(A)	62	64
Handled air (Max)		m^3/h	2000	2000
Motor power (Output)		no. x W	1 x 63	1 x 34
Optional parts				
Wired remote control			YES	
Manual centralized control			YES	
Wi-Fi centralized control			XRV Mobile BMS	

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DUCTED WITH MEDIUM HEAD

HUCI 710-1080-1400-1600 ZA

NEW

Infrared remote control

Main features

4 power levels: single-phase 7.03 kW; three-phase 10.55 ~ 15.20 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+ (7.03~10.55 kW); A+/A+ (14.07~15.20 kW).

SEER/SCOP values up to 6.1/4.0.

Operating range in cooling and heating: -15~50° C; -15~24° C.

Automatic adjustment of the head of the fan at constant flow rate.

Flexi air inlet, from the bottom or from the back.

Condensate drain pump with possibility of raising the discharge up to 750 mm from the lower part of the unit.

Indoor unit model			HUCI 710 ZA	HUCI 1080 ZA	HUCI 1400 ZA	HUCI 1600 ZA
Outdoor unit model			HCKI 711 XA-1	HCSI 1081 XA-1	HCSI 1401 XA-1	HCSI 1601 XA-1
Type			FULL DC-Inverter heat pump			
Control			Remote control			
Rated capacity (T=+35°C)		kW	7.03 (1.99~8.21)	10.55 (2.40~12.01)	14.07 (3.10~16.40)	15.20 (3.40~18.20)
Rated absorbed power (T=+35°C)		kW	2.18 (0.45~2.80)	4.06 (0.66~4.38)	5.03 (0.88~6.00)	6.30 (1.10~7.10)
Rated energy efficiency coefficient		EER[3]	3.23	2.60	2.80	2.41
Seasonal energy efficiency class	Cooling	626/2011[1]	A++	A++	A+	A+
Seasonal energy efficiency index		SEER[2]	6.1	6.1	5.9	5.6
Annual energy consumption		kWh/a	402	591	813	956
Theoretical load (Pdesignc)		kW	7.0	10.3	13.7	15.3
Rated capacity (T=+7°C)		kW	7.62 (2.40~8.65)	11.14 (2.78~13.2)	16.12 (3.50~18.20)	18.17 (4.20~20.50)
Rated absorbed power (T=+7°C)		kW	2.05 (0.48~2.85)	3.09 (0.65~4.40)	4.35 (0.92~5.90)	5.03 (1.15~7.20)
Rated energy performance coefficient		COP[3]	3.72	3.61	3.71	3.61
Energy efficiency class (intermediate climate season)	Heating	626/2011[1]	A+	A+	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP[2]	4.0	4.0	4.0	4.0
Annual energy consumption		kWh/a	2030	3675	4025	4235
Theoretical load (Pdesignh)		kW	5.8	10.5	11.5	12.1
Operating limits (external temperature)	Cooling	°C	-15~50			
	Heating	°C	-15~24			
Electrical data						
Power	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ	3-380~415V-50HZ		
Power cable		Type	3 x 4 mm²	5 x 2.5 mm²	5 x 2.5 mm²	5 x 4 mm²
Absorbed current (rated)	Cooling	A	10.0 (2.0~12.2)	7.5 (1.2~8.0)	8.7 (1.6~10.9)	10.9 (2.0~12.9)
	Heating	A	8.9 (2.1~12.4)	5.7 (1.2~8.0)	7.5 (1.7~10.7)	8.7 (2.1~13.1)
Maximum current		A	14	10	13	14
Maximum absorbed power		kW	2.95	5.30	6.10	7.50
Connection wires between I.U. and O.U.		no.	5 (2 of which shielded)			
Refrigerant circuit						
Refrigerant (GWP)[4]			R410A (2088)			
Quantity refrigerant pre-load		Kg	1.95	3.2	4.00	4.3
Tons of CO2 equivalent		t	4.072	6.682	8.352	8.978
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø9.52(3/8") - ø15.88(5/8")			
Max. splitting length		m	50	65	65	65
Max height difference I.U./O.U.		m	25	30	30	30
Splitting length without additional load		m	5	5	5	5
Additional load		g/m	30	30	30	30
Indoor unit specifications						
Dimensions	LxDxH	mm	1100x774x249	1360x774x249	1200x874x300	1200x874x300
	Net weight	Kg	31.5	40.5	47.6	47.6
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	44/42/40	47/43/40	50.5/49.5/48	54/52/50.5
Sound power level (I.U.)	Hi	dB(A)	64	63	70	74
Handled air volume	Hi/Mi/Lo	m³/h	1248/1054/839	1400/1150/750	2400/2040/1680	2600/2210/1820
Fan pressure head	Std/Max	Pa	25/160	37/160	50/160	50/160
Motor power (Output)		W	90	250	560	560
Outside diameter of condensate drain		mm	ø25	ø25	ø25	ø25
Specifications of outdoor units						
Dimensions	LxDxH	mm	845x363x702	946x410x810	952x410x1333	952x410x1333
	Net weight	Kg	49	78.9	108.1	112.8
Sound pressure level (O.U.)		dB(A)	60.5	62	65	62.5
Sound power level (O.U.)		dB(A)	65	69	73	75
Handled air (Max)		m³/h	2700	4300	6800	7200
Motor power (Output)		no. x W	1 x 115	1 x 150	2 x 126	2 x 126
Optional parts						
Wired remote control			YES			
Manual centralized control			YES			
Wi-Fi centralized control			XRV Mobile BMS			

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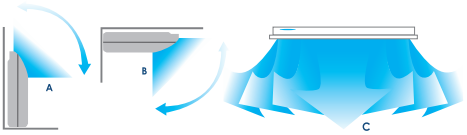
RESIDENTIAL AND COMMERCIAL R410A

FLOOR/CEILING

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

NEW

Infrared remote control



Installation flexibility: possibility of installation even in the corners of the ceiling, in the event that it is not possible to install the unit in the centre of the room due to the presence of any obstacles.

Main features

5 power sizes: single phase 5.28 ~ 7.03 kW; three-phase 10.55 ~ 15.82 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+.

SEER/SCOP values up to 6.1/4.0.

Operating range in cooling and heating: -15~50° C; -15~24° C.

Terminal for remote on-off control and output for alarm signal in case of malfunction.

Turbo function, for heating and cooling the room quickly.

Indoor unit model			HSFU 530 ZAL	HSFI 710 ZA1	HSFI 1080 ZA1	HSFI 1400 ZA1	HSFI 1600 ZA1
Outdoor unit model			HCKI 531 XA-1	HCKI 711 XA-1	HCSI 1081 XA-1	HCSI 1401 XA-1	HCSI 1601 XA-1
Type			FULL DC-Inverter heat pump				
Control			Remote control				
Rated capacity (T=+35°C)		kW	5.28 (2.86~5.61)	7.03 (1.20~8.21)	10.55 (2.93~12.02)	14.07 (4.10~16.41)	15.82 (4.98~18.11)
Rated absorbed power (T=+35°C)		kW	1.63 (0.61~1.80)	2.29 (0.40~3.16)	4.06 (0.98~4.62)	5.19 (1.37~6.31)	6.06 (1.66-6.97)
Rated energy efficiency coefficient		EER[3]	3.24	3.07	2.60	2.71	2.61
Seasonal energy efficiency class	Cooling	626/2011[1]	A++	A++	A++	A++	A++
Seasonal energy efficiency index		SEER[2]	6.1	6.1	6.1	6.1	6.1
Annual energy consumption		kWh/a	304	402	602	803	918
Theoretical load (Pdesignc)		kW	5.3	7.0	10.5	14.0	16.0
Rated capacity (T=+7°C)		kW	5.57 (2.40~5.83)	7.62 (1.20~8.65)	11.13 (2.64~13.19)	16.12 (4.40~18.46)	18.17 (5.28~20.51)
Rated absorbed power (T=+7°C)		kW	1.50 (0.51~1.53)	2.05 (0.40~3.09)	2.99 (0.88~4.69)	4.73 (1.47~6.59)	5.65 (1.76~7.32)
Rated energy performance coefficient		COP[3]	3.71	3.72	3.72	3.41	3.22
Energy efficiency class (intermediate climate season)	Heating	626/2011[1]	A+	A+	A+	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP[2]	4.0	4.0	4.0	4.0	4.0
Annual energy consumption		kWh/a	1540	1855	3605	4130	4200
Theoretical load (Pdesignh)		kW	4.4	5.3	10.3	11.8	12.0
Operating limits (external temperature)	Cooling	°C	-15~50	-15~50	-15~50	-15~50	-15~50
	Heating	°C	-15~24	-15~24	-15~24	-15~24	-15~24
Electrical data							
Power	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ		3-380~415V-50HZ		
Power cable		Type	3 x 4 mm²	3 x 4 mm²	5 x 2.5 mm²	5 x 2.5 mm²	5 x 4 mm²
Absorbed current (rated)	Cooling	A	7.3 (2.8~7.9)	10.4 (1.8~14.4)	7.0 (1.7~8.0)	9.0 (2.4~10.9)	10.5 (2.9~12.0)
	Heating	A	6.6 (2.4~6.8)	8.9 (1.8~14.1)	5.2 (1.5~8.1)	8.2 (2.5~11.4)	9.7 (3.0~12.6)
Maximum current		A	13.5	14.4	10	13	14
Maximum absorbed power		kW	2.95	3.16	5.30	6.59	7.50
Connection wires between I.U. and O.U.		no.	4	5 (2 of which shielded)			
Refrigerant circuit							
Refrigerant (GWP)[4]			R410A (2088)				
Quantity refrigerant pre-load		Kg	1.35	1.95	3.2	4.00	4.3
Tons of CO2 equivalent		t	2.819	4.072	6.682	8.352	8.978
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	65	65	65
Max height difference I.U./O.U.		m	20	25	30	30	30
Splitting length without additional load		m	5	5	5	5	5
Additional load		g/m	15	30	30	30	30
Indoor unit specifications							
Dimensions	LxDxH	mm	1068x675x235	1068x675x235	1650x675x235	1650x675x235	1650x675x235
	Net weight	Kg	28	26.8	39	41.2	41.4
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	42/38.5/34.5	50/46/41	51/47/42	54/50/46	54/47/42
Sound power level (I.U.)	Hi	dB(A)	55	63	63	67	71
Handled air volume	Hi/Mi/Lo	m³/h	880/760/650	1208/1066/853	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 90
Outside diameter of condensate drain		mm	ø25	ø25	ø25	ø25	ø25
Specifications of outdoor units							
Dimensions	LxDxH	mm	800x333x554	845x363x702	946x410x810	952x410x1333	952x410x1333
	Net weight	Kg	34.5	49	78.9	108.1	112.8
Sound pressure level (O.U.)		dB(A)	55.5	60.5	62	65	62.5
Sound power level (O.U.)		dB(A)	64	65	69	73	75
Handled air (Max)		m³/h	2000	2700	4300	6800	7200
Motor power (Output)		no. x W	1 x 34	1 x 115	1 x 150	2 x 126	2 x 126
Optional parts							
Wired remote control			YES				
Manual centralized control			YES				
Wi-Fi centralized control			XRV Mobile BMS				

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TWIN COMBINATIONS

Indoor unit model				**2 x HTBI 710 ZA**
Outdoor unit model				**HCSI 1401 XA-1**
Type				**FULL DC-Inverter heat pump**
Control				Remote control
Rated capacity (T=+35°C)	Cooling		kW	14.07 (3.99~16.12)
Rated absorbed power (T=+35°C)			kW	5.39 (1.33~6.20)
Rated energy efficiency coefficient			EER[3]	2.61
Seasonal energy efficiency class			626/2011[1]	A+
Seasonal energy efficiency index			SEER[2]	5.6
Annual energy consumption			kWh/a	875
Theoretical load (Pdesignc)			kW	14.0
Rated capacity (T=+7°C)	Heating		kW	16.12 (4.19~17.58)
Rated absorbed power (T=+7°C)			kW	5.36 (1.40~6.77)
Rated energy performance coefficient			COP[3]	3.00
Energy efficiency class (intermediate climate season)			626/2011[1]	A+
Seasonal energy efficiency index (intermediate climate season)			SCOP[2]	4.0
Annual energy consumption			kWh/a	4025
Theoretical load (Pdesignh)			kW	11.5
Operating limits (external temperature)	Cooling		°C	-15~50
	Heating		°C	-15~24
Electrical data				
Power	Indoor unit		Ph-V-Hz	1-220~240V-50HZ
	Outdoor unit			3-380~415V-50HZ
Power cable			Type	5 x 2.5 mm^2
Absorbed current (rated)	Cooling		A	9.3 (2.3~10.7)
	Heating		A	9.2 (2.1~11.7)
Maximum current			A	13
Maximum absorbed power			kW	6.77
Connection wires between each I.U. and O.U.			no.	5 (2 of which shielded)
Refrigerant circuit				
Refrigerant (GWP)[4]				R410A (2088)
Quantity refrigerant pre-load			Kg	4.0
Tons of CO2 equivalent			t	8.352
Diameter of refrigerant piping on liquid/gas	Indoor unit		mm (inches)	ø9.52(3/8") - ø15.88(5/8")
	Outdoor unit			
Max. splitting length			m	65
Max height difference I.U./O.U.			m	30
Splitting length without additional load			m	5
Additional load			g/m	30

Indoor unit model				**2 x HUCI 710 ZA**
Outdoor unit model				**HCSI 1401 XA-1**
Type				**FULL DC-Inverter heat pump**
Control				Remote control
Rated capacity (T=+35°C)	Cooling		kW	13.72 (3.08~16.41)
Rated absorbed power (T=+35°C)			kW	5.03 (0.88~6.00)
Rated energy efficiency coefficient			EER[3]	2.73
Seasonal energy efficiency class			626/2011[1]	A+
Seasonal energy efficiency index			SEER[2]	5.9
Annual energy consumption			kWh/a	813
Theoretical load (Pdesignc)			kW	13.7
Rated capacity (T=+7°C)	Heating		kW	16.12 (3.52~18.17)
Rated absorbed power (T=+7°C)			kW	4.35 (0.92~5.90)
Rated energy performance coefficient			COP[3]	3.71
Energy efficiency class (intermediate climate season)			626/2011[1]	A+
Seasonal energy efficiency index (intermediate climate season)			SCOP[2]	4.0
Annual energy consumption			kWh/a	4025
Theoretical load (Pdesignh)			kW	11.5
Operating limits (external temperature)	Cooling		°C	-15~50
	Heating		°C	-15~24
Electrical data				
Power	Indoor unit		Ph-V-Hz	1-220~240V-50HZ
	Outdoor unit			3-380~415V-50HZ
Power cable			Type	5 x 2.5 mm^2
Absorbed current (rated)	Cooling		A	8.7 (1.6~10.9)
	Heating		A	7.5 (1.7~10.7)
Maximum current			A	13
Maximum absorbed power			kW	6.10
Connection wires between each I.U. and O.U.			no.	5 (2 of which shielded)
Refrigerant circuit				
Refrigerant (GWP)[4]				R410A (2088)
Quantity refrigerant pre-load			Kg	4.0
Tons of CO2 equivalent			t	8.352
Diameter of refrigerant piping on liquid/gas	Indoor unit		mm (inches)	ø9.52(3/8") - ø15.88(5/8")
	Outdoor unit			
Max. splitting length			m	65
Max height difference I.U./O.U.			m	30
Splitting length without additional load			m	5
Additional load			g/m	30

TWIN COMBINATIONS

Indoor unit model			**HSFI 710 ZA1**
Outdoor unit model			**HCSI 1401 XA-1**
Type			**FULL DC-Inverter heat pump**
Control			Remote control
Rated capacity (T=+35°C)	Cooling	kW	14.07 (4.10~16.41)
Rated absorbed power (T=+35°C)		kW	5.19 (1.37~6.31)
Rated energy efficiency coefficient		EER[3]	2.71
Seasonal energy efficiency class		626/2011[1]	A++
Seasonal energy efficiency index		SEER[2]	6.1
Annual energy consumption		kWh/a	803
Theoretical load (Pdesignc)		kW	14.0
Rated capacity (T=+7°C)	Heating	kW	16.12 (4.40~18.46)
Rated absorbed power (T=+7°C)		kW	4.73 (1.47~6.59)
Rated energy performance coefficient		COP[3]	3.41
Energy efficiency class (intermediate climate season)		626/2011[1]	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP[2]	4.0
Annual energy consumption		kWh/a	4130
Theoretical load (Pdesignh)		kW	11.8
Operating limits (external temperature)	Cooling	°C	-15~50
	Heating	°C	-15~24
Electrical data			
Power	Indoor unit	Ph-V-Hz	1-220~240V-50HZ
	Outdoor unit		3-380~415V-50HZ
Power cable		Type	5 x 2.5 mm^2
Absorbed current (rated)	Cooling	A	9.0 (2.4~10.9)
	Heating	A	8.2 (2.5~11.4)
Maximum current		A	13
Maximum absorbed power		kW	6.59
Connection wires between each I.U. and O.U.		no.	5 (2 of which shielded)
Refrigerant circuit			
Refrigerant (GWP)[4]			R410A (2088)
Quantity refrigerant pre-load		Kg	4.0
Tons of CO2 equivalent		t	8.352
Diameter of refrigerant piping on liquid/gas	Indoor unit	mm (inches)	ø9.52(3/8") - ø15.88(5/8")
	Outdoor unit		
Max. splitting length		m	65
Max height difference I.U./O.U.		m	30
Splitting length without additional load		m	5
Additional load		g/m	30

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 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.

The indoor units that can be used in twin combinations are the slim cassette, the medium head duct and the floor/ceiling combined with an external 14.00 kW unit.

MULTISPLIT OUTDOOR UNITS

HCKU 472 X2
HCKU 531 X2

HCKU 601 X3
HCKU 761 X3

HCKU 811 X4

HCKU 1061 X4
HCKU 1201 X5

Main features

7 available power levels: from 4.15 to 12.30 kW.

Seasonal energy efficiency class in cooling / heating up to A++/A+ (4,15, 8.00 and 8.20 kW).

Operating range: -15~50° C in cooling mode; -15~24° C in heating mode.

All outdoor unit compressors are equipped with Sine Wave Inverter Technology 180°, the function that significantly reduces noise levels and considerably increases energy efficiency at low frequencies.

Model			HCKU 472 X2	HCKU 531 X2	HCKU 601 X3	HCKU 761 X3	HCKU 811 X4	HCKU 1061 X4	HCKU 1201 X5
Type			Outdoor DC-Inverter heat pump unit						
Connectable indoor units (min - max)		no.	1 - 2	1 - 2	2 - 3	2 - 3	2 - 4	2 - 4	2 - 5
Rated capacity (T=+35°C)	Cooling	kW	4.15 (1.76~4.54)	5.20 (2.08~6.29)	6.10 (2.44~7.32)	8.00 (2.77~8.69)	8.20 (3.04~9.93)	11.05 (3.71~13.78)	12.30 (4.18~14.00)
Rated absorbed power (T=+35°C)	Cooling	kW	1.28 (0.42~1.43)	1.79 (0.59~2.16)	1.89 (0.68~2.38)	2.48 (0.76~2.93)	2.47 (0.84~3.09)	3.42 (0.89~4.29)	3.73 (1.01~4.55)
Rated energy efficiency coefficient	Cooling	EER[3]	3.24	2.91	3.23	3.23	3.32	3.23	3.30
Seasonal energy efficiency class	Cooling	626/2011[1]	A++	A++	A++	A++	A++	A++	A++
Seasonal energy efficiency index	Cooling	SEER[2]	6.8	6.2	6.3	6.6	6.8	7.1	7.6
Annual energy consumption	Cooling	kWh/a	206	282	339	403	401	523	566
Theoretical load (Pdesignc)	Cooling	kW	4.0	5.0	6.1	7.6	7.8	10.6	12.3
Rated capacity (T=+7°C)	Heating	kW	4.40 (1.89~4.87)	5.50 (2.20~6.66)	6.60 (2.64~7.92)	8.60 (2.87~9.02)	8.80 (3.26~10.65)	11.30 (3.89~13.32)	12.50 (4.18~14.94)
Rated absorbed power (T=+7°C)	Heating	kW	1.17 (0.39~1.33)	1.48 (0.50~1.85)	1.78 (0.64~2.22)	2.32 (0.70~2.70)	2.34 (0.83~3.05)	3.045 (0.83~3.98)	3.37 (0.91~4.21)
Rated energy performance coefficient	Heating	COP[3]	3.76	3.72	3.71	3.71	3.76	3.72	3.71
Energy efficiency class (intermediate climate season)	Heating	626/2011[1]	A+	A	A	A+	A+	A	A
Seasonal energy efficiency index (intermediate climate season)	Heating	SCOP[2]	4.0	3.8	3.8	4.0	4.0	3.8	3.8
Annual energy consumption	Heating	kWh/a	1295	1695	2034	1995	2415	3426	3537
Theoretical load (Pdesignh)	Heating	kW	3.7	4.6	5.5	5.7	6.9	9.3	9.6
Operating limits (external 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		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	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	3 x 6 mm^2
Rated absorbed current	Cooling	A	5.9 (3.0~5.9)	7.6 (2.8~7.0)	8.3 (4.4~7.7)	10.7 (3.3~10.2)	9.9 (5.8~12.1)	16.9 (5.4~15.3)	16.6 (3.0~16.0)
	Heating	A	5.2 (2.7~5.6)	6.7 (2.3~6.9)	7.8 (3.5~7.1)	9.8 (3.2~9.5)	10.6 (7.2~15.3)	13.0 (5.9~14.6)	14.7 (3.0~15.8)
Maximum current		A	11	12	15	16	17	21.5	22
Maximum absorbed power		kW	2.65	2.3	2.8	3.3	3.5	4.6	4.7
Connection wires between each I.U. and O.U.		no.	4	4	4	4	4	4	4
Refrigerant circuit									
Refrigerant (GWP)[4]			R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
Quantity refrigerant pre-load		Kg	1.25	1.7	2.1	2.1	2.4	3.0	3.6
Tons of CO2 equivalent		t	2.610	3.550	4.385	4.385	5.011	6.264	7.517
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")	5 x ø6.35(1/4") 4 x ø9.52(3/8") + 1 x ø12.74(1/2")
Total splitting length		m	40	40	60	60	80	80	80
Max length of a single refrigeration line		m	25	25	30	30	35	35	35
Max height difference I.U./O.U.		m	15	15	15	15	15	15	15
Max height difference between I.U.		m	10	10	10	10	10	10	10
Splitting length without additional load		m	15	15	22.5	22.5	30	30	37.5
Additional load		g/m	15	15	15	15	15	15	15
Product specifications									
Dimensions	LxDxH	mm	800x333x554	800x333x554	845x363x702	845x363x702	946x410x810	946x410x810	946x410x810
	Net weight	Kg	31.5	36.0	47.0	52.7	67.6	70.0	76.0
Sound pressure level		dB(A)	54	56.5	57.5	59.5	60	63.5	62
Sound power level		dB(A)	64	65	65	69	67	69	69
Handled air (Max)		m^3/h	2100	2100	2700	3500	3800	5500	5500
Motor power (Input)		W	40	40	50	50	120	120	120

Energy efficiency values refer to the following combinations: HCKU 472 X2 + 2xHKEU 262 XAL -- HCKU 531 X2 + 2xHKEU 262 XAL -- HCKU 601 X3 + 3xHKEU 262 XAL -- HCKU 761 X3 + 3xHKEU 262 XAL -- HCKU 811 X4 + 4xHKEU 262 XAL -- HCKU 1061 X4 + 4xHKEU 262 XAL -- HCKU 1201 X5 + 5xHKEU 262 XAL.

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 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.

V-DESIGN DC INVERTER MULTISPLIT INTERNAL UNITS

Wall HKEU 262-352-532 XAL-(S)-1

Wi-Fi (optional)

Infrared remote control

Model			HKEU 262 XAL-(S)-1	HKEU 352 XAL-(S)-1	HKEU 532 XAL-(S)-1
Type			Indoor wall unit		
Control			Remote control		
Rated heating	Cooling	kW	2.64	3.52	5.28
	Heating	kW	2.93	3.81	5.57
Electrical data					
Power		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	897x182x312	897x182x312	1004x205x350
	Net weight	Kg	9.5	9.9	13
Sound pressure level	Hi/Mi/Lo/ULo	dB(A)	35/26/21	36/29/22	39/33/28
Sound power level	Hi	dB(A)	51	49	56
Treated air (High / Med. / Low)		m^3/h	400/300/240	500/350/270	740/620/480
Motor power (Output)		W	16	16	16
Optional parts					
Wi-Fi module			KK-WIFI KIT		
Wired remote control			NO		
Centralised control			NO		

ACTIVE LINE DC INVERTER MULTISPLIT INTERNAL UNITS

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

Wi-Fi (optional)

Infrared remote control

Model			HKEU 263 XAL-1	HKEU 353 XAL-1	HKEU 533 XAL-1	HKEU 713 XAL-1
Type			Indoor wall unit			
Control			Remote control			
Rated heating	Cooling	kW	2.59	3.33	5.37	7.14
	Heating	kW	2.98	3.74	5.52	7.97
Electrical data						
Power		Ph-V-Hz	-	-	-	-
Connection wires between I.U. and O.U.		no.	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") - ø12.74(1/2")	ø9.52(3/8") - ø15.88(5/8")
Product specifications						
Dimensions	LxDxH	mm	715x194x285	805x194x285	957x213x302	1040x220x327
	Net weight	Kg	7.3	7.8	10.5	12
Sound pressure level	Hi/Mi/Lo/ULo	dB(A)	40/34/29.5/22.5	41/36/28/23	42.5/37/33/23.5	45/39/34/25
Sound power level	Hi	dB(A)	53	53	55	59
Treated air (High / Med. / Low)		m^3/h	420/320/270	570/470/370	840/680/540	980/800/640
Motor power (Output)		W	16	16	16	16
Optional parts						
Wi-Fi module			KK-WIFI KIT			
Wired remote control			NO			
Centralised control			NO			

MULTISPLIT INTERNAL UNITS

Console HFIU 350 ZAL

Infrared remote control

Model			HFIU 350 ZAL
Type			**Internal console unit**
Control			Remote control
Rated heating	Cooling	kW	3.49
	Heating	kW	3.78
Electrical data			
Power		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") - ø9.52(3/8")
Product specifications			
Dimensions	LxDxH	mm	700x210x600
	Net weight	Kg	14.8
Sound pressure level	Hi/Mi/Lo	dB(A)	43/41.5/35
Sound power level	Hi	dB(A)	58
Treated air (High / Med. / Low)		m^3/h	512/480/370
Motor power (Output)		W	16
Optional parts			
Wired remote control			YES
Manual centralized control		Requires NIM-GRH interface	YES
Wi-Fi centralized control			XRV Mobile BMS

SELECTED LINE

PRECISE QUESTIONS, TIMELY RESPONSES

Attentive to customer **satisfaction** and ideas, Hokkaido identifies specific needs, responding in turn with dedicated ranges.

The **SELECTED LINE** in fact includes all those products meant to satisfy a series of diversified needs, which cannot be met with products of the other lines.

For those who want to air-condition rooms but do not like outdoor units, for those who want to **dehumidify and air-condition** spaces but prefer portable solutions, for those who have decided to replace their electric boiler, choosing the sustainability and efficiency of heat pumps: **SELECTED LINE** is the response for you.

SELECTED LINE

HOKKAIDO

AIR-CONDITIONER WITHOUT EXTERNAL UNIT

INSIDE, the Inverter heat pump and on/off without outdoor unit, ideal for historic centres, makes it possible to cool in summer and heat in winter.

In one body: the classic outdoor and indoor unit are joined, normally divided into traditional air conditioners.

HTWIS 2200 X-1

HTWIS 1650 G

Adjustable air flow

INSIDE is characterised by clean, modern lines, is only 17 cm deep and can be installed both at the bottom and at the top on perimeter walls.

It is possible to adjust the orientation of the air outlet flap with a simple pressure on the appropriate button on the panel, on the machine.

No frost system for harsh winter climates

The condensate collection tray is constantly preheated, thus preventing the phenomenon of water freezing during winter operation.

Easy installation, reduced maintenance

Without an outdoor unit, it can be easily installed on any perimeter wall, even without the presence of a qualified refrigeration installer.
Just make two holes of 162 mm in diameter in the wall without stretching the connection channel with external units. If INSIDE should only work in heating mode, it can be installed without a condensate drain hose. In the absence of refrigeration pipes, maintenance is practically non-existent.

Silent operation

And who doesn't appreciate the pleasure of silence?

Thanks to the power adopted, the internal layout and the wise use of soundproofing materials, exceptional levels of silence have been achieved with INSIDE: it is really difficult to distinguish it from a normal split wall appliance. Because real well-being is being able to rest or sleep in a comfortable, noise-free environment.

AIR-CONDITIONER WITHOUT EXTERNAL UNIT



Remote and on-board control

INSIDE is provided as standard with a practical, functional remote control. In addition, the desired settings can also be set on the machine, from a convenient control panel from which the 'heating' function can be deactivated and LOCK activated to lock the keypad.

Ideal for historic centres with retractable outdoor grills

The external tilting grills open only when the machine is in operation; this reduces the entry of dust, noise and pollution, less maintenance, even less visibility to 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 outer grilles can be painted with the same colour as the façade to almost completely hide its installation.

Model			HTWIS 2200 X-1	HTWIS 1650 G
Type			Monobloc Double duct DC-Inverter heat pump	Monobloc Double duct Heat pump On-Off
Control			Panel + Remote control	Panel + Remote control
Rated cooling power	Cool.	kW	2.20	1.65
Cooling power (OverFAN)	*	kW	3.10	
Rated absorbed power	PEER	kW	0.625	0.580
Annual energy consumption Cooling		kWh/a	312.5	290
Rated energy efficiency class	Cool.	626/2011[1]	A+	A
Rated energy efficiency index	Cool.	EER[2]	3.52	2.84
Rated Heating power	Heat.	kW	2.20	1.70
Heating power (OverFAN)	*	kW	3.05	
Rated absorbed power	PCOP	kW	0.593	0.545
Rated energy efficiency class	Heat.	626/2011[1]	A+	A
Rated energy efficiency coefficient	Heat.	COP[2]	3.71	3.12
Operating limit (indoor environment)	Cool.	°C	18~35	18~35
	Heat.		5~27	5~27
Operating limit (outdoor environment)	Cool.	°C	-5~43	-5~43
	Heat.		-10~24	-10~24
Dehumidifying capacity		L/h	1.12	0.80
Sound pressure level (1 m of distance and 1.5 m height)	H-L	dB(A)	41-27	38-29
Sound power level	LWA	dB(A)	55	53
Electrical data				
Power			220-240V~/50Hz/1P	220-240V~/50Hz/1P
MAX absorbed current		A	3.4	3
Refrigerant circuit				
Refrigerant (GWP)[3] - Quantity			R410A (2088) - Kg. 0.520	R410A (2088) - Kg. 0.480
Fans				
Indoor fan speed		no.	4	3
Outdoor fan speed		no.	4	3
Air flow at Max indoor/outdoor speed		m3/h	440/560	360/430
Air flow at Medium indoor/outdoor speed		m3/h	330/390	300/360
Air flow at Minimum indoor/outdoor speed		m3/h	260/340	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 x170
Net weight		kg	48.50	46.00
Optional accessories				
Aesthetic KIT for lower side cover			TWIS 2200 CINF	

Test conditions	Room temperature	Outdoor 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 EU Regulation No.206/2012 - - Value measured according to harmonised standard EN14825. 3 Value measured according to harmonised standard EN14511. 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.

MONOBLOC PORTABLE AIR CONDITIONER 3 IN 1

For cooling, dehumidification, ventilation

HMCZ 90 F

The Hokkaido portable monoblock air conditioner immediately brings comfort to your home thanks to the better quality of the dehumidified and filtered air.

Very compact design:

This portable unit is set apart for its practicality: it operates with a simple electrical connection. What's more, its compact design makes it ideal for even the smallest spaces. It is easy to move in any environment, thanks to the multi-directional wheels and the practical handle on the back.

Condensate management system

- In cooling mode with automatic vaporization: the condensate evaporates to the outside.
- In dehumidification mode with continuous drainage: the appropriate drain pipe is connected.

Available functions

- Sleep: gradually increases the set temperature and guarantees reduced noise for greater well-being at night and energy savings.
- Self-diagnosis: the error codes are shown on the display of the unit, facilitating its resolution.
- Swing: automatic horizontal oscillation of the air delivery flaps, also manageable by remote control.

Main features

Cooling power: 2.60 kW.

Coolant gas: R410A.

Energy efficiency class: A.

Sound pressure: 48 dB(A).

Very extended air flow: up to 5 m distance.

4 ventilation speeds: high, medium, low and auto.

Intuitive multifunction remote control (included).

Control panel with touch keys, LCD display.

White finish.

Washable and easily removable air filter.

Timer usable both in cooling and in dehumidification mode.

Portable			HMCZ 90 F
Power		Ph/V/Hz	1/220~240/50
Rated power in cooling(1)	P rated	kW	2.60
Rated absorbed power in cooling(1)	P EER	kW	1.00
Rated energy efficiency index(1)	EER d	-	2.60
Energy efficiency class in cooling		-	A
Energy consumption for single duct heating units in cooling	Q SD	kWh/h	1.00
Sound pressure level (Hi/Me/Lo)	LPA	dB(A)	53/51/48
Refrigerant	Type/qty.	Kg	R410A/0,52
Global warming potential	GWP	kg CO_2 eq.	2088
Dimensions	LxDxH	mm	300x480x630
Net weight		kg	24
Dehumidifying capacity		L/d	50
Treated air flow		m^3/h	360
Flexible air exhaust pipe	Diameter	mm	150
	Length		200~1200

(1) Value measured according to harmonised standard EN14511: 35° C DB, 28.3° C WB.

PORTABLE DEHUMIDIFIER

Eliminates excess moisture wherever you put it

DH16-A1

Hokkaido presents the portable dehumidifier that creates the right degree of humidity for small rooms, extracting humidity from the air up to 16 liters per day.

DH16-A1 is equipped with a 2.1 liter condensate collection tank and connection for possible continuous drainage of condensate.

It lets you set the desired moisture level, from 30% to 90%, and choose two types of air ventilation speeds (high/low).

If the tank is full, the light signal is activated via an indicator on the control panel with relative auto switch-off.

Main functions

- Continuous dehumidification function.
- Comfort function: automatically sets the degree of humidity according to the detected room temperature.

Main features

Dehumidification capacity: 16 L/day (30°C DB - RH 80%)

Tank capacity: 2.1 liters.

Coolant gas: R134A.

Sound pressure: 42 dB(A).

Automatic defrost, signaled by light indicator.

Air filter, easily removable for cleaning.

Timer.

Portable			DH16-A1
Power		Ph/V/Hz	1/220~240/50
Rated dehumidifying capacity	30°C DB - RH 80%	L/d	16
Control			Electronic
Defrost type			Fan
Defrost			Automatic
Moisture detection and control			Digital hygrostat
Adjustment range (relative humidity)		%	30 ~ 90
Consumption		W	410
Rated current		A	2.10
Sound pressure level		dB(A)	42
Treated air flow		m3/h	135
Supplied tank capacity		L	2.1
Operating range		°C	5 ~ 32
Refrigerant	Type/qty.	Kg	R134A/0.12
Global warming potential	GWP	kg CO_2 eq.	1430
Dimensions	LxDxH	mm	340x220x495
Net weight		Kg	13.3

TECHNICAL APPENDIX

R410A COMBINATIONS

HCKU 472 X2 Cooling

Combinations	Unit indoor	Combination		Rated cooling capacity (kW)		Total Cooling capacity (kW)	Absorbed power (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal Account 2.0
		Unit A	Unit B	Unit A	Unit B	std.	std.	Std. power						
1 units	53	53	—	4.10	—	4.10	1.27	3.23	—	—	—	—	YES	-
2 units	**26+26**	**26**	**26**	**2.05**	**2.05**	**4.15**	**1.28**	**3.24**	**4.0**	**6.8**	**206**	**A++**	**YES**	**-**
	26+35	26	35	1.76	2.34	4.15	1.28	3.24	4.0	6.8	206	A++	YES	-

HCKU 472 X2 Heating

Combinations	Unit indoor	Combination		Rated heating capacity (kW)		Total heating capacity (kW)	Absorbed power (kW)	COP (W/W)	Pdesignh	SCOP	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal Account 2.0
		Unit A	Unit B	Unit A	Unit B	std.	std.	Std. power						
1 units	53	53	—	4.40	—	4.40	1.19	3.71	—	—	—	—	YES	YES
2 units	**26+26**	**26**	**26**	**2.20**	**2.20**	**4.40**	**1.17**	**3.76**	**3.7**	**4.0**	**1295**	**A+**	**YES**	**YES**
	26+35	26	35	1.93	2.57	4.50	1.19	3.78	3.7	4.0	1295	A+	YES	YES

HCKU 531 X2 Cooling

Combinations	Unit indoor	Combination		Rated cooling capacity (kW)		Total Cooling capacity (kW)	Absorbed power (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal Account 2.0
		Unit A	Unit B	Unit A	Unit B	std.	std.	Std. power						
1 units	53	53	—	5.00	—	5.00	1.72	2.91	—	—	—	—	NO	-
2 units	**26+26**	**26**	**26**	**2.60**	**2.60**	**5.20**	**1.79**	**2.91**	**5.0**	**6.2**	**282**	**A++**	**NO**	**-**
	26+35	26	35	2.31	3.09	5.40	1.83	2.95	5.2	6.3	289	A++	NO	-
	26+53	26	53	1.80	3.60	5.40	1.77	3.05	5.2	6.3	289	A++	NO	-
	35+35	35	35	2.70	2.70	5.40	1.79	3.01	5.2	6.3	289	A++	NO	-

HCKU 531 X2 Heating

Combinations	Unit indoor	Combination		Rated heating capacity (kW)		Total heating capacity (kW)	Absorbed power (kW)	COP (W/W)	Pdesignh	SCOP	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal Account 2.0
		Unit A	Unit B	Unit A	Unit B	std.	std.	Std. power						
1 units	53	53	—	5.30	—	5.30	1.43	3.71	—	—	—	—	NO	YES
2 units	**26+26**	**26**	**26**	**2.75**	**2.75**	**5.50**	**1.48**	**3.71**	**4.6**	**3.8**	**1695**	**A**	**NO**	**YES**
	26+35	26	35	2.40	3.20	5.60	1.49	3.75	4.6	3.8	1695	A	NO	YES
	26+53	26	53	1.87	3.73	5.60	1.47	3.81	4.6	3.8	1695	A	NO	YES
	35+35	35	35	2.80	2.80	5.60	1.49	3.75	4.6	3.8	1695	A	NO	YES

HCKU 601 X3 Cooling

Combinations	Unit indoor	Combination			Rated cooling capacity (kW)			Total cooling capacity (kW)	Absorbed power (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal account 2.0
		Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	std.	std.	Std. power						
2 units	26+26	26	26	—	2.65	2.65	—	5.30	1.65	3.21	5.3	5.6	331	A+	NO	-
	26+35	26	35	—	2.57	3.43	—	6.00	1.87	3.21	6.0	5.6	375	A+	NO	-
	26+53	26	53	—	2.10	4.20	—	6.30	1.94	3.24	6.1	5.6	381	A+	NO	-
	35+35	35	35	—	3.10	3.10	—	6.20	1.93	3.21	6.0	5.6	375	A+	NO	-
3 units	**26+26+26**	**26**	**26**	**26**	**2.10**	**2.10**	**2.10**	**6.10**	**1.89**	**3.23**	**6.1**	**6.3**	**339**	**A++**	**YES**	**-**
	26+26+35	26	26	35	1.89	1.89	2.52	6.10	1.89	3.23	6.1	6.3	339	A++	YES	-

HCKU 601 X3 Heating

Combinations	Unit indoor	Combination			Rated heating capacity (kW)			Total heating capacity (kW)	Absorbed power (kW)	COP (W/W)	Pdesignh	SCOP	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal account 2.0
		Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	std.	std.	Std. power						
2 units	26+26	26	26	—	2.95	2.95	—	5.90	1.63	3.61	4.8	3.8	1768	A	NO	NO
	26+35	26	35	—	2.70	3.60	—	6.30	1.75	3.61	5.1	3.8	1886	A	NO	NO
	26+53	26	53	—	2.10	4.20	—	6.30	1.76	3.58	5.1	3.8	1886	A	NO	NO
	35+35	35	35	—	3.15	3.15	—	6.30	1.75	3.61	5.1	3.8	1886	A	NO	NO
3 units	**26+26+26**	**26**	**26**	**26**	**2.23**	**2.23**	**2.23**	**6.60**	**1.78**	**3.71**	**5.5**	**3.8**	**2026**	**A**	**YES**	**YES**
	26+26+35	26	26	35	2.01	2.01	2.68	6.60	1.78	3.71	5.5	3.8	2034	A	YES	YES

R410A COMBINATIONS

HCKU 761 X3 Cooling

Combinations	Unit indoor	Combination			Rated cooling capacity (kW)			Total cooling capacity (kW)	Absorbed power (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal account 2.0
		Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	std.	std.	Std. power						
2 units	26+26	26	26	—	2.65	2.65	—	5.30	1.65	3.21	5.3	6.3	294	A++	NO	-
	26+35	26	35	—	2.57	3.43	—	6.00	1.87	3.21	6.0	6.3	333	A++	NO	-
	26+53	26	53	—	2.27	4.53	—	6.80	2.11	3.23	6.8	6.3	378	A++	NO	-
	35+35	35	35	—	3.15	3.15	—	6.30	1.96	3.21	6.3	6.3	350	A++	NO	-
	35+53	35	53	—	2.72	4.08	—	6.80	2.11	3.23	6.8	6.3	378	A++	NO	-
3 units	**26+26+26**	**26**	**26**	**26**	**2.63**	**2.63**	**2.63**	**8.00**	**2.48**	**3.23**	**7.6**	**6.6**	**403**	**A++**	**YES**	**-**
	26+26+35	26	26	35	2.37	2.37	3.16	8.00	2.45	3.27	7.6	6.6	403	A++	YES	-
	26+35+35	26	35	35	2.15	2.87	2.87	8.00	2.44	3.28	7.6	6.6	403	A++	YES	-
	35+35+35	35	35	35	2.63	2.63	2.63	8.00	2.44	3.28	7.6	6.6	403	A++	YES	-

HCKU 761 X3 Heating

Combinations	Unit indoor	Combination			Rated heating capacity (kW)			Total heating capacity (kW)	Absorbed power (kW)	COP (W/W)	Pdesignh	SCOP	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal account 2.0
		Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	std.	std.	Std. power						
2 units	26+26	26	26	—	3.00	3.00	—	6.00	1.66	3.61	5.5	3.8	2026	A	NO	NO
	26+35	26	35	—	2.70	3.60	—	6.30	1.75	3.61	5.5	3.8	2026	A	NO	NO
	26+53	26	53	—	2.33	4.67	—	7.00	1.93	3.62	5.5	3.8	2026	A	NO	NO
	35+35	35	35	—	3.25	3.25	—	6.50	1.80	3.61	5.5	3.8	2026	A	NO	NO
	35+53	35	53	—	2.80	4.20	—	7.00	1.93	3.62	5.5	3.8	2026	A	NO	NO
3 units	**26+26+26**	**26**	**26**	**26**	**2.73**	**2.73**	**2.73**	**8.60**	**2.32**	**3.71**	**5.7**	**4.0**	**1995**	**A+**	**YES**	**YES**
	26+26+35	26	26	35	2.49	2.49	3.32	8.60	2.29	3.75	5.7	4.0	1995	A+	YES	YES
	26+35+35	26	35	35	2.26	3.02	3.02	8.60	2.27	3.78	5.7	4.0	1995	A+	YES	YES
	35+35+35	35	35	35	2.77	2.77	2.77	8.60	2.27	3.78	5.7	4.0	1995	A+	YES	YES

HCKU 811 X4 Cooling

Combinations	Unit indoor	Combination				Rated cooling capacity (kW)				Total cooling capacity (kW)	Absorbed power (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal account 2.0
		Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	std.	std.	Std. power						
2 units	26+26	26	26	—	—	2.65	2.65	—	—	5.30	1.65	3.21	5.3	6.1	304	A++	NO	-
	26+35	26	35	—	—	2.57	3.43	—	—	6.00	1.87	3.21	6.0	6.1	344	A++	NO	-
	26+53	26	53	—	—	2.43	4.87	—	—	7.30	2.27	3.21	7.3	6.1	419	A++	NO	-
	26+71	26	71	—	—	2.05	5.45	—	—	7.50	2.34	3.21	7.5	6.1	430	A++	NO	-
	35+35	35	35	—	—	3.25	3.25	—	—	6.50	2.02	3.21	6.5	6.1	373	A++	NO	-
	35+53	35	53	—	—	2.92	4.38	—	—	7.30	2.27	3.21	7.3	6.1	419	A++	NO	-
	35+71	35	71	—	—	2.50	5.00	—	—	7.50	2.34	3.21	7.5	6.1	430	A++	NO	-
	53+53	53	53	—	—	3.75	3.75	—	—	7.50	2.34	3.21	7.5	6.1	430	A++	NO	-
3 units	26+26+26	26	26	26	—	2.37	2.37	2.37	—	7.10	2.18	3.25	7.4	6.5	398	A++	YES	-
	26+26+35	26	26	35	—	2.34	2.34	3.12	—	7.80	2.40	3.25	7.4	6.5	398	A++	YES	-
	26+26+53	26	26	53	—	1.95	1.95	3.90	—	7.80	2.40	3.25	7.4	6.5	398	A++	YES	-
	26+35+35	26	35	35	—	2.13	2.84	2.84	—	7.80	2.40	3.25	7.4	6.5	398	A++	YES	-
	26+35+53	26	35	53	—	1.80	2.40	3.60	—	7.80	2.40	3.25	7.4	6.5	398	A++	YES	-
	35+35+35	35	35	35	—	2.60	2.60	2.60	—	7.80	2.40	3.25	7.4	6.5	398	A++	YES	-
4 units	**26+26+26+26**	**26**	**26**	**26**	**26**	**2.05**	**2.05**	**2.05**	**2.05**	**8.20**	**2.47**	**3.32**	**7.8**	**6.8**	**401**	**A++**	**YES**	**-**
	26+26+26+35	26	26	26	35	1.89	1.89	1.89	2.53	8.20	2.47	3.32	7.8	6.8	401	A++	NO	-

R410A COMBINATIONS

HCKU 811 X4 Heating

Combinations	Unit indoor	Combination				Rated heating capacity (kW)				Total heating capacity (kW)	Absorbed power (kW)	COP (W/W)	Pdesignh	SCOP	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal account 2.0
		Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	std.	std.	Std. power						
2 units	26+26	26	26	—	—	3.00	3.00	—	—	6.00	1.71	3.50	4.6	3.8	1702	A	NO	NO
	26+35	26	35	—	—	3.00	4.00	—	—	7.00	2.00	3.50	5.4	3.8	1986	A	NO	NO
	26+53	26	53	—	—	2.63	5.27	—	—	7.90	2.26	3.50	6.1	3.8	2241	A	NO	NO
	26+71	26	71	—	—	2.15	5.75	—	—	7.90	2.26	3.50	6.1	3.8	2241	A	NO	NO
	35+35	35	35	—	—	3.75	3.75	—	—	7.50	2.14	3.50	5.8	3.8	2128	A	NO	NO
	35+53	35	53	—	—	3.20	4.80	—	—	8.00	2.29	3.50	6.2	3.8	2269	A	NO	NO
	35+71	35	71	—	—	3.20	4.80	—	—	8.00	2.29	3.50	6.2	3.8	2269	A	NO	NO
	53+53	53	53	—	—	4.00	4.00	—	—	8.00	2.29	3.50	6.2	3.8	2269	A	NO	NO
3 units	26+26+26	26	26	26	—	2.87	2.87	2.87	—	8.60	2.28	3.77	6.8	3.9	2432	A	YES	YES
	26+26+35	26	26	35	—	2.58	2.58	3.44	—	8.60	2.28	3.77	6.8	3.9	2432	A	YES	YES
	26+26+53	26	26	53	—	2.15	2.15	4.30	—	8.60	2.28	3.77	6.8	3.9	2432	A	YES	YES
	26+35+35	26	35	35	—	2.35	3.13	3.13	—	8.60	2.28	3.77	6.8	3.9	2432	A	YES	YES
	26+35+53	26	35	53	—	1.98	2.65	3.97	—	8.60	2.28	3.77	6.8	3.9	2432	A	YES	YES
	35+35+35	35	35	35	—	2.87	2.87	2.87	—	8.60	2.28	3.77	6.8	3.9	2432	A	YES	YES
4 units	**26+26+26+26**	**26**	**26**	**26**	**26**	**2.23**	**2.23**	**2.23**	**2.23**	**8.80**	**2.34**	**3.76**	**6.9**	**4.0**	**2415**	**A+**	**YES**	**YES**
	26+26+26+35	26	26	26	35	2.10	2.10	2.10	2.80	8.80	2.42	3.64	6.9	4.0	2415	A+	NO	NO

HCKU 1061 X4 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	Tax deductions 65%	Thermal account 2.0
		Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	std.	std.	Std. power						
2 units	26+26	26	26	—	—	2.65	2.65	—	—	5.30	1.65	3.21	5.3	6.8	273	A++	NO	-
	26+35	26	35	—	—	2.57	3.43	—	—	6.00	1.87	3.21	6.0	6.8	309	A++	NO	-
	26+53	26	53	—	—	2.50	5.00	—	—	7.50	2.34	3.21	7.5	6.8	386	A++	NO	-
	26+71	26	71	—	—	2.59	6.91	—	—	9.50	2.96	3.21	9.5	6.8	489	A++	NO	-
	35+35	35	35	—	—	3.50	3.50	—	—	7.00	2.18	3.21	7.0	6.8	360	A++	NO	-
	35+53	35	53	—	—	3.40	5.10	—	—	8.50	2.65	3.21	8.5	6.8	438	A++	NO	-
	35+71	35	71	—	—	3.33	6.67	—	—	10.00	3.12	3.21	10.0	6.8	515	A++	NO	-
	53+53	53	53	—	—	5.00	5.00	—	—	10.00	3.12	3.21	10.0	6.8	515	A++	NO	-
3 units	26+26+26	26	26	26	—	2.50	2.50	2.50	—	7.50	2.34	3.21	7.5	7.2	365	A++	NO	-
	26+26+35	26	26	35	—	2.55	2.55	3.40	—	8.50	2.65	3.21	8.5	7.2	413	A++	NO	-
	26+26+53	26	26	53	—	2.50	2.50	5.00	—	10.00	3.12	3.21	10.0	7.2	486	A++	NO	-
	26+26+71	26	26	71	—	2.14	2.14	5.71	—	10.00	3.12	3.21	10.0	7.2	486	A++	NO	-
	26+35+35	26	35	35	—	2.59	3.45	3.45	—	9.50	2.96	3.21	9.5	7.2	462	A++	NO	-
	26+35+53	26	35	53	—	2.31	3.08	4.62	—	10.00	3.12	3.21	10.0	7.2	486	A++	NO	-
	26+35+71	26	35	71	—	2.00	2.67	5.33	—	10.00	3.12	3.21	10.0	7.2	486	A++	NO	-
	26+53+53	26	53	53	—	2.00	4.00	4.00	—	10.00	3.12	3.21	10.0	7.2	486	A++	NO	-
	35+35+35	35	35	35	—	3.33	3.33	3.33	—	10.00	3.12	3.21	10.0	7.2	486	A++	NO	-
	35+35+53	35	35	53	—	2.86	2.86	4.29	—	10.00	3.12	3.21	10.0	7.2	486	A++	NO	-
	35+35+71	35	35	71	—	2.50	2.50	5.00	—	10.00	3.12	3.21	10.0	7.2	486	A++	NO	-
	35+53+53	35	53	53	—	2.50	3.75	3.75	—	10.00	3.12	3.21	10.0	7.2	486	A++	NO	-
4 units	**26+26+26+26**	**26**	**26**	**26**	**26**	**2.65**	**2.65**	**2.65**	**2.65**	**11.05**	**3.42**	**3.23**	**10.6**	**7.1**	**523**	**A++**	**YES**	**-**
	26+26+26+35	26	26	26	35	2.45	2.45	2.45	3.26	11.05	3.42	3.23	10.6	7.1	523	A++	NO	-
	26+26+26+53	26	26	26	53	2.12	2.12	2.12	4.24	11.05	3.42	3.23	10.6	7.1	523	A++	NO	-
	26+26+35+35	26	26	35	35	2.27	2.27	3.03	3.03	11.05	3.42	3.23	10.6	7.1	523	A++	NO	-
	26+26+35+53	26	26	35	53	1.99	1.99	2.65	3.98	11.05	3.42	3.23	10.6	7.1	523	A++	NO	-
	26+35+35+35	26	35	35	35	2.12	2.83	2.83	2.83	11.05	3.42	3.23	10.6	7.1	523	A++	NO	-
	26+35+35+53	26	35	35	53	1.87	2.49	2.49	3.74	11.05	3.42	3.23	10.6	7.1	523	A++	NO	-
	35+35+35+35	35	35	35	35	2.65	2.65	2.65	2.65	11.05	3.42	3.23	10.6	7.1	523	A++	NO	-

R410A COMBINATIONS

HCKU 1061 X4 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	Tax deductions 65%	Thermal account 2.0
		Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	std.	std.	Std. power						
2 units	26+26	26	26	—	—	3.00	3.00	—	—	6.00	1.65	3.63	6.2	3.5	2480	A	NO	NO
	26+35	26	35	—	—	3.00	4.00	—	—	7.00	1.93	3.63	4.7	3.5	1860	A	NO	NO
	26+53	26	53	—	—	2.93	5.87	—	—	8.80	2.43	3.62	5.4	3.4	2234	A	NO	NO
	26+71	26	71	—	—	2.67	7.13	—	—	9.80	2.71	3.62	4.7	3.4	1915	A	NO	NO
	35+35	35	35	—	—	3.75	3.75	—	—	7.50	2.07	3.62	6.8	3.5	2728	A	NO	NO
	35+53	35	53	—	—	3.76	5.64	—	—	9.40	2.60	3.62	5.8	3.4	2393	A	NO	NO
	35+71	35	71	—	—	3.33	6.67	—	—	10.00	2.76	3.62	4.7	3.4	1915	A	NO	NO
	53+53	53	53	—	—	5.05	5.05	—	—	10.10	2.80	3.61	7.3	3.6	2833	A	NO	NO
3 units	26+26+26	26	26	26	—	3.33	3.33	3.33	—	10.00	2.75	3.63	8.9	3.6	3466	A	NO	NO
	26+26+35	26	26	35	—	3.03	3.03	4.04	—	10.10	2.78	3.63	7.8	3.6	3014	A	NO	NO
	26+26+53	26	26	53	—	2.68	2.68	5.35	—	10.70	2.96	3.61	8.5	3.6	3315	A	NO	NO
	26+26+71	26	26	71	—	2.28	2.28	6.14	—	10.70	2.96	3.61	8.5	3.6	3315	A	NO	NO
	26+35+35	26	35	35	—	2.92	3.89	3.89	—	10.70	2.95	3.63	8.9	3.6	3466	A	NO	NO
	26+35+53	26	35	53	—	2.47	3.29	4.94	—	10.70	2.96	3.62	8.9	3.6	3466	A	NO	NO
	26+35+71	26	35	71	—	2.14	2.85	5.71	—	10.70	2.96	3.62	8.9	3.6	3466	A	NO	NO
	26+53+53	26	53	53	—	2.14	4.28	4.28	—	10.70	2.96	3.61	8.9	3.6	3466	A	NO	NO
	35+35+35	35	35	35	—	3.57	3.57	3.57	—	10.70	2.95	3.63	8.9	3.6	3466	A	NO	NO
	35+35+53	35	35	53	—	3.06	3.06	4.59	—	10.70	2.96	3.61	8.9	3.6	3466	A	NO	NO
	35+35+71	35	35	71	—	2.68	2.68	5.35	—	10.70	2.96	3.61	8.9	3.6	3466	A	NO	NO
	35+53+53	35	53	53	—	2.68	4.01	4.01	—	10.70	2.96	3.61	8.9	3.6	3466	A	NO	NO
4 units	**26+26+26+26**	**26**	**26**	**26**	**26**	**2.78**	**2.78**	**2.78**	**2.77**	**11.30**	**3.04**	**3.72**	**9.3**	**3.8**	**3426**	**A**	**YES**	**YES**
	26+26+26+35	26	26	26	35	2.56	2.56	2.56	3.42	11.30	3.05	3.70	9.3	3.8	3426	A	NO	NO
	26+26+26+53	26	26	26	53	2.22	2.22	2.22	4.44	11.30	3.05	3.70	9.3	3.8	3426	A	NO	NO
	26+26+35+35	26	26	35	35	2.38	2.38	3.17	3.17	11.30	3.05	3.70	9.3	3.8	3426	A	NO	NO
	26+26+35+53	26	26	35	53	2.08	2.08	2.78	4.16	11.30	3.05	3.70	9.3	3.8	3426	A	NO	NO
	26+35+35+35	26	35	35	35	2.22	2.96	2.96	2.96	11.30	3.05	3.70	9.3	3.8	3426	A	NO	NO
	26+35+35+53	26	35	35	53	1.96	2.61	2.61	3.92	11.30	3.05	3.70	9.3	3.8	3426	A	NO	NO
	35+35+35+35	35	35	35	35	2.78	2.78	2.78	2.77	11.30	3.05	3.70	9.3	3.8	3426	A	NO	NO

R410A COMBINATIONS

HCKU 1201 X5 Cooling

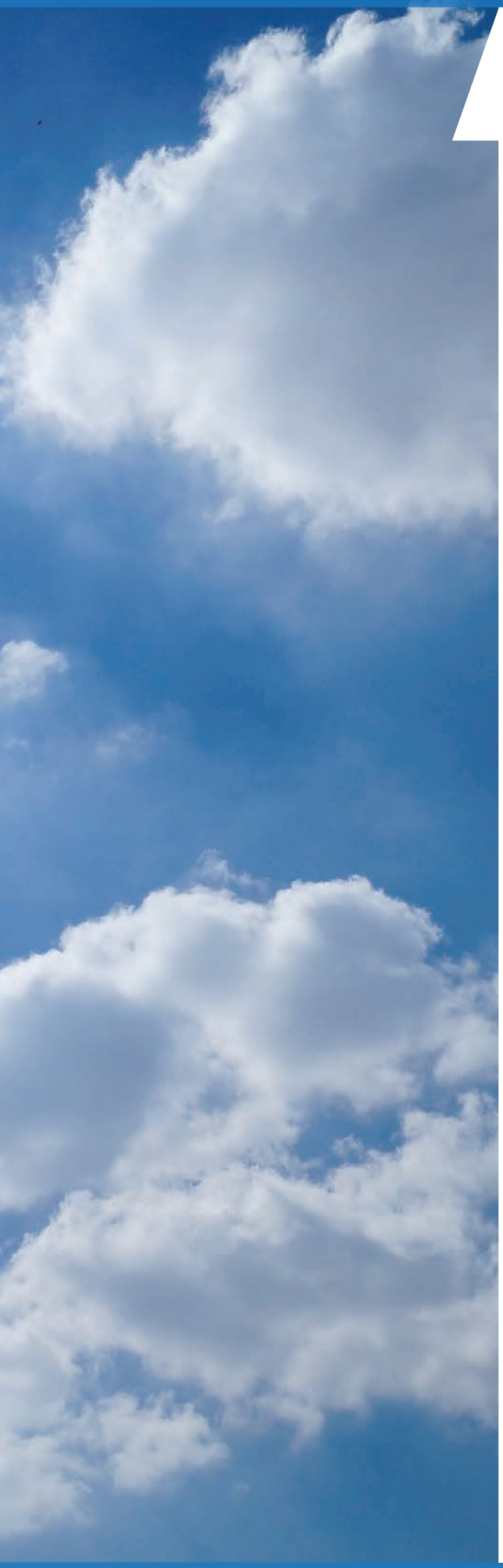
Comb.	Unit indoor	Combination					Rated cooling capacity (kW)					Total cooling capacity (kW)	Absorbed power (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal account 2.0
		Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	std.	std.	Std. power						
2 units	26+26	26	26	—	—	—	2.57	3.43	—	—	—	6.00	1.86	3.23	6.0	6.2	339	A++	NO	-
	26+35	26	35	—	—	—	2.50	5.00	—	—	—	7.50	2.34	3.21	7.5	6.2	423	A++	NO	-
	26+53	26	53	—	—	—	2.65	7.05	—	—	—	9.70	3.02	3.21	9.7	6.2	548	A++	NO	-
	26+71	26	71	—	—	—	3.50	3.50	—	—	—	7.00	2.17	3.23	7.0	6.2	395	A++	NO	-
	35+35	35	35	—	—	—	3.40	5.10	—	—	—	8.50	2.65	3.21	8.5	6.2	480	A++	NO	-
	35+53	35	53	—	—	—	3.33	6.67	—	—	—	10.00	3.12	3.21	10.0	6.2	565	A++	NO	-
	35+71	35	71	—	—	—	5.25	5.25	—	—	—	10.50	3.27	3.21	10.5	6.2	593	A++	NO	-
	53+53	53	53	—	—	—	4.93	6.57	—	—	—	11.50	3.58	3.21	11.5	6.2	649	A++	NO	-
3 units	26+26+26	26	26	26	—	—	2.67	2.67	2.67	—	—	8.00	2.46	3.25	8.0	6.5	431	A++	NO	-
	26+26+35	26	26	35	—	—	2.70	2.70	3.60	—	—	9.00	2.78	3.24	9.0	6.5	485	A++	NO	-
	26+26+53	26	26	53	—	—	2.63	2.63	5.25	—	—	10.50	3.26	3.22	10.5	6.5	565	A++	NO	-
	26+26+71	26	26	71	—	—	2.46	2.46	6.57	—	—	11.50	3.57	3.22	11.5	6.5	619	A++	NO	-
	26+35+35	26	35	35	—	—	2.45	3.27	3.27	—	—	9.00	2.78	3.24	9.0	6.5	485	A++	NO	-
	26+35+53	26	35	53	—	—	2.54	3.38	5.08	—	—	11.00	3.42	3.22	11.0	6.5	592	A++	NO	-
	26+35+71	26	35	71	—	—	2.30	3.07	6.13	—	—	11.50	3.57	3.22	11.5	6.5	619	A++	NO	-
	26+53+53	26	53	53	—	—	2.40	4.80	4.80	—	—	12.00	3.74	3.21	12.0	6.5	646	A++	NO	-
	35+35+35	35	35	35	—	—	3.17	3.17	3.17	—	—	9.50	2.93	3.24	9.5	6.5	512	A++	NO	-
	35+35+53	35	35	53	—	—	3.29	3.29	4.93	—	—	11.50	3.57	3.22	11.5	6.5	619	A++	NO	-
	35+35+71	35	35	71	—	—	3.00	3.00	6.00	—	—	12.00	3.74	3.21	12.0	6.5	646	A++	NO	-
	35+53+53	35	53	53	—	—	3.00	4.50	4.50	—	—	12.00	3.74	3.21	12.0	6.5	646	A++	NO	-
	35+53+71	35	53	71	—	—	2.67	4.00	5.33	—	—	12.00	3.74	3.21	12.0	6.5	646	A++	NO	-
	53+53+53	53	53	53	—	—	4.00	4.00	4.00	—	—	12.00	3.74	3.21	12.0	6.5	646	A++	NO	-
4 units	26+26+26+26	26	26	26	26	—	2.63	2.63	2.63	2.63	—	10.50	3.25	3.23	10.5	6.8	540	A++	NO	-
	26+26+26+35	26	26	26	35	—	2.65	2.65	2.65	3.54	—	11.50	3.57	3.22	11.5	6.8	592	A++	NO	-
	26+26+26+53	26	26	26	53	—	2.40	2.40	2.40	4.80	—	12.00	3.74	3.21	12.0	6.8	618	A++	NO	-
	26+26+26+71	26	26	26	71	—	2.17	2.17	2.17	5.79	—	12.30	3.83	3.21	12.3	6.8	633	A++	NO	-
	26+26+35+35	26	26	35	35	—	2.46	2.46	3.29	3.29	—	11.50	3.57	3.22	11.5	6.8	592	A++	NO	-
	26+26+35+53	26	26	35	53	—	2.25	2.25	3.00	4.50	—	12.00	3.74	3.21	12.0	6.8	618	A++	NO	-
	26+26+35+71	26	26	35	71	—	2.05	2.05	2.73	5.47	—	12.30	3.83	3.21	12.3	6.8	633	A++	NO	-
	26+26+53+53	26	26	53	53	—	2.05	2.05	4.10	4.10	—	12.30	3.83	3.21	12.3	6.8	633	A++	NO	-
	26+35+35+35	26	35	35	35	—	2.30	3.07	3.07	3.07	—	11.50	3.57	3.22	11.5	6.8	592	A++	NO	-
	26+35+35+53	26	35	35	53	—	2.17	2.89	2.89	4.34	—	12.30	3.83	3.21	12.3	6.8	633	A++	NO	-
	26+35+35+71	26	35	35	71	—	1.94	2.59	2.59	5.18	—	12.30	3.83	3.21	12.3	6.8	633	A++	NO	-
	26+35+53+53	26	35	53	53	—	1.94	2.59	3.88	3.88	—	12.30	3.83	3.21	12.3	6.8	633	A++	NO	-
	35+35+35+35	35	35	35	35	—	2.88	2.88	2.88	2.88	—	11.50	3.57	3.22	11.5	6.8	592	A++	NO	-
	35+35+35+53	35	35	35	53	—	2.73	2.73	2.73	4.10	—	12.30	3.83	3.21	12.3	6.8	633	A++	NO	-
5 units	**26+26+26+26+26**	**26**	**26**	**26**	**26**	**26**	**2.46**	**2.46**	**2.46**	**2.46**	**2.46**	**12.30**	**3.73**	**3.30**	**12.3**	**7.6**	**566**	**A++**	**YES**	**-**
	26+26+26+26+35	26	26	26	26	35	2.31	2.31	2.31	2.31	3.08	12.30	3.73	3.30	12.3	7.6	566	A++	YES	-
	26+26+26+26+53	26	26	26	26	53	2.05	2.05	2.05	2.05	4.10	12.30	3.76	3.27	12.3	7.6	566	A++	YES	-
	26+26+26+35+35	26	26	26	35	35	2.17	2.17	2.17	2.89	2.89	12.30	3.75	3.28	12.3	7.6	566	A++	YES	-
	26+26+26+35+53	26	26	26	35	53	1.94	1.94	1.94	2.59	3.88	12.30	3.80	3.23	12.3	7.6	566	A++	YES	-
	26+26+35+35+35	26	26	35	35	35	2.05	2.05	2.73	2.73	2.73	12.30	3.75	3.28	12.3	7.6	566	A++	YES	-
	26+35+35+35+35	26	35	35	35	35	1.94	2.59	2.59	2.59	2.59	12.30	3.76	3.27	12.3	7.6	566	A++	YES	-

R410A COMBINATIONS

HCKU 1201 X5 Heating

Comb.	Unit indoor	Combination					Rated heating capacity (kW)					Total heating capacity (kW)	Absorbed power (kW)	COP (W/W)	Pdesignc	SCOP	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal account 2.0
		Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	std.	std.	Std. power						
2 units	26+26	26	26	—	—	—	2.91	3.89	—	—	—	6.80	1.87	3.63	6.8	3.6	2644	A	NO	NO
	26+35	26	35	—	—	—	2.93	5.87	—	—	—	8.80	2.42	3.63	8.8	3.6	3422	A	NO	NO
	26+53	26	53	—	—	—	2.78	7.42	—	—	—	10.20	2.82	3.62	9.0	3.6	3500	A	NO	NO
	26+71	26	71	—	—	—	3.75	3.75	—	—	—	7.50	2.07	3.63	7.3	3.6	2839	A	NO	NO
	35+35	35	35	—	—	—	3.76	5.64	—	—	—	9.40	2.59	3.63	8.8	3.8	3242	A	NO	NO
	35+53	35	53	—	—	—	3.50	7.00	—	—	—	10.50	2.90	3.62	9.3	3.8	3426	A	NO	NO
	35+71	35	71	—	—	—	5.50	5.50	—	—	—	11.00	3.04	3.62	9.3	3.8	3426	A	NO	NO
	53+53	53	53	—	—	—	4.93	6.57	—	—	—	11.50	3.18	3.62	9.5	3.8	3500	A	NO	NO
3 units	26+26+26	26	26	26	—	—	3.33	3.33	3.33	—	—	10.00	2.74	3.65	8.7	3.6	3383	A	NO	NO
	26+26+35	26	26	35	—	—	3.30	3.30	4.40	—	—	11.00	3.01	3.65	8.8	3.6	3422	A	NO	NO
	26+26+53	26	26	53	—	—	2.88	2.88	5.75	—	—	11.50	3.17	3.63	9.3	3.5	3720	A	NO	NO
	26+26+71	26	26	71	—	—	2.57	2.57	6.86	—	—	12.00	3.32	3.61	9.5	3.4	3912	A	NO	NO
	26+35+35	26	35	35	—	—	3.14	4.18	4.18	—	—	11.50	3.16	3.64	9.0	3.4	3706	A	NO	NO
	26+35+53	26	35	53	—	—	2.77	3.69	5.54	—	—	12.00	3.31	3.62	9.3	3.5	3720	A	NO	NO
	26+35+71	26	35	71	—	—	2.40	3.20	6.40	—	—	12.00	3.32	3.61	9.6	3.4	3953	A	NO	NO
	26+53+53	26	53	53	—	—	2.40	4.80	4.80	—	—	12.00	3.32	3.61	9.6	3.5	3840	A	NO	NO
	35+35+35	35	35	35	—	—	3.83	3.83	3.83	—	—	11.50	3.16	3.64	9.3	3.5	3720	A	NO	NO
	35+35+53	35	35	53	—	—	3.43	3.43	5.14	—	—	12.00	3.31	3.62	9.5	3.5	3800	A	NO	NO
	35+35+71	35	35	71	—	—	3.00	3.00	6.00	—	—	12.00	3.32	3.61	9.7	3.4	3994	A	NO	NO
	35+53+53	35	53	53	—	—	3.00	4.50	4.50	—	—	12.00	3.32	3.61	9.7	3.4	3994	A	NO	NO
	35+53+71	35	53	71	—	—	2.67	4.00	5.33	—	—	12.00	3.32	3.61	9.9	3.4	4076	A	NO	NO
	53+53+53	53	53	53	—	—	4.00	4.00	4.00	—	—	12.00	3.32	3.61	9.9	3.5	3960	A	NO	NO
4 units	26+26+26+26	26	26	26	26	—	3.00	3.00	3.00	3.00	—	12.00	3.30	3.64	9.3	3.8	3426	A	NO	NO
	26+26+26+35	26	26	26	35	—	2.77	2.77	2.77	3.69	—	12.00	3.31	3.63	9.4	3.7	3557	A	NO	NO
	26+26+26+53	26	26	26	53	—	2.40	2.40	2.40	4.80	—	12.00	3.32	3.61	9.6	3.6	3733	A	NO	NO
	26+26+26+71	26	26	26	71	—	2.17	2.17	2.17	5.79	—	12.30	3.41	3.61	10.0	3.4	4118	A	NO	NO
	26+26+35+35	26	26	35	35	—	2.57	2.57	3.43	3.43	—	12.00	3.31	3.63	9.5	3.5	3800	A	NO	NO
	26+26+35+53	26	26	35	53	—	2.25	2.25	3.00	4.50	—	12.00	3.32	3.61	9.7	3.5	3880	A	NO	NO
	26+26+35+71	26	26	35	71	—	2.05	2.05	2.73	5.47	—	12.30	3.40	3.62	9.9	3.4	4076	A	NO	NO
	26+26+53+53	26	26	53	53	—	2.00	2.00	4.00	4.00	—	12.00	3.31	3.62	9.9	3.5	3960	A	NO	NO
	26+35+35+35	26	35	35	35	—	2.40	3.20	3.20	3.20	—	12.00	3.31	3.63	9.6	3.6	3733	A	NO	NO
	26+35+35+53	26	35	35	53	—	2.12	2.82	2.82	4.24	—	12.00	3.32	3.61	10.0	3.5	4000	A	NO	NO
	26+35+35+71	26	35	35	71	—	1.94	2.59	2.59	5.18	—	12.30	3.40	3.62	11.0	3.4	4529	A	NO	NO
	26+35+53+53	26	35	53	53	—	1.89	2.53	3.79	3.79	—	12.00	3.31	3.62	11.0	3.4	4529	A	NO	NO
	35+35+35+35	35	35	35	35	—	3.00	3.00	3.00	3.00	—	12.00	3.31	3.63	9.7	3.6	3772	A	NO	NO
	35+35+35+53	35	35	35	53	—	2.67	2.67	2.67	4.00	—	12.00	3.32	3.61	9.9	3.5	3960	A	NO	NO
5 units	**26+26+26+26+26**	**26**	**26**	**26**	**26**	**26**	**2.46**	**2.46**	**2.46**	**2.46**	**2.46**	**12.50**	**3.37**	**3.71**	**9.6**	**3.8**	**3537**	**A**	**YES**	**YES**
	26+26+26+26+35	26	26	26	26	35	2.31	2.31	2.31	2.31	3.08	12.50	3.37	3.71	9.8	3.8	3611	A	YES	YES
	26+26+26+26+53	26	26	26	26	53	2.05	2.05	2.05	2.05	4.10	12.50	3.28	3.81	9.9	3.5	3960	A	YES	YES
	26+26+26+35+35	26	26	26	35	35	2.17	2.17	2.17	2.89	2.89	12.50	3.32	3.77	10.0	3.6	3889	A	YES	YES
	26+26+26+35+53	26	26	26	35	53	1.94	1.94	1.94	2.59	3.88	12.50	3.28	3.81	11.0	3.5	4400	A	YES	YES
	26+26+35+35+35	26	26	35	35	35	2.05	2.05	2.73	2.73	2.73	12.50	3.32	3.77	10.1	3.6	3928	A	YES	YES
	26+35+35+35+35	26	35	35	35	35	1.94	2.59	2.59	2.59	2.59	12.50	3.28	3.81	11.0	3.5	4400	A	YES	YES

PROJECT VRF R410A FULL DC INVERTER



EFFICIENCY AND EASE OF INSTALLATION

Thanks to its continued commitment to technological research and its long experience in the heating/cooling systems market in Italy and Europe, Hokkaido has introduced the PROJECT VRF R410A line, a product that is a candidate for a leading role in the VRF systems market.

Efficiency, **reliability** and **applicable 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

HOKKAIDO

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		

XRV MULTI SYSTEM
Outdoor heat recovery units - 3 pipes

XRV PLUS HEAT RECOVERY

8~16HP

8HP	10HP	12HP	14HP	16HP
HCSRU 2524 XRV-1 Plus	HCSRU 2804 XRV-1 Plus	HCSRU 3354 XRV-1 Plus	HCSRU 4004 XRV-1 Plus	HCSRU 4504 XRV-1 Plus

COMBINATIONS				
18HP	20HP	22HP	24HP	26HP
8+10	10+10	10+12	10+14	10+16
HCSRU 2524 XRV-1 Plus HCSRU 2804 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 2804 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 3354 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 4004 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 4504 XRV-1 Plus
28HP	30HP	32HP	34HP	36HP
14+14	14+16	16+16	10+10+14	10+10+16
HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 2804 XRV-1 Plus HCSRU 4004 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 2804 XRV-1 Plus HCSRU 4504 XRV-1 Plus
38HP	40HP	42HP	44HP	46HP
10+12+16	10+14+16	14+14+14	14+14+16	14+16+16
HCSRU 2804 XRV-1 Plus HCSRU 3354 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus
48HP	50HP	52HP	54HP	56HP
16+16+16	8+10+16+16	10+10+16+16	10+12+16+16	10+14+16+16
HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2524 XRV-1 Plus HCSRU 2804 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 2804 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 3354 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus
58HP	60HP	62HP	64HP	
14+14+14+16	14+14+16+16	14+16+16+16	16+16+16+16	
HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	

FLOW DIVIDER

Flow dividers for heat recovery function.
Compact, lightweight design. Up to 24 indoor units on the same divider.

Divider model serie K/P		Dimensions (mm) LxHxD serie K/P	Connectable indoor units serie K/P	
			Total Capacity	Number of indoor units
	HPFD 1-8 XRV Plus	630x605x225	≤28 kW	1~8
	HPFD 1-16 XRV Plus	960x605x225	≤45 kW	1~16
	HPFD 1-24 XRV Plus	960x605x225	≤45 kW	1~24

XRV MULTI SYSTEM
Outdoor heat pump units

XRV PLUS MINI

3.75HP
single phase
HCNU 1054 XRV-1 Plus

5HP	6HP	6.5HP
three-phase	three-phase	three-phase
HCSU 1404 XRV-1 Plus	HCSU 1604 XRV-1 Plus	HCSU 1804 XRV-1 Plus

7HP	8HP	9HP
three-phase	three-phase	three-phase
HCYU 2004 XRV-1 Plus	HCYU 2244 XRV-1 Plus	HCYU 2604 XRV-1 Plus

14HP	16HP
three-phase	three-phase
HCYU 4004 XRV-1 Plus	HCYU 4504 XRV-1 Plus

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

XRV MULTI SYSTEM
Outdoor heat pump units - 2 pipes

XRV SMART MODULAR

8~10HP

8HP	10HP
HCSU 2524 XRV-K	HCSU 2804 XRV-K

COMBINATIONS		
16HP	18HP	20HP
8 + 8	8 + 10	10 + 10
HCSU 2524 XRV-K HCSU 2524 XRV-K	HCSU 2524 XRV-K HCSU 2804 XRV-K	HCSU 2804 XRV-K HCSU 2804 XRV-K

Combinations up to a maximum of 4 outdoor units are possible.

COMPATIBILITY CHART
INDOOR UNITS / OUTDOOR UNITS / CONTROLS

			INDOOR UNITS		
			ONLY	ONLY	MIX
			XRV-K		XRV-K
				XRV-P	XRV-P
OUTDOOR UNITS	OU 2 pipes	XRV-1 Plus	OK	OK	NO
		XRV-K	OK	OK	NO
		XRV-P	OK	OK	NO
	OU 3 pipes	XRV-1 Plus	OK	OK	NO
CONTROLS	Remote control	DHIR-5-6-XRV-K-P	NO	OK	
	Wired remote control	DTW 3 IHXR TOUCH	OK	NO	
		DTW IHXR SIMPLY	OK	NO	
		DTWS 4 IHXR COMPACT	OK	NO	
		DHW-5-6-XRV-K-P	NO	OK	
CENTRALISED CONTROLS	Manual	DTC IHXR TOUCH	OK	OK	
		DTCWT IHXR	OK	OK	
	WiFi	XRV MOBILE BMS	OK	OK	

XRV MULTI SYSTEM

XRV PREMIUM MODULAR

XRV SMART MODULAR

XRV PLUS HEAT RECOVERY

XRV PLUS MINI

FULL DC INVERTER TECHNOLOGY FOR THE EXTERNAL UNITS OF ALL RANGES

Full DC Inverter technology has always characterised Hokkaido's proposal in 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, reducing operation costs as well as CO2 emissions.

HERE'S WHAT MAKES THE HOKKAIDO PROPOSAL "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. In this way, energy savings and high comfort are guaranteed in a wide outdoor temperature operation 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 on/off cycles

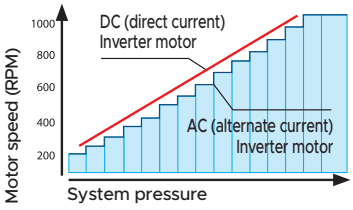
The result is an efficient system that is highly reliable and durable.

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 creating a low noise level.

DC Inverter compressor

DC Inverter fan motor



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

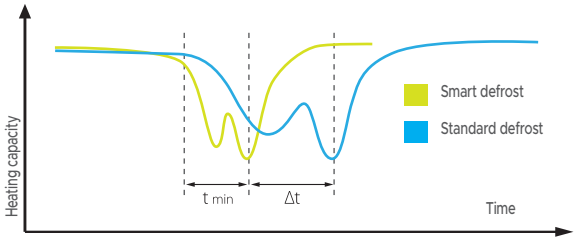
The range is characterised by 8 basic modules: 8, 10, 12, 14, 16, 18, 20 and 22HP. Wide range of available power: from 25.2 to 246.0 kW.

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

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

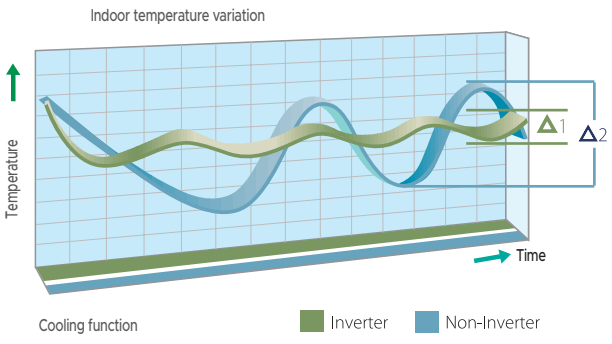
Smart defrost

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

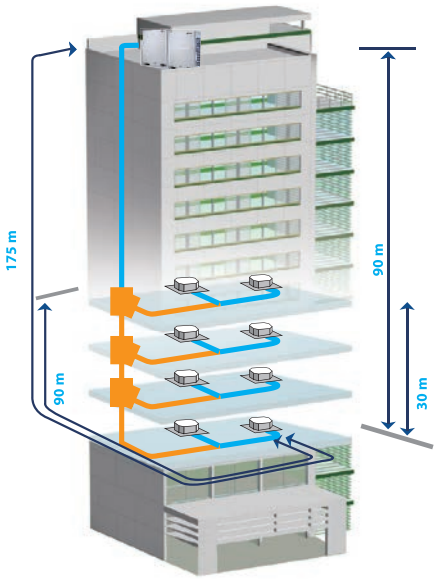


Fast cooling and heating

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



Splitting lengths and height differences



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 = 90 m

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

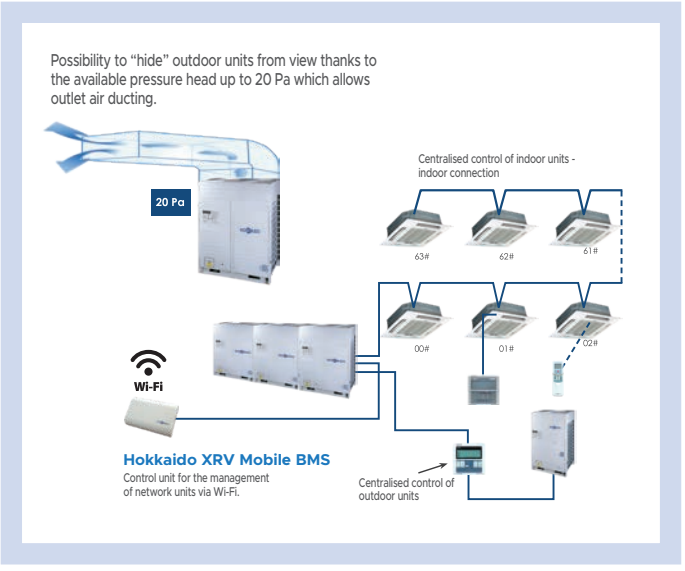
Maximum height difference between O.U. (down low) and I.U.= 110 m

Maximum height difference between I.U. = 30 m

Installation and operation

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

Network wiring diagram



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		**HP**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
Rated cooling capacity (1)		kW	25.2	28.0	33.5	40.0	45.0	50.0	56.0
Rated heating capacity (2)		kW	27.0	31.5	37.5	40.0	45.0	50.0	56.0
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
Electric consumption in cooling mode (rated)		kW	6.25	7.49	8.91	11.66	13.64	14.71	16.47
Electric consumption in heating mode (rated)		kW	5.30	6.89	8.91	9.83	11.69	12.50	14.00
EER performance coefficient in cooling mode		W/W	4.03	3.74	3.76	3.43	3.30	3.40	3.40
COP performance coefficient in heating mode		W/W	5.09	4.57	4.21	4.07	3.85	4.00	4.00
Refrigerant circuit/features									
Refrigerant		type (GWP)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
		Kg (tons CO2)	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
Refrigerant connections (3)	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	Ø mm (inch)	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	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	O.U. up-down	m	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110
Product specifications									
Dimensions (4)	LxHxD	mm	990x1635x790	990x1635x790	990x1635x790	1340x1635x790	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	66
Sound power level	max	dB(A)	79	83	82	88	88	88	88
Fan air flow	max	m3/h	12000	12000	12000	14000	14000	14000	16000
Operating temp. range in cooling mode		°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
Operating temp. range in heating mode		°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
Connectable indoor units		**no.**	**13**	**16**	**20**	**23**	**26**	**29**	**33**
Capacity of connected indoor unit		%	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 6155 XRV-P	HCSU 3355 XRV-P HCSU 6155 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 cooling capacity (1)		kW	123.0	128.5	134.5	139.5	145.5	151.0	156.5
Rated heating capacity (2)		kW	123.0	136.5	138.0	143.0	149.0	154.5	160.5
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
Electric consumption in cooling mode (rated)		kW	39.68	37.66	40.97	42.04	43.8	47.17	48.59
Electric consumption in heating mode (rated)		kW	32.36	34.00	34.76	35.57	37.07	39.25	41.27
EER performance coefficient in cooling mode		W/W	3.10	3.41	3.28	3.32	3.32	3.20	3.22
COP performance coefficient in heating mode		W/W	3.80	4.01	3.97	4.02	4.02	3.94	3.89
Refrigerant circuit/features									
Refrigerant		type (GWP)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
		Kg (tons CO2)	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
Refrigerant connections (3)	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	O.U. up-down	m	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110
Product specifications									
Dimensions (4)	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	44000
Operating temp. range in cooling mode		°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	-5°C / 43°C
Operating temp. range in heating mode		°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	-20°C / 24°C
Connectable indoor units		**no.**	**64**	**64**	**64**	**64**	**64**	**64**	**64**
Capacity of connected indoor unit		%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

(1) Cooling capacity tested in accordance with ISO 5151 Standards; outdoor temperature 35° C DB, 24° C WB and indoor temperature 27° C DB, 19° WB.
(2) Heating capacity tested in accordance with ISO 5151 Standards; outdoor temperature 7° C DB, 6° C WB and indoor temperature 20° C DB, 15° C WB.
(3) 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.
(4) Space between the paired units = 100 mm.

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)**
61.5	67.0	73.0	78.0	84.0	89.5	95.0	100.0	106.5	111.5	117.5
61.5	75.0	76.5	81.5	87.5	93.0	99.0	100.0	106.5	111.5	117.5
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
19.84	17.82	21.13	22.2	23.96	27.33	28.75	29.42	33.48	34.55	36.31
16.18	17.82	18.58	19.39	20.89	23.07	25.09	25.00	27.87	28.68	30.18
3.10	3.76	3.45	3.51	3.51	3.27	3.30	3.40	3.18	3.23	3.24
3.80	4.21	4.12	4.20	4.19	4.03	3.95	4.00	3.82	3.89	3.89
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 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	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
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)**
161.5	168.0	173.0	179.0	184.5	190.0	196.0	201.0	207.0	212.5	218.0
161.5	168.0	173.0	179.0	184.5	198.0	199.5	204.5	210.5	216.5	222.0
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
49.26	53.32	54.39	56.15	59.52	57.50	60.81	61.88	63.64	67.01	68.43
41.18	44.05	44.86	46.36	48.54	50.18	50.94	51.75	53.25	55.43	57.45
3.28	3.15	3.18	3.19	3.10	3.30	3.22	3.25	3.25	3.17	3.19
3.92	3.81	3.86	3.86	3.80	3.95	3.92	3.95	3.95	3.90	3.86
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; outdoor temperature 35° C DB, 24° C WB and indoor temperature 27° C DB, 19° WB.
(2) Heating capacity tested in accordance with ISO 5151 Standards; outdoor temperature 7° C DB, 6° C WB and indoor temperature 20° C DB, 15° C WB.
(3) 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.
(4) Space between the paired units = 100 mm.

XRV PREMIUM MODULAR
Heat pump - 2 pipes

Model / Combination			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	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
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 cooling capacity (1)		kW	223.0	229.5	234.5	240.5	246.0
Rated heating capacity (2)		kW	223.0	229.5	234.5	240.5	246.0
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
Electric consumption in cooling mode (rated)		kW	69.10	73.16	74.23	75.99	79.36
Electric consumption in heating mode (rated)		kW	57.36	60.23	61.04	62.54	64.72
EER performance coefficient in cooling mode		W/W	3.23	3.14	3.16	3.16	3.10
COP performance coefficient in heating mode		W/W	3.89	3.81	3.84	3.85	3.80
Refrigerant circuit/features							
Refrigerant		type (GWP)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
		Kg (tons CO2)	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
Refrigerant connections (3)	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	O.U. up-down	m	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110
Product specifications							
Dimensions (4)	LxHxD	mm	5660x1635x790	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	72
Sound power level	max	dB(A)	94	94	94	94	94
Fan air flow	max	m³/h	64000	62000	64000	64000	64000
Operating temp. range in cooling mode		°C / DB	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C
Operating temp. range in heating mode		°C / WB	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C
Connectable indoor units		**no.**	**64**	**64**	**64**	**64**	**64**
Capacity of connected indoor unit		%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

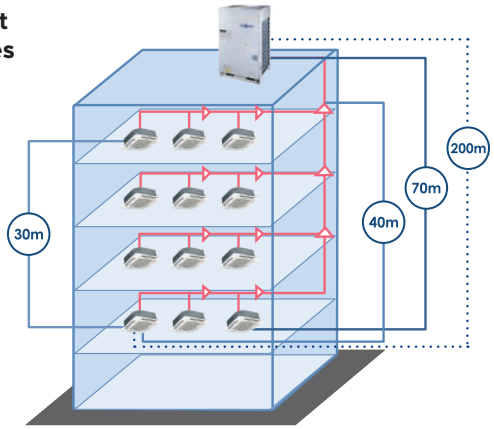
(1) Cooling capacity tested in accordance with ISO 5151 Standards; outdoor temperature 35° C DB, 24° C WB and indoor temperature 27° C DB, 19° WB.
(2) Heating capacity tested in accordance with ISO 5151 Standards; outdoor temperature 7° C DB, 6° C WB and indoor temperature 20° C DB, 15° C WB.
(3) When 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.
(4) Space between the paired units = 100 mm.

XRV SMART MODULAR
Heat pump - 2 pipes

FULL DC INVERTER

HCSU 2524 XRV-K
HCSU 2804 XRV-K

Splitting lengths and height differences



8 and 10HP units are equipped with a DC Inverter compressor.

All units are equipped with a DC Inverter fan motor:

- wider fan speed adjustment range
- reduced noise level

Silent operation, auto-addressing of indoor units.

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

Maximum distance from the first branch pipe to the farthest = 40 m (90 m*)

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

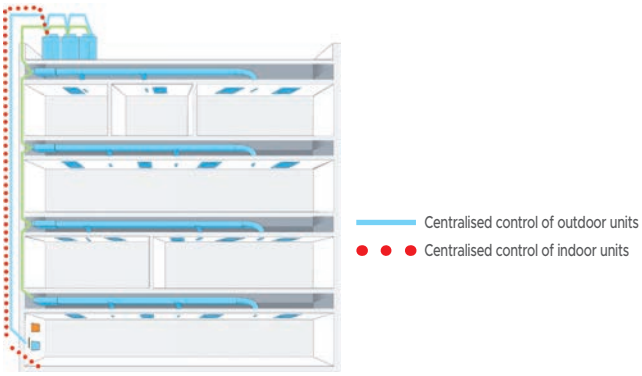
Maximum height difference between O.U. (down low) and I.U. = 110 m

Maximum height difference between I.U. = 30 m

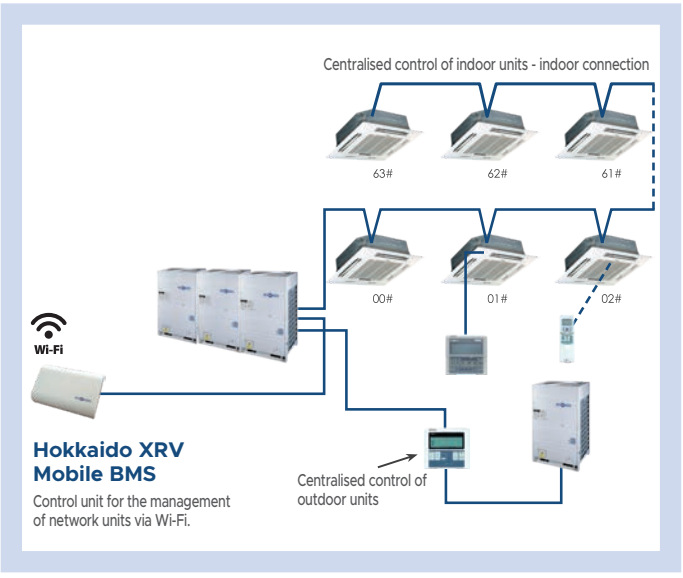
Maximum length of the pipes = 1000 m

* Upon approval of the technical department.

Centralized control wiring diagram



Network wiring diagram



Outgoing air

Possibility to “hide” outdoor units from view thanks to the available pressure head, up to 20 Pa, which allows outlet air ducting.

XRV SMART MODULAR
Heat pump - 2 pipes

Model / Combination			HCSU 2524 XRV-K	HCSU 2804 XRV-K	HCSU 2524 XRV-K HCSU 2524 XRV-K	HCSU 2524 XRV-K HCSU 2804 XRV-K	HCSU 2804 XRV-K HCSU 2804 XRV-K
Power		**HP**	**8**	**10**	**16**	**18**	**20**
Rated cooling capacity (1)		kW	25.2	28.0	50.4	53.2	56.0
Rated heating capacity (2)		kW	27.0	31.5	54.0	58.5	63.0
Electrical data							
Power supply		Ph-V-Hz	3-380~415V-50Hz				
Electric consumption in cooling mode (rated)		kW	5.87	7.19	11.74	13.06	14.39
Electric consumption in heating mode (rated)		kW	6.15	7.60	12.30	13.75	15.21
EER performance coefficient in cooling mode		W/W	4.29	3.89	4.29	4.07	3.89
COP performance coefficient in heating mode		W/W	4.39	4.14	4.39	4.25	4.14
Refrigerant circuit/features							
Refrigerant		type (GWP)	R410A (2088)				
		Kg (tons CO2)	9 (18.792)	9 (18.792)	18 (37.584)	18 (37.584)	18 (37.584)
DC Inverter compressor		no. / type	1/Scroll DC Inverter HITACHI		2/Scroll DC Inverter HITACHI		
Refrigerant connections (3)	Liquid	Ø mm (inch)	9.53 (3/8")	9.53 (3/8")	12.7 (1/2")	15.9 (5/8")	15.9 (5/8")
	Gas	Ø mm (inch)	22.2 (7/8")	22.2 (7/8")	28.6 (9/8")	28.6 (9/8")	28.6 (9/8")
	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")
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	O.U. up-down	m	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110
Product specifications							
Dimensions (4)	LxHxD	mm	960x1615x765	960x1615x765	2020x1615x765	2020x1615x765	2020x1615x765
Net weight		Kg	200	200	400	400	400
Sound pressure level at 1 m	max	dB(A)	57	57	62	62	62
Sound pressure level at 2.5 m	max	dB(A)	49	49	54	54	54
Fan air flow	max	m³/h	11500	11500	23000	23000	23000
Operating temp. range in cooling mode		°C / DB	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43
Operating temp. range in heating mode		°C / WB	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24
Connectable indoor units		**no.**	**13**	**16**	**26**	**29**	**33**
Capacity of connected indoor unit		%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

(1) Cooling capacity tested in accordance with ISO 5151 Standards; outdoor temperature 35° C DB, 24° C WB and indoor temperature 27° C DB, 19° WB.
(2) Heating capacity tested in accordance with ISO 5151 Standards; outdoor temperature 7° C DB, 6° C WB and indoor temperature 20° C DB, 15° C WB.
(3) 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.
(4) Space between the paired units = 100 mm.

XRV PLUS HEAT RECOVERY
Heat recovery - 3 pipes

FULL DC INVERTER
HCSRU 2524 XRV-1 Plus
HCSRU 2804 XRV-1 Plus
HCSRU 3354 XRV-1 Plus
HCSRU 4004 XRV-1 Plus
HCSRU 4504 XRV-1 Plus

The range is characterised by 5 basic modules: 8, 10, 12, 14 e 16HP.

All outdoor unit compressors are Full DC Inverter type for a high level of efficiency.

Possibility of connecting up to 24 indoor units with only one flow divider.

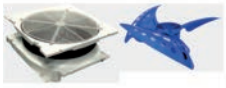
The indoor units can operate in different modes even if they are connected to the same flow divider.

Wide range in operating conditions:from -20° C WB in heating mode up to +43° C DB in cooling mode with no stop.

High splitting distance: max distance between I.U. up to 200 m, total length up to 1000 m.

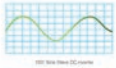
High energy efficiency

Fan and grille.



Integrated electric circuit.

Control of DC Inverter wave at 180°(IPM).

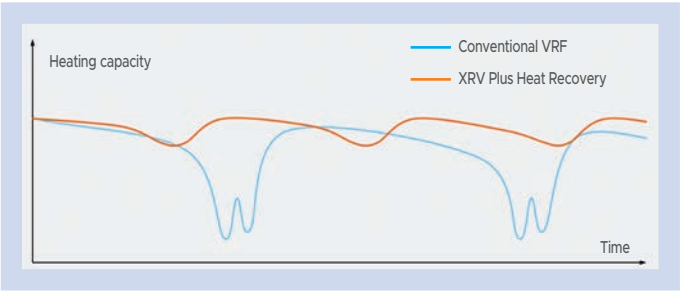


DC Inverter fan, low noise level, low consumption, high efficiency.

Highly efficient heat exchanger.

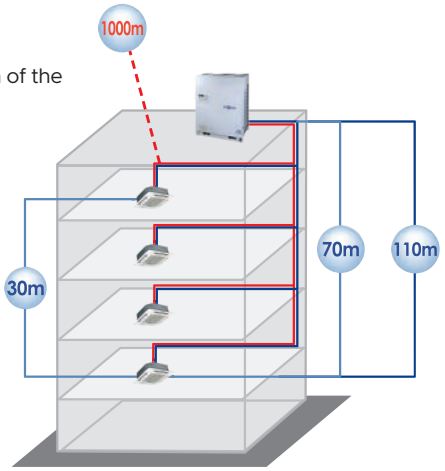
High pressure DC Inverter Scroll compressor contributes to very high efficiency.

Curve of heating capacity during defrost



Splitting lengths and height differences

Maximum length of the pipes = 1000 m



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

XRV PLUS HEAT RECOVERY
Heat recovery - 3 pipes

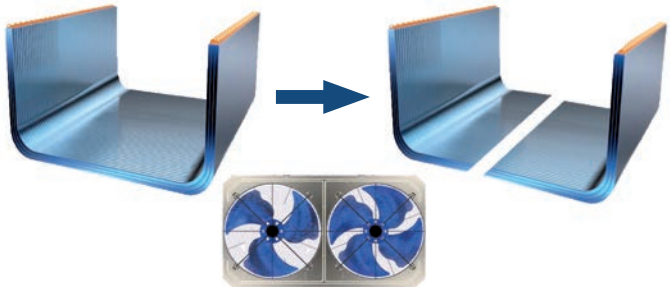
Fan and exchanger

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 over each heat exchanger structure individually.

2-pipe system

3-pipe system



Pressure head up to 20 Pa

The available pressure head up to 20 Pa allows users to "hide" the outdoor units from view and to duct the outlet air.

Branch pipe kit

Branch pipe downstreams of the first indoor unit	
Code	A - Capacity of the connectible indoor units (kW)
DIS-22-1RB	A<16.6
DIS-180-1RB	16.6≤A<33.0
DIS-371-1RB	33.0≤A<66.0
DIS-540-1RH Plus	66.0≤A<92.0
DIS-1344-1RH Plus	92.0≤A<135.0

Branch pipe kit for outdoor connection	
Code	Outdoor units
DOS 2-1RH Plus	2 Outdoor unit KITS
DOS 3-1RH Plus	3 Outdoor unit KITS
DOS 4-1RH Plus	4 Outdoor unit KITS
OH-BAL-KT*	T-shaped fitting for oil parallel pipe

* Included in DOS 3-1H Plus & DOS 4-1H Plus KITS.

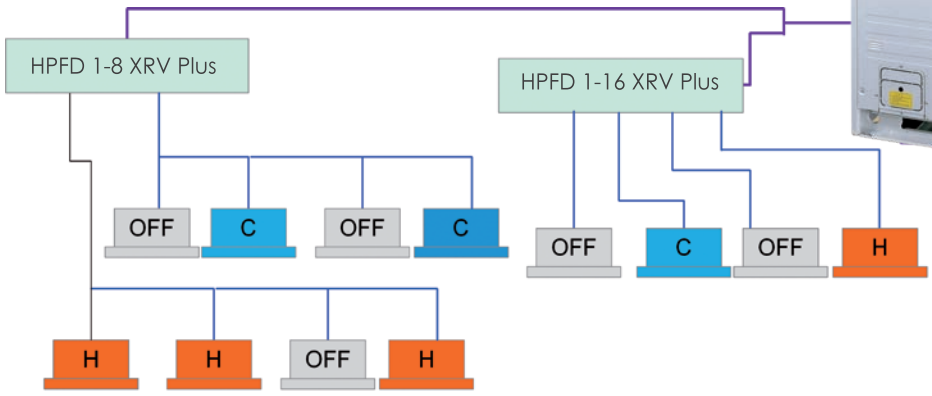
Indoor unit connection system

Indoor units are connected to flow dividers.

Up to 4 indoor units (max 16 kW) can be connected to each output.

The units connected to each output can operate in different modes from those connected to another output.

All indoor units connected to one output can only operate in the same mode.



XRV PLUS HEAT RECOVERY
Heat recovery - 3 pipes

Model / Combination			HCSRU 2524 XRV-1 Plus	HCSRU 2804 XRV-1 Plus	HCSRU 3354 XRV-1 Plus	HCSRU 4004 XRV-1 Plus	HCSRU 4504 XRV-1 Plus
Power		**HP**	**8**	**10**	**12**	**14**	**16**
Rated cooling capacity (1)		kW	25.2	28.0	33.5	40.0	45.0
Rated heating capacity (2)		kW	27.0	31.5	37.5	40.0	45.0
Electrical data							
Electric consumption in cooling mode (rated)		Ph-V-Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz
Electric consumption in heating mode (rated)		kW	6.67	7.24	9.28	11.49	14.20
EER performance coefficient in cooling mode		kW	5.28	6.54	9.24	9.76	11.90
COP performance coefficient in heating mode		W/W	3.78	3.87	3.61	3.48	3.17
COP coeff. di prestazione in riscaldamento		W/W	5.11	4.82	4.06	4.10	3.78
Refrigerant circuit/features							
Refrigerant		type (GWP)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
		Kg (tons CO2)	10 (20.880)	10 (20.880)	10 (20.880)	13 (27.144)	13 (27.144)
DC Inverter compressor		no. / type	1 / Scroll DC Inverter HITACHI			2 / Scroll DC Inverter HITACHI	
Refrigerant connections (3)	Liquid	Ø mm (inch)	9.53 (3/8)	12.7 (1/2)		15.9 (5/8)	
	Low pressure gas	Ø mm (inch)	22.2 (7/8)		25.4 (1)	28.6 (9/8)	
	High pressure gas	Ø mm (inch)	19.1 (3/4)			22.2 (7/8)	
	H.p. parallel gas	Ø mm (inch)	19.1 (3/4)			19.1 (3/4)	
	Parallel oil	Ø mm (inch)	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	O.U. up-down	m	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110
Product specifications							
Dimensions (4)	LxHxD	mm	1250x1615x765			1250x1615x765	
Net weight		Kg	255			303	
Sound pressure level at 1 m	min-max	dB(A)	55/57		56/58	58/60	
Sound power level	max	dB(A)	79	83	84	88	
Fan air flow	min-max	m³/h	10675 / 12000			12875 / 15000	
Operating temp. range in cooling mode		°C / DB	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43
Operating temp. range in heating mode		°C / WB	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24
Connectable indoor units		**no.**	**13**	**16**	**20**	**23**	**26**
Capacity of connected indoor unit		%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

Model / Combination			HCSRU 2804 XRV-1 Plus HCSRU 2804 XRV-1 Plus HCSRU 4004 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 2804 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 3354 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus
Power		**HP**	**34 (10+10+14)**	**36 (10+10+16)**	**38 (10+12+16)**	**40 (10+14+16)**	**42 (14+14+14)**	**44 (14+14+16)**
Rated cooling capacity (1)		kW	96.0	101.0	106.5	113.0	120.0	125.0
Rated heating capacity (2)		kW	103.0	108.0	114.0	116.5	120.0	125.0
Electrical data								
Electric consumption in cooling mode (rated)		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
Electric consumption in heating mode (rated)		kW	25.97	28.68	30.72	32.93	34.47	37.18
EER performance coefficient in cooling mode		kW	22.84	24.98	27.68	28.2	29.28	31.42
COP performance coefficient in heating mode		W/W	3.70	3.52	3.47	3.43	3.48	3.36
COP coeff. di prestazione in riscaldamento		W/W	4.51	4.32	4.12	4.13	4.10	3.98
Refrigerant circuit/features								
Refrigerant		type (GWP)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
		Kg (tons CO2)	33 (68.904)	33 (68.904)	33 (68.904)	36 (75.168)	39 (81.432)	39 (81.432)
DC Inverter compressor		no. / type	4 / Scroll DC Inverter HITACHI			5 / Scroll DC Inv. HITACHI	6 / Scroll DC Inverter HITACHI	
Refrigerant connections (3)	Liquid	Ø mm (inch)	19.1 (3/4)			19.1 (3/4)		
	Low pressure gas	Ø mm (inch)	41.3 (1 5/8)			41.3 (1 5/8)		
	High pressure gas	Ø mm (inch)	34.9 (1 3/8)			34.9 (1 3/8)		
	H.p. parallel gas	Ø mm (inch)	19.1 (3/4)			19.1 (3/4)		
	Parallel oil	Ø mm (inch)	6.35 (1/4)			6.35 (1/4)		
Max pipe length		m	1000	1000	1000	1000	1000	1000
Max height difference between indoor units		m	30	30	30	30	30	30
Max height difference between outdoor and indoor units	O.U. up-down	m	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110
Product specifications								
Dimensions (4)	LxHxD	mm	3950x1615x765			3950x1615x765	3950x1615x765	
Net weight		Kg	813			861	909	
Sound pressure level at 1 m	min-max	dB(A)	55/65			55/66	56/67	
Sound power level	max	dB(A)	90			90	90	
Fan air flow	min-max	m³/h	10675 / 39000		10675 / 40000	10675 / 42000	12875 / 45000	
Operating temp. range in cooling mode		°C / DB	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43
Operating temp. range in heating mode		°C / WB	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24
Connectable indoor units		**no.**	**56**	**59**	**63**	**64**	**64**	**64**
Capacity of connected indoor unit		%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

(1) Cooling capacity tested in accordance with ISO 5151 Standards; outdoor temperature 35° C DB, 24° C WB and indoor temperature 27° C DB, 19° WB.
(2) Heating capacity tested in accordance with ISO 5151 Standards; outdoor temperature 7° C DB, 6° C WB and indoor temperature 20° C DB, 15° C WB.
(3) 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.
(4) Space between the paired units = 100 mm.

XRV PLUS HEAT RECOVERY

Heat recovery - 3 pipes

HCSRU 2524 XRV-1 Plus HCSRU 2804 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 2804 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 3354 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 4004 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus
18 (8+10)	20 (10+10)	22 (10+12)	24 (10+14)	26 (10+16)	28 (14+14)	30 (14+16)	32 (16+16)
53.2	56.0	61.5	68.0	73.0	80.0	85.0	90.0
58.5	63.0	69.0	71.5	76.5	80.0	85.0	90.0
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
13.91	14.48	16.52	18.73	21.44	22.98	25.69	28.40
11.82	13.08	15.78	16.3	18.44	19.52	21.66	23.8
3.82	3.87	3.72	3.63	3.40	3.48	3.31	3.17
4.95	4.82	4.37	4.39	4.15	4.10	3.92	3.78
R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
20 (41.760)	20 (41.760)	20 (41.760)	23 (48.024)	23 (48.024)	26 (54.288)	26 (54.288)	26 (54.288)
2 / Scroll DC Inverter HITACHI			3 / Scroll DC Inverter HITACHI			4 / Scroll DC Inverter HITACHI	
15.9 (5/8)			15.9 (5/8)	19.1 (3/4)		19.1 (3/4)	
31.8 (1 1/4)			34.9 (1 3/8)			34.9 (1 3/8)	
28.6 (9/8)			28.6 (9/8)			28.6 (9/8)	
19.1 (3/4)			19.1 (3/4)			19.1 (3/4)	
6.35 (1/4)			6.35 (1/4)			6.35 (1/4)	
1000	1000	1000	1000	1000	1000	1000	1000
30	30	30	30	30	30	30	30
70 - 110	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110
2600x1615x765			2600x1615x765		2600x1615x765		
510			558		606		
55/61		55/62	55/63		56/64	58/64	
88		88	88		89	89	
10675 / 24000		10675 / 25000	10675 / 27000		12875 / 30000	12875 / 30000	
-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43
-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24
29	33	36	39	43	46	50	53
50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2524 XRV-1 Plus HCSRU 2804 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 2804 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 3354 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus
46 (14+16+16)	48 (16+16+16)	50 (8+10+16+16)	52 (10+10+16+16)	54 (10+12+16+16)	56 (10+14+16+16)	58 (14+14+14+16)	60 (14+14+16+16)	62 (14+16+16+16)	64 (16+16+16+16)
130.0	135.0	143.2	146.0	151.5	158.0	165.0	170.0	175.0	180.0
130.0	135.0	148.5	153.0	159.0	161.5	165.0	170.0	175.0	180.0
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
39.89	42.6	42.31	42.88	44.92	47.13	48.67	51.38	54.09	56.8
33.56	35.7	35.62	36.88	39.58	40.1	41.18	43.32	45.46	47.6
3.26	3.17	3.38	3.40	3.37	3.35	3.39	3.31	3.24	3.17
3.87	3.78	4.17	4.15	4.02	4.03	4.01	3.92	3.85	3.78
R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
39 (81.432)	39 (81.432)	46 (96.048)	46 (96.048)	46 (96.048)	49 (102.312)	52 (108.576)	52 (108.576)	52 (108.576)	52 (108.576)
6 / Scroll DC Inverter HITACHI		6 / Scroll DC Inverter HITACHI			7 / Scroll DC Inv. HITACI	8 / Scroll DC Inv. HITACI		8 / Scroll DC Inv. HITACI	
19.1 (3/4)		22.2 (7/8)			22.2 (7/8)			22.2 (7/8)	
41.3 (1 5/8)		44.5(1 3/4)			44.5(1 3/4)			44.5(1 3/4)	
34.9 (1 3/8)		38.1 (1 1/2)			38.1 (1 1/2)			38.1 (1 1/2)	
19.1 (3/4)		19.1 (3/4)			19.1 (3/4)			19.1 (3/4)	
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
30	30	30	30	30	30	30	30	30	30
70 - 110	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110
3950x1615x765		5300x1615x765			5300x1615x765	5300x1615x765		5300x1615x765	
909		1116			1164	1212		1212	
		56/68		56/68		55/69			
		91		91		91			
		10675 / 54000		10675 / 55000	10675 / 57000	12875 / 60000			
-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43
-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24
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

(1) Cooling capacity tested in accordance with ISO 5151 Standards; outdoor temperature 35° C DB, 24° C WB and indoor temperature 27° C DB, 19° WB.
(2) Heating capacity tested in accordance with ISO 5151 Standards; outdoor temperature 7° C DB, 6° C WB and indoor temperature 20° C DB, 15° C WB.
(3) 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.
(4) Space between the paired units = 100 mm.

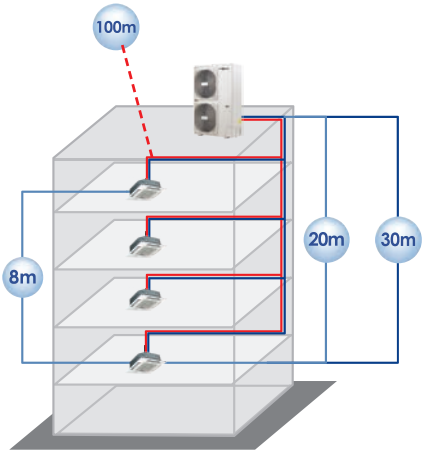
XRV PLUS MINI
Heat pump

FULL DC INVERTER
HCNU 1054 XRV-1 Plus

FULL DC INVERTER
HCSU 1404 XRV-1 Plus
HCSU 1604 XRV-1 Plus
HCSU 1804 XRV-1 Plus

Splitting lengths and height differences

Maximum length of the pipes = 100 m



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

Slim, flexible design.

DC Inverter motor fan:

- wider fan speed adjustment range
- reduced noise level

Optimal design of the fan and fan-shaped louvre, that ensure low noise level at high air flow.

Broad operating range

- cooling -15° C ~ +43° C;
- heating -15° C ~ +27° C;

Auto-addressing of indoor units.

Maximum distance between O.U. and the farthest I.U. = 70 m
(50 m for HCNU 1054 XRV-1 Plus)
Maximum distance from the first branch pipe to the farthest = 20 m
Maximum height difference between O.U. (up high) and I.U. = 30 m
Maximum height difference between O.U. (down low) and I.U. = 20 m
Maximum height difference between I.U. = 8 m
Maximum length of the pipes = 100 m

Model			HCNU 1054 XRV-1 Plus	HCSU 1404 XRV-1 Plus	HCSU 1604 XRV-1 Plus	HCSU 1804 XRV-1 Plus
Power		**HP**	**3.75**	**5**	**6**	**6.5**
Rated cooling capacity (1)		kW	9	14	15.5	17.5
Rated heating capacity (2)		kW	9	15.4	17	19
Electrical data						
Power supply		Ph-V-Hz	1-220~240V-50Hz	3-380~415V-50Hz		
Electric consumption in cooling mode (rated)		kW / A	2.30 / 10.4	3.95 / 9.3	4.52 / 10.7	5.30 / 12.5
Electric consumption in heating mode (rated)		kW / A	2.27 / 10.3	4.15 / 9.8	4.77 / 11.3	5.00 / 11.8
EER performance coefficient in cooling mode		W/W	3.91	3.54	3.43	3.3
COP performance coefficient in heating mode		W/W	3.97	3.71	3.56	3.8
Refrigerant circuit/features						
Refrigerant		type (GWP)	R410A (2088)			
		Kg (tons CO2)	2.95 (6.160)	3.9 (8.143)		4.5 (9.396)
DC Inverter compressor		no. / type	Rotary DC inverter MITSUBISHI			
Refrigerant connections	Liquid	Ø mm (inch)	9.53 (3/8")		9.53 (3/8")	
	Gas	Ø mm (inch)	15.9 (5/8")		19.1 (3/4")	
Max pipe length		m	100			
Max height difference between indoor units		m	8			
Max height difference between outdoor and indoor units	O.U. up-down	m	30 - 20			
Product specifications						
Dimensions	LxHxD	mm	990(+85)x966x354	900x1327x348		
Net weight		Kg	75.5	95	102	107
Sound pressure level at 1 m	max	dB(A)	54	57		59
Sound power level	max	dB(A)	68	73	73	74
Fan air flow	max	m³/h	5500	6000		6800
Operating temp. range in cooling mode		°C / DB	-15 / 43			
Operating temp. range in heating mode		°C / WB	-15 / 27			
Connectable indoor units		**no.**	**5**	**6**	**7**	**9**
Capacity of connected indoor unit		%	45 - 130			

(1) Cooling capacity tested in accordance with ISO 5151 Standards; outdoor temperature 35° C DB, 24° C WB and indoor temperature 27° C DB, 19° C WB.
(2) Heating capacity tested in accordance with ISO 5151 Standards; outdoor temperature 7° C DB, 6° C WB and indoor temperature 20° C DB, 15° C WB.

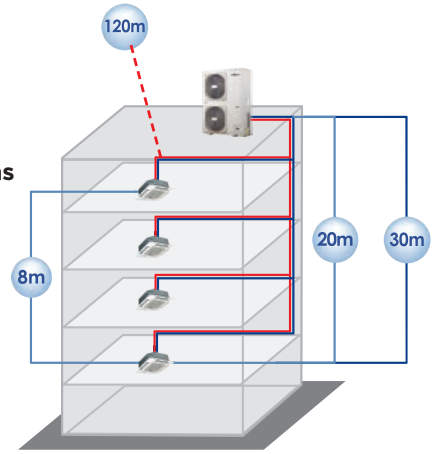
XRV PLUS MINI
Heat pump

FULL DC INVERTER

HCYU 2004 XRV-1 Plus
HCYU 2244 XRV-1 Plus
HCYU 2604 XRV-1 Plus

Splitting lengths and height differences

Maximum length of the pipes = 120 m



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

DC Inverter motor fan:

- wider fan speed adjustment range
- reduced noise level

Up to 12 indoor units connected to one compact outdoor unit.

Auto-addressing of indoor units.

Self-diagnosis function for main system problems.

Maximum distance between O.U. and the farthest I.U. = 70 m

Maximum distance from the first branch pipe to the farthest = 20 m

Maximum height difference between O.U. (up high) and I.U. = 30 m

Maximum height difference between O.U. (down low) and I.U. = 20 m

Maximum height difference between I.U. = 8 m

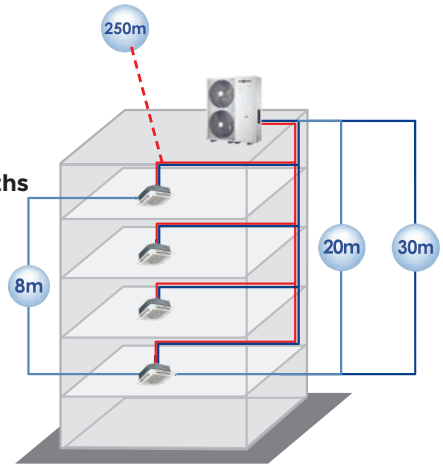
Maximum length of the pipes = 120 m

Model			HCYU 2004 XRV-1 Plus	HCYU 2244 XRV-1 Plus	HCYU 2604 XRV-1 Plus
Power		**HP**	**7**	**8**	**9**
Rated cooling capacity (1)		kW	20.0	22.4	26.0
Rated heating capacity (2)		kW	22.0	24.5	28.5
Electrical data					
Power supply		Ph-V-Hz	3~380~415V~50Hz		
Electric consumption in cooling mode (rated)		kW / A	6.10 / 14.4	6.80 / 16.1	7.60 / 18.0
Electric consumption in heating mode (rated)		kW / A	6.10 / 14.4	5.90 / 14.0	6.80 / 16.1
EER performance coefficient in cooling mode		W/W	3.28	3.29	3.42
COP performance coefficient in heating mode		W/W	3.61	4.15	4.19
Refrigerant circuit/features					
Refrigerant		type (GWP)	R410A (2088)		
		Kg (tons CO2)	4.8 (10.022)	6.2 (12.946)	
DC Inverter compressor		no. / type	Rotary DC inverter MITSUBISHI		
Refrigerant connections	Liquid	Ø mm (inch)	9.52 (3/8)		
	Gas	Ø mm (inch)	19.1 (3/4)		22.2 (7/8)
Max pipe length		m	120		
Max height difference between indoor units		m	8		
Max height difference between outdoor and indoor units	O.U. up-down	m	30 - 20		
Product specifications					
Dimensions	LxHxD	mm	1120x1558x400		
Net weight		Kg	137	146.5	147
Sound pressure level at 1 m	max	dB(A)	55/59		56/60
Sound power level	max	dB(A)	76		77
Fan air flow	max	m3/h	10999	10494	10494
Operating temp. range in cooling mode		°C / DB	-15 / 46		
Operating temp. range in heating mode		°C / WB	-15 / 24		
Connectable indoor units		**no.**	**10**	**11**	**12**
Capacity of connected indoor unit		%	50 - 130		

(1) Cooling capacity tested in accordance with ISO 5151 Standards; outdoor temperature 35° C DB, 24° C WB and indoor temperature 27° C DB, 19° C WB.
(2) Heating capacity tested in accordance with ISO 5151 Standards; outdoor temperature 7° C DB, 6° C WB and indoor temperature 20° C DB, 15° C WB.

XRV PLUS MINI
Heat pump

FULL DC INVERTER
HCYU 4004 XRV-1 Plus
HCYU 4504 XRV-1 Plus



Splitting lengths and height differences

Maximum length of the pipes = 250 m

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

DC Inverter motor fan:

- wider fan speed adjustment range
- reduced noise level

Up to 15 indoor units connected to one compact outdoor unit.

Auto-addressing of indoor units.

Self-diagnosis function for main system problems.

Maximum distance between O.U. and the farthest I.U. = 120 m

Maximum distance from the first branch pipe to the farthest = 40 m

Maximum height difference between O.U. (up high) and I.U. = 30 m

Maximum height difference between O.U. (down low) and I.U. = 20 m

Maximum height difference between I.U. = 8 m

Maximum length of the pipes = 250 m

Model			HCYU 4004 XRV-1 Plus	HCYU 4504 XRV-1 Plus
Power		**HP**	**14**	**16**
Rated cooling capacity (1)		kW	40.0	45.0
Rated heating capacity (2)		kW	45.0	50.0
Electrical data				
Power supply		Ph-V-Hz	3~380~415V~50Hz	
Electric consumption in cooling mode (rated)		kW / A	11.9 / 12x2	13.6 / 15.4x2
Electric consumption in heating mode (rated)		kW / A	11.1 / 12x2	12.7 / 15.4x2
EER performance coefficient in cooling mode		W/W	3.35	3.32
COP performance coefficient in heating mode		W/W	4.05	3.93
Refrigerant circuit/features				
Refrigerant		type (GWP)	R410A (2088)	
		Kg (tons CO2)	9 (18.792)	12 (25.056)
DC Inverter compressor		no. / type	2/ Rotary DC inverter MITSUBISHI	
Refrigerant connections	Liquid	Ø mm (inch)	12.7 (1/2)	
	Gas	Ø mm (inch)	22.2 (7/8)	25.4 (1)
Max pipe length		m	250	
Max height difference between indoor units		m	8	
Max height difference between outdoor and indoor units	O.U. up-down	m	30 - 20	
Product specifications				
Dimensions	LxHxD	mm	1360x1650x540	1460x1650x540
Net weight		Kg	240	275
Sound pressure level at 1 m	max	dB(A)	55/62	
Sound power level	max	dB(A)	82	83
Fan air flow	max	m³/h	16575	16575
Operating temp. range in cooling mode		°C / DB	-5 / 43	
Operating temp. range in heating mode		°C / WB	-15 / 24	
Connectable indoor units		**no.**	**14**	**15**
Capacity of connected indoor unit		%	50 - 130	

(1) Cooling capacity tested in accordance with ISO 5151 Standards; outdoor temperature 35° C DB, 24° C WB and indoor temperature 27° C DB, 19° C WB.
(2) Heating capacity tested in accordance with ISO 5151 Standards; outdoor temperature 7° C DB, 6° C WB and indoor temperature 20° C DB, 15° C WB.

PREMIUM - SERIE P INDOOR UNITS

NEW

		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	25.00	28.00
Cassette units	compact 60x60	 HTFU XRV-P	•	•	•	•										
	84x84	 HTBU XRV-P					•	•	•	•		•				
Ducted	medium pressure head	 HUCU XRV-P	•	•	•	•	•	•	•	•		•				
	high pressure head	 HVDU XRV-P						•	•	•		•	•	•		•
	all-outside air	 HVDU-F XRV-P									•	•				
	wall	HKEU XRV-P	•	•	•	•	•	•	•							
	floor / ceiling	 HSFU XRV-P					•	•	•	•		•				
Floor	recessed	 HFIU XRV-P	•	•	•	•										
	console	 HFCU XRV-P		•	•		•									

PROJECT VRF R410A FULL DC INVERTER

HTFU XRV-P
Compact cassette 60x60

The control must be purchased as an accessory

Main features

4 power levels: 2.20~4.50 kW.

Ultra-compact design.

Extremely quiet: only 22 dB(A) (2.20~2.80 kW).

360° air diffusion.

Condensate drain pump with possibility of raising the discharge up to 500 mm from the lower part of the unit.

Model			HTFU 225 XRV-P	HTFU 285 XRV-P	HTFU 365 XRV-P	HTFU 455 XRV-P
Rated cooling capacity		kW	2.2	2.8	3.6	4.5
Rated heating capacity		kW	2.4	3.2	4	5
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			
Serial control		type	none			
Accessories						
Decorative panel			TFP 155 XRV-P			
Panel 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						
Centralised control			See compatibility table on p. 69			

(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

Main features

5 power levels: 5.60~14.00 kW.

Low resistance and low noise fan profile.

Condensate drain pump with possibility of raising the discharge up to 750 mm from the lower part of the unit.

Internal electronic control.

Pre-set for the connection of a channel for the intake of external air.

Model			HTBU 565 XRV-P	HTBU 715 XRV-P	HTBU 905 XRV-P	HTBU 1125 XRV-P	HTBU 1405 XRV-P
Rated cooling capacity		kW	5.6	7.1	9	11.2	14
Rated heating capacity		kW	6.3	8	10	12.5	16
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	mm	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				
Serial control		type	none				
Accessories							
Decorative panel			TBP 712 IHXR				
Panel 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							
Centralised control			See compatibility table on p. 69				

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

PROJECT VRF R410A FULL DC INVERTER

HUCU XRV-P
Medium head ducted

The control must be purchased as an accessory

Main features

9 power levels: 2.20~14.00 kW.

Ultra-compact design: only 210 mm in height (2.20~7.10 kW); thanks to its small size it is ideal for use in hotels.

Available pressure head: 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.

Electrical box inside the unit body.

Condensate drain pump with possibility of raising the discharge up to 750 mm from the lower part of the unit.

Model			HUCU 225 XRV-P	HUCU 285 XRV-P	HUCU 365 XRV-P	HUCU 455 XRV-P
Rated cooling capacity		kW	2.2	2.8	3.6	4.5
Rated heating capacity		kW	2.6	3.2	4	5
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 pressure head	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
External 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			
Serial control		type	none			
Accessories						
Remote control			DHIR-5-6-XRV-K-P			
Wired remote control			DHW-5-6-XRV-K-P			
Optional parts						
Centralised control			See compatibility table on p. 69			

(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
Rated cooling capacity		kW	5.6	7.1	9	11.2	14
Rated heating capacity		kW	6.3	8	10	12.5	15.5
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 pressure head	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
External 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				
Serial control		type	none				
Accessories							
Remote control			DHIR-5-6-XRV-K-P				
Wired remote control			DHW-5-6-XRV-K-P				
Optional parts							
Centralised control			See compatibility table on p. 69				

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

PROJECT VRF R410A FULL DC INVERTER

HVDU XRV-P
Ducted with high head

The control must be purchased as an accessory

Main features

7 power levels: 7.10~28.00 kW.

Available pressure head: 200 Pa (7.10~16.00 kW); 250 Pa (20.00~28.00 kW).

Compact size: 423 mm in height (7.10~16.00 kW).

Rear air intake.

Ease of maintenance.

Model			HVDU 715 XRV-P	HVDU 905 XRV-P	HVDU 1125 XRV-P	HVDU 1405 XRV-P	HVDU 1605 XRV-P	HVDU 2005 XRV-P	HVDU 2805 XRV-P
Rated cooling capacity		kW	7.1	9	11.2	14	16	20	28
Rated heating capacity		kW	8	10	12.5	16	17	22.5	31.5
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 pressure head	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	
External 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	
Serial control		type	none						
Accessories									
Remote control			DHIR-5-6-XRV-K-P						
Wired remote control			DHW-5-6-XRV-K-P						
Optional parts									
Centralised control			See compatibility table on p. 69						

(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

Main features

These air processing units can be connected together with the indoor units to the same refrigerant system, thus increasing the design flexibility and creating mining a remarkable reduction in operating costs.

2 power levels: 12.50~14.00 kW.

Ultra-compact design: only 423 mm in height.

Max pressure head of fans: 200 Pa.

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

Model			HVDU-F 1255 XRV-P	HVDU-F 1405 XRV-P
Rated cooling capacity (1)		kW	12.5	14
Rated heating capacity (2)		kW	10.5	12
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 pressure head	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	
External 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	
Serial control		type	none	
Accessories				
Remote control			DHIR-5-6-XRV-K-P	
Wired remote control			DHW-5-6-XRV-K-P	
Optional parts				
Centralised control			See compatibility table on p. 69	

(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

HKEU XRV-P
Wall

The control must be purchased as an accessory

Main features

7 power levels: 2.20~9.00 kW.
New design.
Very compact design: 203 mm deep (2.20 kW).
Extremely quiet: only 29 dB(A) (2.20~2.80 kW).
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
Rated cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1	9
Rated heating capacity		kW	2.4	3.2	4	5	6.3	8	10
Electrical data									
Power supply		Ph-V-Hz	1-220~240V-50Hz						
Electrical absorption		W	28		30	40	45	55	82
Product specifications									
Air flow (1)	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						
Serial control		type	none						
Accessories									
Remote control			DHIR-5-6-XRV-K-P						
Wired remote control			DHW-5-6-XRV-K-P						
Optional parts									
Centralised control			See compatibility table on p. 69						

(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

Main features

5 power levels: 5.60~14.00 kW.
Auto Swing function that optimizes the distribution of air flow in the environment.
Built-in electronic expansion valve.
Easy installation with unit attached to the wall or ceiling.

Model			HSFU 565 XRV-P	HSFU 715 XRV-P	HSFU 905 XRV-P	HSFU 1125 XRV-P	HSFU 1405 XRV-P
Rated cooling capacity		kW	5.6	7.1	9	11.2	14
Rated heating capacity		kW	6.3	8	10	12.5	15
Electrical data							
Power supply		Ph-V-Hz	1-220~240V-50Hz				
Electrical absorption		W	115	115	130	180	180
Product specifications							
Air flow (1)	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				
Serial control		type	none				
Accessories							
Remote control			DHIR-5-6-XRV-K-P				
Wired remote control			DHW-5-6-XRV-K-P				
Optional parts							
Centralised control			See compatibility table on p. 69				

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

PROJECT VRF R410A FULL DC INVERTER

HFIU XRV-P
Console

The control must be purchased as an accessory

Main features

4 power levels: 2.20~4.50 kW.
Ultra-compact design: only 210 mm deep.
Dual capacity to control air output floor: upper and lower.
7 fan speeds.
Front and side air intake.
Anti-formaldehyde filter to eliminate the harmful effects of the gases released in the environments.

Model			HFIU 225 XRV-P	HFIU 285 XRV-P	HFIU 365 XRV-P	HFIU 455 XRV-P
Rated cooling capacity		kW	2.2	2.8	3.6	4.5
Rated heating capacity		kW	2.6	3.2	4	5
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			
Serial control		type	none			
Accessories						
Remote control			DHIR-5-6-XRV-K-P			
Wired remote control			DHW-5-6-XRV-K-P			
Optional parts						
Centralised control			See compatibility table on p. 69			

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

HFCU XRV-P
Flush floor

The control must be purchased as an accessory

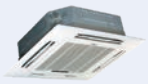
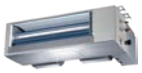
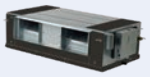
Main features

3 power levels: 2.80~5.60 kW.
Extremely quiet: only 29 dB(A) (2.80 kW).
Lower air intake.
Built-in expansion valve and electronic control.

Model			HFCU 285 XRV-P	HFCU 365 XRV-P	HFCU 565 XRV-P
Rated cooling capacity		kW	2.8	3.6	5.6
Rated heating capacity		kW	3.2	4	6.3
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 pressure head	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		
Serial control		type	none		
Accessories					
Remote control			DHIR-5-6-XRV-K-P		
Wired remote control			DHW-5-6-XRV-K-P		
Optional parts					
Centralised control			See compatibility table on p. 69		

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

PREMIUM - SERIE K INDOOR UNITS

		kW	1.50	1.80	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	12.50	14.00	16.00	20.00	25.00	28.00
Cassette units	60x60 round flow	 HTFU XRV-K	•		•	•	•	•										
	84x84	 HTBU XRV-K							•	•	•	•		•				
Ducted	low pressure head	 HRDU XRV-K		•	•		•											
	medium pressure head	 HUCU XRV-K						•	•	•	•	•		•				
	high pressure head	 HVDU XRV-K								•		•			•	•		•
	all-outside air	 HVDU-F XRV-K											•	•		•	•	•
	wall	HKEU XRV-K			•		•	•	•	•	•							
	floor / ceiling	 HSFU XRV-K							•	•	•	•		•				
Floor	recessed	 HFIU XRV-K			•	•		•										
	console	 HFCU XRV-K				•	•		•									

PROJECT VRF R410A FULL DC INVERTER

HTFU XRV-K
Cassette 60x60 round flow

Infrared remote control

Main features

5 power levels: 1.50~4.50 kW.

TFP 352 IHRS panel with 360° air diffusion.

Wide louvre oscillation range up to 40°.

Electrical box inside the unit body.

Pre-set for the connection of a channel for the intake of external air.

Condensate drain pump with possibility of raising the discharge up to 360 mm from the outlet height.

Model			HTFU 155 XRV-K*	HTFU 225 XRV-K	HTFU 285 XRV-K	HTFU 365 XRV-K	HTFU 455 XRV-K
Rated cooling capacity		kW	1.5	2.2	2.8	3.6	4.5
Rated heating capacity		kW	1.7	2.4	3.2	4	5
Electrical data							
Power supply		Ph-V-Hz	1-220~240V-50Hz				
Electrical absorption		W	14	15	16	21	
Product specifications							
Air flow	L/M/H	m³/h	364 / 449 / 526		405 / 503 / 576	409 / 521 / 610	
Sound pressure level at 1.4 m	L/M/H	dB(A)	21/32/33	22/32/34		27/34/40	
Sound power level	L/M/H	dB(A)	34/44/45	35/44/46		41/47/52	
Dimensions	LxHxD	mm	570x260x570				
	Net weight	Kg	16			17.5	
Refrigerant connections	Liquid/Gas	Ø mm (inch)	6.35 (1/4") - 12.7 (1/2")				
Condensate drain		Ø mm	25				
Serial control		type	IR Remote control				
Accessories							
Decorative panel			TFP 352 IHR-S				
Panel dimensions	LxHxD	mm	647x50x647				
	Net weight	Kg	2.5				
Optional parts							
Wired remote control			DTW 3 IHXR TOUCH / DTW IHXR SIMPLY / DTWS 4 IHXR COMPACT				
Centralised control			See compatibility table on p. 69				

* Can only be connected to XRV PLUS MINI Inverter line outdoor units up to 18 kW.

HTBU XRV-K
Cassette 84x84

Infrared remote control

Main features

5 power levels: 5.60~14.00 kW.

Opening louvre angle up to 42°.

Low resistance and low noise fan profile

TBP 712 IHXR panel and 4 removable corners for easy installation.

Condensate drain pump with possibility of raising the discharge up to 360 mm from the outlet height.

Internal electronic control (accessible from the panel).

Pre-set for connecting a duct for outside air intake and a duct for cooling/heating a small adjacent room.

Model			HTBU 565 XRV-K	HTBU 715 XRV-K	HTBU 905 XRV-K	HTBU 1125 XRV-K	HTBU 1405 XRV-K
Rated cooling capacity		kW	5.6	7.1	9	11.2	14
Rated heating capacity		kW	6.3	8	10	12.5	15
Electrical data							
Power supply		Ph-V-Hz	1-220~240V-50Hz				
Electrical absorption		W	31	46	75		94
Product specifications							
Air flow	L/M/H	m³/h	704/857/1029	748/996/1200	1030/1239/1596		1280/1500/1800
Sound pressure level at 1.4 m	L/M/H	dB(A)	34/38/43	34/39/45	36/41/47		44/47/50
Sound power level	L/M/H	dB(A)	47/50/54	47/51/56	49/53/58		48/57/61
Dimensions	LxHxD	mm	840x230x840		840x300x840		
	Net weight	Kg	24		27		30
Refrigerant connections	Liquid/Gas	Ø mm (inch)	9.52 (3/8") - 15.9 (5/8")				
Condensate drain		Ø mm	32				
Serial control		type	IR Remote control				
Accessories							
Decorative panel			TBP 712 IHXR				
Panel dimensions	LxHxD	mm	950x70x950				
	Net weight	Kg	5.8				
Optional parts							
Wired remote control			DTW 3 IHXR TOUCH / DTW IHXR SIMPLY / DTWS 4 IHXR COMPACT				
Centralised control			See compatibility table on p. 69				

PROJECT VRF R410A FULL DC INVERTER

HRDU XRV-K
Low head ducted

Infrared remote control

Main features

3 power levels: 1.80~3.60 kW.

Ultra-compact design: only 210 mm in height; thanks to its small size it is ideal for use in hotels.

Low acoustic impact: only 24 dB(A) (1.80~2.20 kW).

Metal body.

Available pressure head: 30 Pa.

Model			HRDU 185 XRV-K	HRDU 225 XRV-K	HRDU 365 XRV-K
Rated cooling capacity		kW	1.8	2.2	3.6
Rated heating capacity		kW	2.2	2.6	4.0
Electrical data					
Power supply		Ph-V-Hz	1-220~240V-50Hz		
Electrical absorption		W	23		30
Product specifications					
Air flow	L/M/H	m³/h	415/520/590		465/560/655
Fan pressure head	Std/Max	Pa	10/30		
Sound pressure level at 1.4 m	L/M/H	dB(A)	24/26/34		28/31/37
Sound power level	L/M/H	dB(A)	37/38/45		41/43/48
Dimensions	LxHxD	mm	740x210x470		
	Net weight	Kg	13.5		
Refrigerant connections	Liquid/Gas	Ø mm (inch)	6.35 (1/4") - 12.7 (1/2")		
Condensate drain		Ø mm	25		
Serial control		type	IR Remote control		
Optional parts					
Wired remote control			DTW 3 IHXR TOUCH / DTW IHXR SIMPLY / DTWS 4 IHXR COMPACT		
Centralised control			See compatibility table on p. 69		

HUCU XRV-K
Medium head ducted

Wired control standard supplied

Main features

6 power levels: 4.50~14.00 kW.

Ultra-compact design: only 210 mm for the 4.50~7.10 kW models.

Low acoustic impact: only 33 dB(A) (4.50~5.60 kW).

Available pressure head: 30 Pa (4.50~7.10 kW); 50 Pa (9.00 kW); 80 Pa (11.20 kW); 100 Pa (14.00 kW).

Bottom or rear air intake, selectable at time of installation with interchangeable panel.

Electric box can be removed from the unit body and can be installed up to 1 m away.

Display board can be freely positioned at a distance of up to 3m.

Model			HUCU 455 XRV-K	HUCU 565 XRV-K	HUCU 715 XRV-K	HUCU 905 XRV-K	HUCU 1125 XRV-K	HUCU 1405 XRV-K
Rated cooling capacity		kW	4.5	5.6	7.1	9.0	11.2	14.0
Rated heating capacity		kW	5.0	6.3	8.0	10.0	12.5	15.5
Electrical data								
Power supply		Ph-V-Hz	1-220~240V-50Hz					
Electrical absorption		W	58	89	68	108	178	204
Product specifications								
Air flow	L/M/H	m³/h	550/640/748	566/640/821	778/940/1021	940/1090/1290	1352/1550/1780	1400/1600/1950
Fan pressure head	Std/Max	Pa	10/30			20/50	40/80	40/100
Sound pressure level at 1.4 m	L/M/H	dB(A)	33/37/38		34/38/40	37/38/44	37/41/47	38/42/47
Sound power level	L/M/H	dB(A)	46/48/49		47/50/51	48/50/55	50/53/58	50/54/58
Dimensions	LxHxD	mm	960x210x500		1180x210x500	1180x270x775		1240x300x865
	Net weight	Kg	22.5		28	40	40	49
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	25					
Serial control		type	Wired remote control					
Optional parts								
Centralised control			See compatibility table on p. 69					

PROJECT VRF R410A FULL DC INVERTER

HVDU XRV-K
Ducted with high head

Wired control standard supplied

Main features

5 power levels: 7.10~28.00 kW.

Ultra-compact design: only 420 mm for the 7.10~16.00 kW models.

Low acoustic impact: only 42 dB(A) (7.10 kW).

Available pressure head: 196 Pa (7.10~16.00 kW); 200 Pa (20.00~28.00).

Rear air intake.

Model			HVDU 715 XRV-K	HVDU 1125 XRV-K	HVDU 1605 XRV-K	HVDU 2005 XRV-K	HVDU 2805 XRV-K
Rated cooling capacity		kW	7.1	11.2	16.0	20.0	28.0
Rated heating capacity		kW	8.0	12.5	17.0	22.5	31.5
Electrical data							
Power supply		Ph-V-Hz	1-220~240V-50Hz				
Electrical absorption		W	180	380	420	800	
Product specifications							
Air flow	L/M/H	m³/h	1250/1390/1500	1710/1930/2080	2400/2660/3400	4620/4660/4820	4690/4760/4870
Fan pressure head	Std/Max	Pa	25/196	37/196	50/196	62/200	
Sound pressure level at 1.4 m	L/M/H	dB(A)	42/44/46	45/47/50	50/52/54	50/53/57	
Sound power level	L/M/H	dB(A)	55/56/57	58/59/61	63/64/65	63/65/68	
Dimensions	LxHxD	mm	952x420x690		1300x420x690	1443x470x810	
	Net weight	Kg	41	47	70	108	
Refrigerant connections	Liquid/Gas	Ø mm (inch)	9.52 (3/8") - 15.9 (5/8")			2 x 9.52 (3/8") - 2 x 15.9 (5/8")	
Condensate drain		Ø mm	25			32	
Serial control		type	Wired remote control				
Optional parts							
Centralised control			See compatibility table on p. 69				

HVDU-F XRV-K
All-outside air ducted

Wired control standard supplied

Main features

These air processing units can be connected together with the indoor units to the same refrigerant system, thus increasing the design flexibility and creating mining a remarkable reduction in operating costs.

5 power levels: 12.50~28.00 kW.

Ultra-compact design: only 420 mm in height (12.50~14.00 kW).

Max pressure head of fans: 200 Pa.

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

Model			HVDU-F 1255 XRV-K	HVDU-F 1405 XRV-K	HVDU-F 2005 XRV-K	HVDU-F 2505 XRV-K	HVDU-F 2805 XRV-K
Rated cooling capacity (1)		kW	12.5	14.0	20.0	20.0	28.0
Rated heating capacity (2)		kW	10.5	12.0	18.0	20.0	22.0
Electrical data							
Power supply		Ph-V-Hz	1-220~240V-50Hz				
Electrical absorption		W	370		615	670	
Product specifications							
Air flow	L/M/H	m³/h	1470/2000/2440		2890/3430/3860		
Fan pressure head	Std/Max	Pa	50-200		62/200		
Sound pressure level at 1.4 m	L/M/H	dB(A)	48/50/52		49/51/52	50/52/53	
Sound power level	L/M/H	dB(A)	61/62/63		61/62/63	62/63/64	
Dimensions	LxHxD	mm	1300x420x690		1443x470x810		
	Net weight	Kg	63		108		
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		
Serial control		type	Wired remote control				
Optional parts							
Centralised control			See compatibility table on p. 69				

(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.

PROJECT VRF R410A FULL DC INVERTER

HKEU XRV-K
Wall

Infrared remote control

Main features

6 power levels: 2.20~9.00 kW.

Extremely quiet: only 29 dB(A) (2.20 kW)

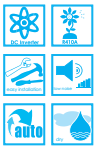
New built-in electronic expansion valve with 2000 pulse/min.

Washable standard filter & anti-formaldehyde filter to eliminate the harmful effects of the gas released in the environments.

Model			HKEU 226 XRV-K	HKEU 366 XRV-K	HKEU 456 XRV-K	HKEU 566 XRV-K	HKEU 716 XRV-K	HKEU 906 XRV-K
Rated cooling capacity		kW	2.2	3.6	4.5	5.6	7.1	9.0
Rated heating capacity		kW	2.4	4.0	5.0	6.3	8.0	10.0
Electrical data								
Power supply		Ph-V-Hz	1-220~240V-50Hz					
Electrical absorption		W	7	18	18	25	40	65
Product specifications								
Air flow	L/M/H	m³/h	356/393/422	488/573/656	424/507/594	547/648/747	809/1005/1195	867/1067/1421
Sound pressure level at 1 m	L/M/H	dB(A)	29/30/31	30/32/33	31/33/35	34/36/38	36/39/44	38/43/48
Sound power level	L/M/H	dB(A)	41/42/43	42/44/45	43/45/47	46/48/50	48/51/56	50/55/60
Dimensions	LxHxD	mm	835x280x203	990x315x223			1194x343x262	
	Net weight	Kg	8.4	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					
Serial control		type	IR Remote control					
Optional parts								
Wired remote control			DTW 3 IHXR TOUCH / DTW IHXR SIMPLY / DTWS 4 IHXR COMPACT					
Centralised control			See compatibility table on p. 69					

HSFU XRV-K
Floor/ceiling

Infrared remote control



Main features

5 power levels: 5.60~14.00 kW.

3 fan speeds.

Auto Swing function that optimizes the distribution of air flow in the environment.

Built-in electronic expansion valve.

Easy installation with unit attached to the wall or ceiling.

Electric wiring and refrigerant connections can be reached from the air intake grille.

Model			HSFU 565 XRV-K	HSFU 715 XRV-K	HSFU 905 XRV-K	HSFU 1125 XRV-K	HSFU 1405 XRV-K
Rated cooling capacity		kW	5.6	7.1	9.0	11.2	14.0
Rated heating capacity		kW	6.3	8.0	10.0	12.5	15.5
Electrical data							
Power supply		Ph-V-Hz	1-220~240V-50Hz				
Electrical absorption		W	94		126	130	
Product specifications							
Air flow	L/M/H	m³/h	720/830/930		1050/1170/1280	1580/1700/1890	
Sound pressure level at 1 m	L/M/H	dB(A)	36/38/40		40/43/45	42/45/47	
Sound power level	L/M/H	dB(A)	51/53/54		53/55/56	55/56/58	
Dimensions	LxHxD	mm	990x660x203		1280x660x203	1670x680x244	
	Net weight	Kg	27		33	49	
Refrigerant connections	Liquid/Gas	Ø mm (inch)	9.52 (3/8") - 15.9 (5/8")				
Condensate drain		Ø mm	25				
Serial control		type	IR Remote control				
Optional parts							
Wired remote control			DTW 3 IHXR TOUCH / DTW IHXR SIMPLY / DTWS 4 IHXR COMPACT				
Centralised control			See compatibility table on p. 69				

PROJECT VRF R410A FULL DC INVERTER

HFIU XRV-K
Console

Infrared remote control

Main features

3 power levels: 2.20~4.50 kW.
Ultra-compact design: only 210 mm deep.
Dual capacity to control air output floor: upper and lower.
5 fan speeds.
Front and side air intake.
Anti-formaldehyde filter to eliminate the harmful effects of the gases released in the environments.

Model			HFIU 225 XRV-K	HFIU 285 XRV-K	HFIU 455 XRV-K
Rated cooling capacity		kW	2.2	2.8	4.5
Rated heating capacity		kW	2.6	3.2	5.0
Electrical data					
Power supply		Ph-V-Hz	1-220~240V-50Hz		
Electrical absorption		W	20	25	45
Product specifications					
Air flow (1)	L/M/H	m³/h	229/345/430	229/430/510	400/512/660
Sound pressure level at 1 m (1)	L/M/H	dB(A)	26/32/38	27/33/39	36/39/42
Sound power level (1)	L/M/H	dB(A)	39/44/49	40/45/50	49/51/53
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		
Serial control		type	IR Remote control		
Optional parts					
Wired remote control			DTW 3 IHXR TOUCH / DTW IHXR SIMPLY / DTWS 4 IHXR COMPACT		
Centralised control			See compatibility table on p. 69		

HFCU XRV-K
Flush floor

Infrared remote control

Main features

3 power levels: 2.80~5.60 kW.
Extremely quiet: only 29 dB(A) (2.80 kW)
Lower air intake.
Built-in expansion valve and electronic control

Model			HFCU 285 XRV-K	HFCU 365 XRV-K	HFCU 565 XRV-K
Rated cooling capacity		kW	2.8	3.6	5.6
Rated heating capacity		kW	3.2	4.0	6.3
Electrical data					
Power supply		Ph-V-Hz	1-220~240V-50Hz		
Electrical absorption		W	24	19	41
Product specifications					
Air flow (1)	L/M/H	m³/h	421/485/569	375/522/624	830/970/1150
Fan pressure head	Std/Max	Pa	10/10		
Sound pressure level at 1 m (1)	L/M/H	dB(A)	29/33/36	33/36/37	31/35/41
Sound power level (1)	L/M/H	dB(A)	42/45/47	43/46/48	44/47/52
Dimensions	LxHxD	mm	840x545x212	1040x545x212	1340x545x212
	Net weight	Kg	21	28	32
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	25		
Serial control		type	IR Remote control		
Optional parts					
Wired remote control			DTW 3 IHXR TOUCH / DTW IHXR SIMPLY / DTWS 4 IHXR COMPACT		
Centralised control			See compatibility table on p. 69		

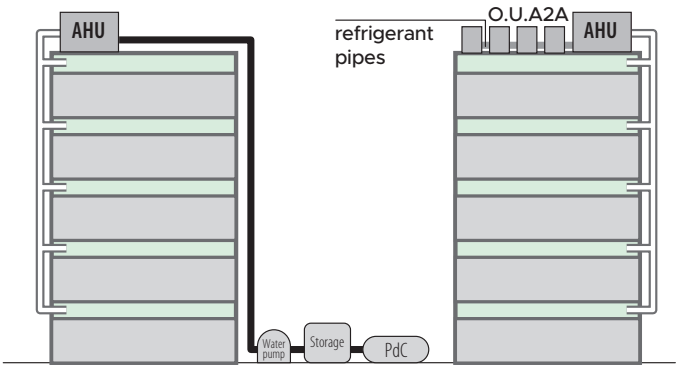
EEV KIT

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

HAHU 9-20 XRV-K
HAHU 20-36 XRV-K
HAHU 36-56 XRV-K

Traditional VS XRV systems with EET-KIT

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



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

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

EEV-KIT Application diagrams

Diagram type A: Mixed system indoor unit XRV + AHU

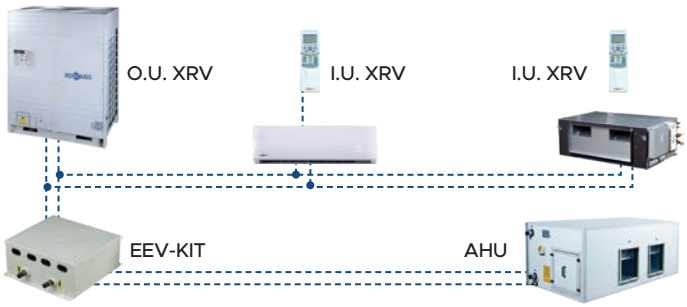
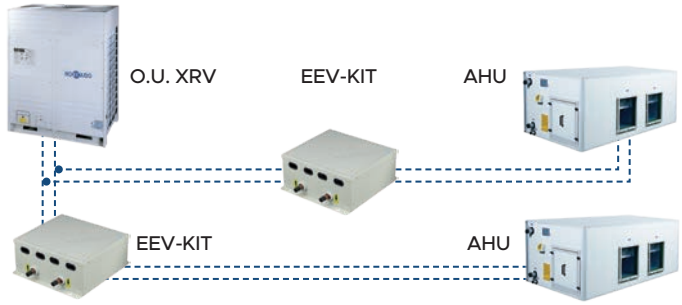


Diagram type B: AHU only



EEV-KIT Advantages

High energy efficiency thanks to XRV technology which involves:

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

Installation and operation

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

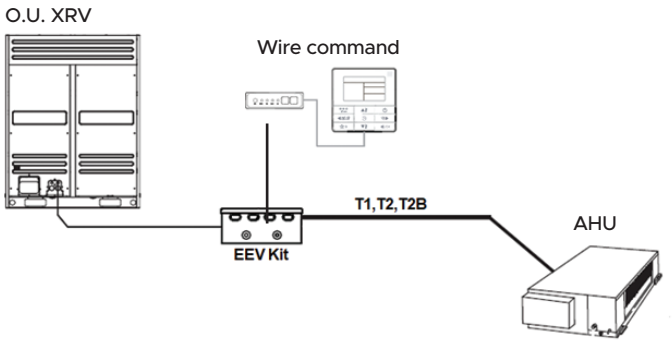
- Failure feedback function: error codes can be shown on the display when malfunctions occur. It is also possible to verify the set temperature.
- Maximum Number of EEV-Kit that can be connected to an AHU: 4 (maximum reachable capacity 224 kW).
- Maximum distance between EEV Kits and AHU: 8 m. Kit can be connected with XRV systems with R410A refrigerant gas, except for heat recovery systems (XRV 3 pipes).

EEV KIT

Technical data

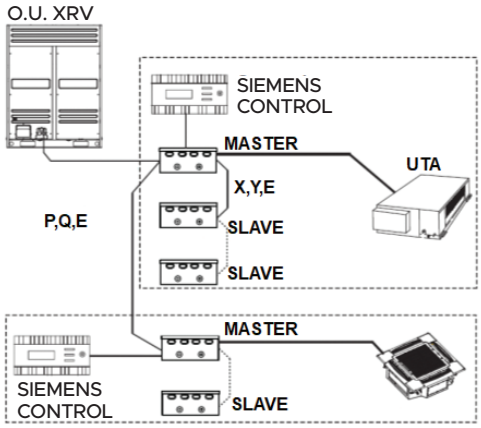
Model	HAHU 9-20 XRV-K	HAHU 20-36 XRV-K	HAHU 36-56 XRV-K
Rated heating (kW)	9~20	20.1~36	36.1~56
Power supply (Ph-V-Hz)		1-220~240V-50Hz	
H x L x P (mm)		375 x 350 x 150	
Net weight (kg)	8.4	8.7	8.9
In/out refrigerant connections [Ø mm (inch)]	7.9 (5/16")	12.7 (1/2")	15.9 (5/8")
Serial control (type)		Wired remote control	
Optional parts			
Third-party control		Siemens POL 638.70	
Centralised 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



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

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

EEV-KIT type selection

Model	HP	I.U. rated capacity (kW)
HAHU 9-20 XRV-K	3.2	Between 9.0 and 11.2 kW
	4	Between 11.2 and 14.0 kW
	5	Between 14.0 and 18.0 kW
	6	Between 18.0 and 20.0 kW
HAHU 20-36 XRV-K	8	Between 20.0 and 25.0 kW
	10	Between 25.0 and 30.0 kW
	12	Between 30.0 and 36.0 kW
HAHU 36-56 XRV-K	14	Between 36.0 and 40.0 kW
	16	Between 40.0 and 45.0 kW
	18	Between 45.0 and 50.0 kW
	20	Between 50.0 and 56.0 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

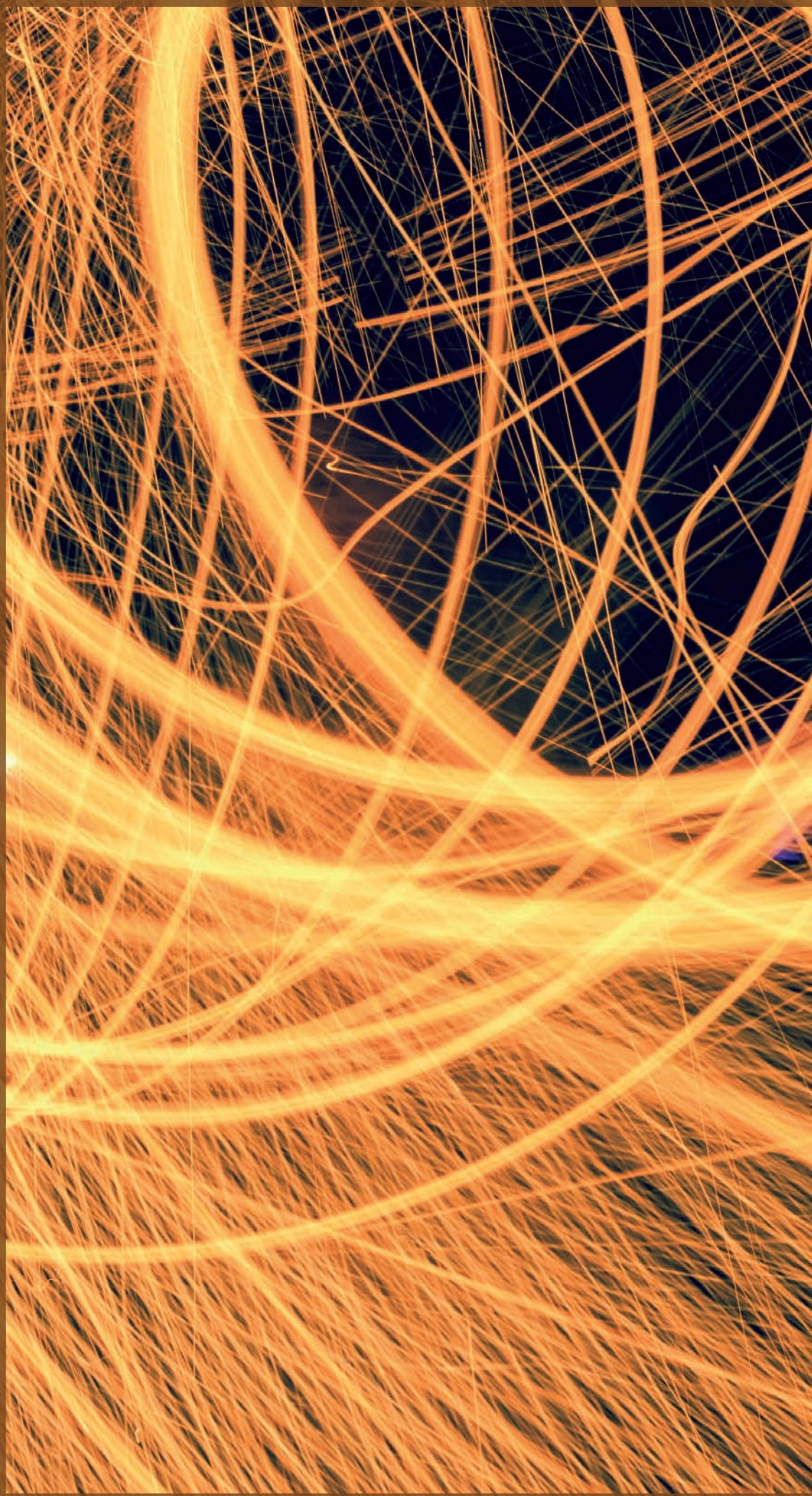
If the AHU has a capacity of 92 kW, 2 EEV-KITs can be installed:

HAHU 36-56 XRV-K - setting capacity 20HP

HAHU 20-36 XRV-K - setting capacity 12HP


Sector 1
Sector 2
Sector 3
$ 31 555,00 $ 82 710,00 $ 36 338,00
$ 56 032,00 $ 43 685,00 $ 37 129,00
$ 88 728,00 $ 34 549,00 $ 52 101,00
$ 27 862,00 $ 15 001,00 $ 7 307,00
$ 21 764,00 $ 9 822,00 $ 60 496,00
$ 53 225,00 $ 30 359,00 $ 29 905,00
$ 16 477,00 $ 27 176,00 $ 62 545,00
$ 47 572,00 $ 15 818,00
$ 41 374,00 $ 39 266,00

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

HOKKAIDO

AIR-WATER CHILLER

MONOBLOC UNIT

Single phase 5~7 kW
HCWNMS 501-701 X

Single phase 10~12 kW
HCWNMS 1001-1201 X

Three-phase 12~16 kW
HCWSMS 1201-1401-1601 X

Mini Chiller
monobloc with integrated hydronic module
FULL DC Inverter

The Hokkaido Mini Chiller lets you cool and heat rooms by means of water terminals such as fan coils or radiant floors. High efficiency radiators can also be powered in heating.

The ultra compact design and the double control panel (on-board the unit or remote) make the Mini Chiller units systems that are easy to install and extremely functional.

Full DC Inverter compressor control and individual component optimisation guarantee the highest efficiency and energy savings.

DC Inverter Twin Rotary compressor

Air side heat exchanger

EXV electronic expansion valve

Fan

High efficiency water side heat exchanger

Main features

Efficient

Low consumption and energy savings thanks to its integrated Full DC Inverter technology.

Ultra compact

The monobloc unit has a compact structure thanks to optimisation of the internal components, also containing the integrated hydronic group with the minimum dimensions.

Environmentally friendly

Mini Chiller uses the environmentally friendly R410A refrigerant, which does not damage the ozone.

Maximum comfort

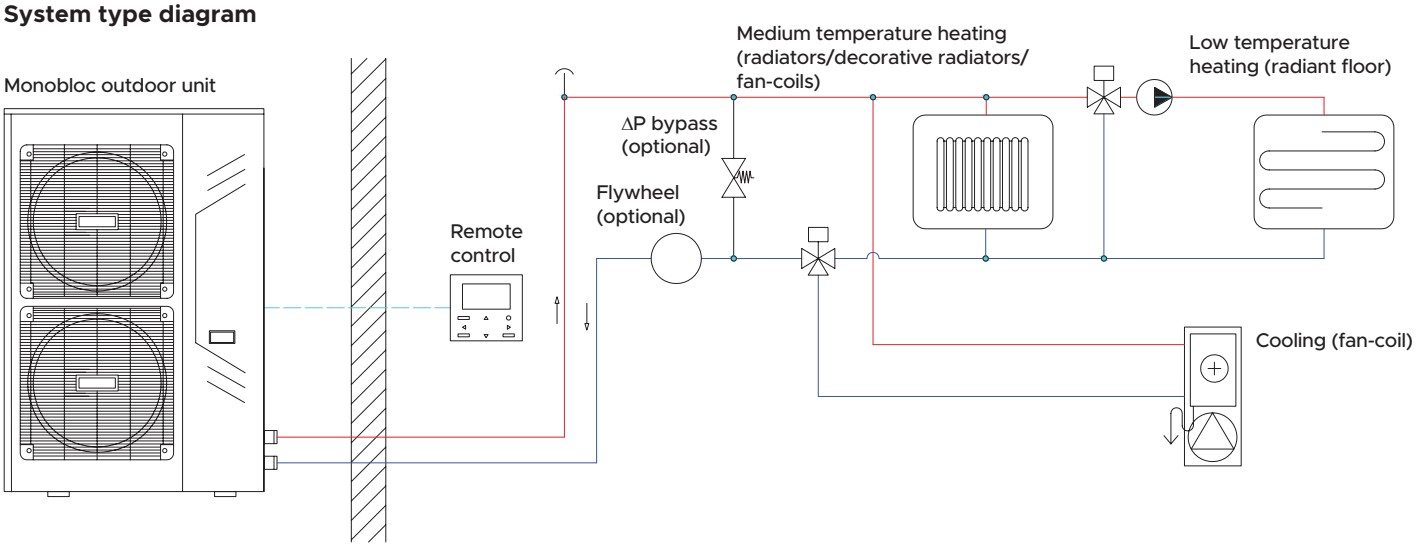
The Inverter control allows units to rapidly reach the desired temperature, remaining constant and without annoying oscillations.

“Plug & play” solution

Installation is simple thanks to the integrated hydronic module, which includes electronic circulator, expansion tank, automatic vent valve and safety devices.

AIR-WATER CHILLER

System type diagram



Model				HCWNMS 501 X	HCWNMS 701 X	HCWNMS 1001 X	HCWNMS 1201 X	HCWSMS 1201 X	HCWSMS 1401 X	HCWSMS 1601 X
Cooling performance (Air temp. 35°C - Water temp. in/out 12°C/7°C)										
Refrigerant power			kW	5.00 (1.90~5.80)	7.00 (2.10~7.80)	10.00 (2.90~10.50)	11.20 (3.10~12.00)	11.20 (3.10~12.00)	12.50 (3.30~14.00)	14.50 (3.50~15.50)
Power absorption			kW	1.55	2.25	2.95	3.50	3.38	3.90	4.68
EER				3.23	3.11	3.39	3.20	3.31	3.20	3.10
Cooling performance (Air temp. 35°C - Water temp. in/out 23°C/18°C)										
Refrigerant power			kW	5.60	8.00	10.60	12.20	12.20	14.20	15.60
Power absorption			kW	1.15	1.85	2.50	2.65	2.60	3.10	3.60
EER				4.87	4.32	4.24	4.60	4.70	4.58	4.33
SEER				5.83	6.27	5.71	6.37	6.18	6.69	6.78
Heating performance (Air temp. 7° C DB/6° C WB - In/out water temp. 40° C/45° C)										
Heating capacity			kW	6.20 (2.10~7.00)	8.00 (2.30~9.00)	11.00 (3.20~12.00)	12.30 (3.30~13.20)	12.30 (3.30~13.20)	13.80 (3.50~15.40)	16.00 (3.70~17.00)
Power absorption			kW	1.90	2.50	3.14	3.78	3.72	4.25	4.85
COP				3.26	3.20	3.50	3.25	3.31	3.25	3.30
Heating performance (Air temp. 7° C DB/6° C WB - In/out water temp. 30° C/35° C)										
Heating capacity			kW	6.20	8.60	11.50	13.00	13.00	15.10	16.50
Power absorption			kW	1.35	2.10	2.65	2.92	2.85	3.35	3.92
COP				4.60	4.10	4.34	4.45	4.56	4.51	4.21
SCOP				3.55	3.46	3.34	3.46	3.66	3.78	3.39
Seasonal heating efficiency (ηs)			%	138.9	135.3	130.7	135.4	143.5	148.3	132.6
Seasonal energy efficiency class				A+						
Operating limits	Outside air temperature	Cooling	°C	-5~46						
		Heating	°C	-15~27						
	Water temperature	Cooling	°C	4~20						
		Heating	°C	30~55						
Compressor	Type			Twin Rotary DC Inverter						
Refrigerant	Type			R410A						
	Load		kg	2.5	2.5	2.8	2.8	2.8	2.9	3.2
Expansion valve	Type			Electronic						
Air side heat exchanger	Type			Finned coil with coppper pipes and hydrophilic aluminium louvres						
Fan	Type			DC Brushless						
	Number			1	1	2	2	2	2	2
	Air flow		m³/h	5,100	5,100	7,000	7,000	7,000	7,000	7,000
Water side heat exchanger	Type			With brazed stainless steel plates						
	Volume		l	0.53	0.53	0.70	0.78	0.78	0.78	1.06
	Water flow		m³/h	0.86	1.20	1.72	1.92	1.92	2.15	2.49
	Load loss		kPa	15	15	18	18	18	18	19
Circulator	Type			Electronic						
	Water flow		l/h	240	240	240	240	240	240	240
	Pressure head		m	5.5	5.5	7.5	7.5	7.5	7.5	7.5
Expansion tank	Volume		l	2	2	3	3	3	3	3
	Pre-load		bar	1						
Maximum/minimum water pressure			bar	5/1.5						
Hydraulic connections	Water inlet/outlet		inches	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"
Electrical data	Power		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50
	Maximum absorption		A	11.4	13.7	25.00	19.10	8.90	9.60	10.10
	Absorbed		no. x mm²	3x2.50	3x2.50	3x4.00	3x4.00	5x3.00	5x3.00	5x3.00
	Signal (shielded)		no. x mm²	3x0.75	3x0.75	3x0.75	3x0.75	3x0.75	3x0.75	3x0.75
Sound pressure level (*)			dB(A)	58	58	59	59	62	62	62
Sound power level			dB(A)	63	66	68	68	68	70	72
Dimensions	(LxDxH)	External	mm	990x354x966	990x354x966	970x400x1327	970x400x1327	970x400x1327	970x400x1327	970x400x1327
		Packaging	mm	1120x435x1100	1120x435x1100	1082x435x1456	1082x435x1456	1082x435x1456	1,082x435x1,456	1082x435x1456
Net		Net	kg	81	81	110	110	110	111	111
		Gross	kg	91	91	121	121	121	122	122

(*) Sound pressure at 1 m distance in an open field.
The data contained above refers 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.

FAN COIL - EXPOSED AND RECESSED HYDRONIC TERMINALS

EXPOSED UNIT

HFLMM 200-900 W-SN

RECESSED UNIT

HFYMM 200-550 W-SN

ONLY 12 W
OF POWER CONSUMPTION
[mod. 200]

ONLY 19 DB(A)
[mod. 200]

Main features

5 power sizes for the exposed model and 3 power sizes for the recessed model.

Floor/ceiling model in the double exposed and recessed version.

Extremely quiet: only 19 dB(A) for size 200.

DC Brushless fan motor.

Useful for ceiling and floor installations.

Compact, elegant model with decorative feet (optional).

The grey louvres are manually adjustable on the exposed model, ensuring even diffusion of air inside the environment for optimal comfort.

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 ideal for all environments that need to be air-conditioned, heating or cooling 365 days a year at all times. 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, religious places of worship, warehouses and basements.

Flexible installation and simple maintenance

Both Hokkaido FAN COIL versions, recessed and exposed, can be installed both on the floor and on the ceiling thanks to the special shape of the condensate drain tray and the possibility of interacting via the remote control panel. Coil connections are on the left and can be switched to the right.

The FAN COILS can also be easily inspected, making routine and special maintenance easy and fast.

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 tradition fan coil with AC motor.
- Reduced CO2 emissions.

In heating mode

Ventilation starts only if the water inlet temperature is > di 30° C: this prevents the circulation of cold air in the room.

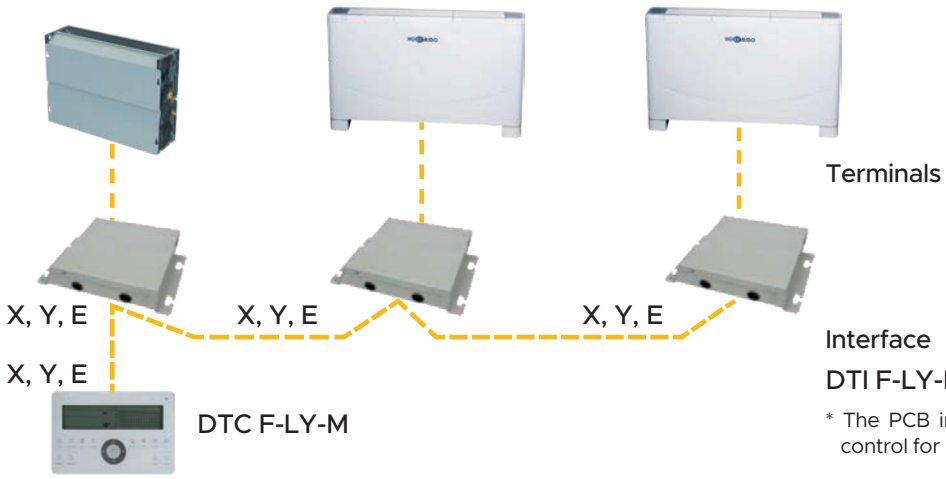
Temperature

The room temperature range that can be set on the Hokkaido fan coil thermostat is 17~30° C (both in cold and heat).

FAN COIL - EXPOSED AND RECESSED HYDRONIC TERMINALS

Centralized management

Allows up to 64 units to be controlled completely and independently.



* The PCB interface kit is already equipped with a wired control for individual control of the unit.

Centralised control

- LCD display
- Soft touch buttons.
- Operating mode and temperature control.
- Speed control (high/medium/low).
- Daily on-off timer.

PCB interface kit

(to be combined with the centralized control)

An interface must be installed for each connected terminal.

Exposed unit			HFLMM 200 W-SN	HFLMM 350 W-SN	HFLMM 550 W-SN	HFLMM 700 W-SN	HFLMM 900 W-SN
Recessed unit			HFYMM 200 W-SN	HFYMM 350 W-SN	HFYMM 550 W-SN		
Power		V/Ph/Hz	220-240/1/50				
Air flow (H/M/L) [1]		m3/h	255 / 215 / 190	510 / 430 / 380	765 / 650 / 570	1020 / 870 / 765	1530 / 1300 / 1150
Cooling [2]	Power (H/M/L)	kW	1.74 / 1.31 / 1.05	2.84 / 2.21 / 1.63	4.43 / 3.21 / 2.52	5.51 / 3.92 / 2.99	6.87 / 5.32 / 4.31
	Water flow	l/h	299	488	762	948	1182
	Water load loss	kPa	8.5	16.3	30.1	16.6	31.4
Water heat. 45°C [3]	Power (H/M/L)	kW	1.67 / 1.16 / 1.03	3.02 / 2.27 / 1.63	4.53 / 3.23 / 2.44	5.74 / 4.19 / 3.17	7.58 / 5.65 / 4.52
	Water flow	l/h	245	400	625	777	969
	Water load loss	kPa	5.6	10.2	17.7	10.2	17.9
Water heat. 55°C [4]	Power (H/M/L)	kW	2.41 / 1.68 / 1.48	4.34 / 3.27 / 2.35	6.51 / 4.65 / 3.52	8.26 / 6.03 / 4.55	10.9 / 8.13 / 6.5
	Water flow	l/h	353	576	899	1,119	1,395
	Water load loss	kPa	10.4	18.9	32.9	18.9	33.3
Water heat. 70° C [5]	Power (H/M/L)	kW	2.76 / 1.92 / 1.69	4.98 / 3.75 / 2.69	7.47 / 5.33 / 4.03	9.47 / 6.91 / 5.22	12.5 / 9.32 / 7.46
	Water flow	l/h	201	328	512	637	795
	Water load loss	kPa	3.8	6.8	11.9	6.8	12.0
Power consumption (H)		W	12	26	26	36	101
Sound pressure (H/M/L) [6]		dB(A)	29/25/19	32/28/22	36/32/26	40/34/28	43/37/31
Fan motor	Type		DC Brushless				
	Quantity		1				
Fan	Type		Centrifugal with forward curved blades				
	Quantity		1	2	2	3	3
Coil	Rows		3	2	3	2	2
	Maximum pressure	Pa	1.6				
	Diameter	mm	09.52				
Exposed version	Net dimensions	mm	800x592x220	1000x592x220	1200x592x220	1500x592x220	1500x592x220
	Packaging dimensions	mm	889x683x312	1089x683x312	1289x683x312	1589x683x312	1589x683x312
	Net weight	kg	24.4	28.2	34.2	40.0	40.0
	Gross weight	kg	28.4	33.2	39.7	45.5	45.5
Recessed version	Net dimensions	mm	550x545x212	750x545x212	950x545x212	1250x545x212	1250x545x212
	Packaging dimensions	mm	639x639x305	839x639x305	1039x639x305	1339x639x305	1339x639x305
	Net weight	kg	17.0	20.0	25.0	32.0	32.0
	Gross weight	kg	19.0	23.5	29.0	36.0	36.0
Hydraulic connections		"	G3/4				
Drain		mm	OD016				

NOTES (1) H: High speed; M: Medium speed; L: Low speed - Useful pressure head 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.

HP SPLIT FULL DC INVERTER

OUTDOOR UNITS

Single phase 6.10 kW
HCEMS 602 X

Single phase 8 kW
HCEMS 802 X

Single phase
10~12.10 kW
HCEMS 1002 - 1202 X

Three-phase 14~15.50 kW
HCVMS 1402 - 1602 X

INDOOR UNIT

Single phase
HHNMS 4-82 X
HHNMS 10-162 X

Three-phase
HHSMS 12-162 X

TANK

ACS UP TO 55° C WITHOUT ELECTRICAL INTEGRATION

Main features

6 power sizes: 6.10~8 kW and 10~12.10 kW (single phase); 14~15.50 kW (three-phase).

COP 4,73 (mod. 6.10 kW).

Class energy rating A++.

Heating operation up to -20° C and +46° C in cooling.

Why choose the HP SPLIT system

Energy saving

- Full DC Inverter technology.
- Energy Class A ++ in heating.
- Possible integration with solar thermal.

Easy installation

- Hydraulics integrated in the hydronic module.
- Split up to 50 m with 25 m difference in height between I.U. and O.U.
- Extremely compact outdoor unit.

Benefits and tax deductions

Solution suitable both for new constructions, as it is in a heat pump, and for renovations: it can be integrated with new or pre-existing boilers. Thermal Account 2.0; Tax deductions 65% (for the Italian market only)

Air-water heat pump for cooling, heating, domestic hot water

The new HP Split Hokkaido models guarantee maximum precision in temperature regulation, very high performance, in terms of energy efficiency.

The HP Split solution avoids the freezing risk of outdoor pipes in areas with cold temperatures.

It can also be connected to manage the control of additional heat generators such as: solar systems, gas or pellet boilers and supply tanks for DHW production.

Outdoor units

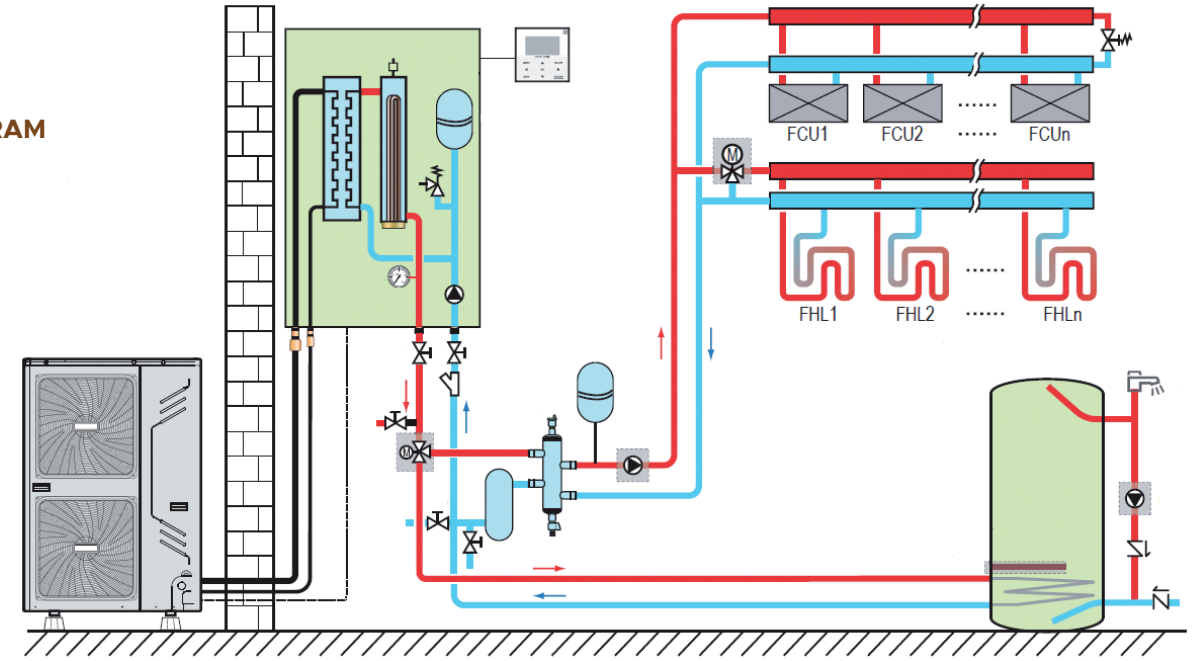
- Twin-Rotary DC Inverter compressor optimized for heating operation.
- The axial fans with DC Inverter motor allow better control of the treated air flow, lower consumption and reduced noise emissions.
- Electronic expansion valve for optimal regulation of the refrigerant flow in the circuit.
- Air side heat exchanger with internally corrugated copper pipes and aluminium louvres with increased surface area.

Indoor units

- Electronic circulator.
- Expansion tank
- Vent valve, safety valve, flow switch and water pressure gauge.
- Supplementary electrical resistance.
- High efficiency water side heat exchanger, with stainless steel brazed plates.

HP SPLIT FULL DC INVERTER

SYSTEM DIAGRAM



Size				6	8	10	12	14	16
Unit				Outdoor					
Models				HCEMS 602 X	HCEMS 802 X	HCEMS 1002 X	HCEMS 1202 X	HCVMS 1402 X	HCVMS 1602 X
Heating A7/W35[1]	Supplied power		kW	6.10	8.00	10.00	12.10	14.00	15.50
	Power absorption		kW	1.29	1.73	2.17	2.74	3.26	3.79
	COP			4.73	4.62	4.61	4.42	4.29	4.09
Heating A7/W45[2]	Supplied power		kW	5.96	7.34	10.12	11.85	13.93	15.48
	Power absorption		kW	1.68	2.13	2.93	3.48	4.21	4.87
	COP			3.55	3.45	3.45	3.41	3.31	3.18
Cooling A35/W18[3]	Supplied power		kW	6.00	8.00	10.00	11.80	13.00	14.00
	Power absorption		kW	1.29	1.78	2.07	2.65	3.21	3.68
	EER			4.66	4.49	4.83	4.45	4.05	3.80
Cooling A35/W7[4]	Supplied power		kW	6.15	6.44	9.39	11.02	12.53	12.91
	Power absorption		kW	2.08	2.24	3.26	4.17	5.21	5.52
	EER			2.96	2.88	2.88	2.64	2.40	2.34
Seasonal energy efficiency class in heating				A++	A++	A++	A++	A++	A++
Outside temperature operating interval	Heating		℃	-20~35					
	DHW			-20~43					
	Cooling			-5~46					
Power				1-220~240V-50HZ				3-380~415V-50HZ	
Protection switch flow			A	32	32	40	40	32	32
Sound power level			dB(A)	66	68	67	68	72	72
Compressor				Twin Rotary DC Inverter					
Refrigerant	Type/quantity		kg	R410A/2,5	R410A/2,8	R410A/3,9	R410A/3,9	R410A/4,2	R410A/4,2
Diameter of refrigerant piping on liquid/gas side			mm (in)	ø 9.52 (3/8") - ø 15.88 (5/8")					
Maximum splitting O.U. - I.U.			m	20	30	50	50	50	50
Maximum height difference O.U. - I.U./I.U. - O.U.			m	10/8	20/15	30/25	30/25	30/25	30/25
Dimensions	L - D - H		mm	960 - 380 - 860	1075 - 395 - 965	900 - 400 - 1327	900 - 400 - 1327	900 - 400 - 1327	900 - 400 - 1327
Net weight			kg	60	76	99	99	115	115
Isolation			-	IP24					

Unit				Indoor		
Models				HHNMS 4-82 X	HHNMS 10-162 X	HHSMS 12-162 X
Delivery water temperature interval	Domestic Water		℃	40~55		
	Heating			25~55		
	Cooling			7~25		
Power				1-220~240V-50HZ		3-380~415V-50HZ
Protection switch flow			A	32		
Integrative heating elements			kW	1.5 + 1.5	1.5 + 1.5	1.5 + 1.5 + 1.5
Sound power level			dB(A)	43	45	45
Expansion tank	Volume		L	3		
	Pre-load		bar	1.5		
Circulation pump	Type		-	DC Inverter centrifuge		
	Minimum water flow		L/h	660	960	
	Max pressure head		m	6	7.5	7.5
Water/freon exchanger			-	Heat plate exchanger		
Minimum/maximum operating pressure			bar	0.3/3.0		
Hydraulic connection diameter			inches	ø1" (DN25)		
Dimensions	L - D - H		mm	400 - 427 - 865	400 - 427 - 865	400 - 427 - 865
Net weight			kg	51	54	53
Isolation			-	IPX1		

Notes: 1. Measurement conditions A7/W35: outdoor air temperature 7° C DB/6° C WB, delivery water temperature 35° C, return water temperature 30° C. 2. Measurement conditions A7/W45: outdoor air temperature 7° C DB/6° C WB, delivery water temperature 45° C, return water temperature 40° C. 3. Measurement conditions A35/W18: outdoor air temperature 35° C DB/24° C WB, delivery water temperature 18° C, return water temperature 23° C. 4. Measurement conditions A35/W7: outdoor air temperature 35° C DB/24° C WB, delivery water temperature 7° C, return water temperature 12° C.

HOT WATER

Water heater with heat pump

150 litre "In Room" monobloc series

GAS R134A

EN 16147 certification from an Intertek accredited.

Intertek

>60°C with a single compressor

Stainless steel tank.

Anti-legionella cycle

ErP Ready

HWMGS 1150 A

Main features

Water heater with heat pump, monobloc on base.

Refrigerant gas R134A.

150 litrer stainless steel tank.

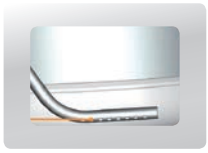
Hot water up to 60° C with the COP 3.52* compressor only.

Anti-legionella cycle.

Multi-function control panel:

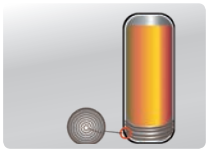
- clock, timer, night programming, absence and holiday programmes;
- operating modes: standard, energy savings, fast operation, e-heater

* In accordance with EN 16147.



Cold water inlet diffuser (with micro-holes to limit turbulence and water mixing)

Flat microchannel aluminium heat exchanger (greater contact surface with the tank and better heat exchange)



Further tube winding on the bottom of the "nest effect" tank (higher useful DHW volume)

Energy class

HWMGS 1150 A

L A

High efficiency: efficiency class A+ according to the new ErP 2017 limits (effective from 26/09/2017)

65%

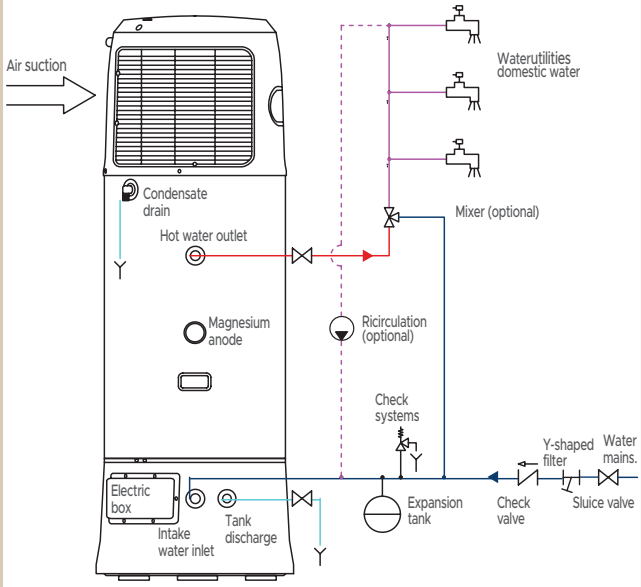
Tax deductions

Energy redevelopment

THERMAL ACCOUNT 2.0

Model			HWMGS 1150 A
Tank volume		L	150
Rated thermal power[1]		W	1500
Rated power consumption[1]		W	429
Rated hot water production capacity[1]		L/h	32
COP (rated)[1]		W/W	3.50
COPDHW[2]		W/W	3.52
Test cycle profile[2]		-	L
Volume of hot water at 40°C[2]		L	161
Energy Efficiency Class[3]		-	A*
IP Degree of protection		-	IPX4
Hot water T. adjustment interval		°C	35~70 (55 default)
Electrical data	Power	-	220-240 Vac / 50 Hz
	Integrative heating element	W	1500
	Maximum absorption (including heating element)	W	2500
	Isolation level	-	I
Refrigerant	Type	-	R134a
	Quantity	kg	0.8
Compressor		-	Rotary ON/OFF
Dimensions	Unit Ø x H	mm	591 x 1685
	Packaging L x D x H	mm	703 x 703 x 1765
Net weight/Gross weight		kg	74/88
Sound power level		dB(A)	60
Sound pressure level at 1 m		dB(A)	50
Tank	Tank material	-	Stainless steel
	DHW hydraulic connections	(" - DN)	G1/2 - DN15
	Magnesium anode	-	G3/4" - Ø21 x 400
	Maximum operating pressure	bar	7
Suctioned air	Operating range	°C	0~45
	Rated flow (not ducted)	m3/h	369
	Air flow (ducted)	m3/h	Not permitted
	Air duct - Diameter	mm	-
	Air duct - Length	m	-

Hydraulic connections diagram



1. Conditions: suctioned air 20° C DB (15° C WB), inlet water 15° C / outlet water 55° C. 2.Test according to EN16147; air 20° C.
3. Directive 2009/125/EC - ERP EU no. 814/2013 (TUV Sud certification). *Efficiency class A+ in accordance with the new 2017 ErP limits (effective from 26/09/2017).

HOT WATER

Water heater with heat pump

300/500 litre "Ducted" monobloc series

Possibility of integration with solar thermal

GAS R134A

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

up to 500Lt of capacity

Stainless steel tank.

Anti-legionella cycle

ErP Ready

HWMAS 3200 HEA-2
HWMAS 5400 HEA-2

Main features

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

Refrigerant gas R134A.

300 or 500 litre stainless steel tank.

Hot water up to 60° C with the compressor only.

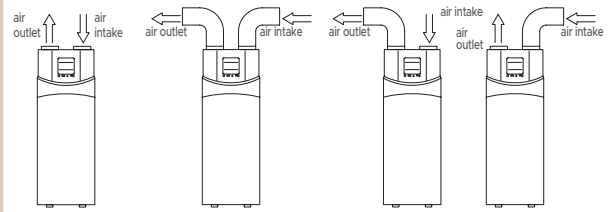
COP 2.74* for the 300 litre model and COP 2.69* for the 500 litre model.

Anti-legionella cycle that 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.

4 installation modes



Energy class

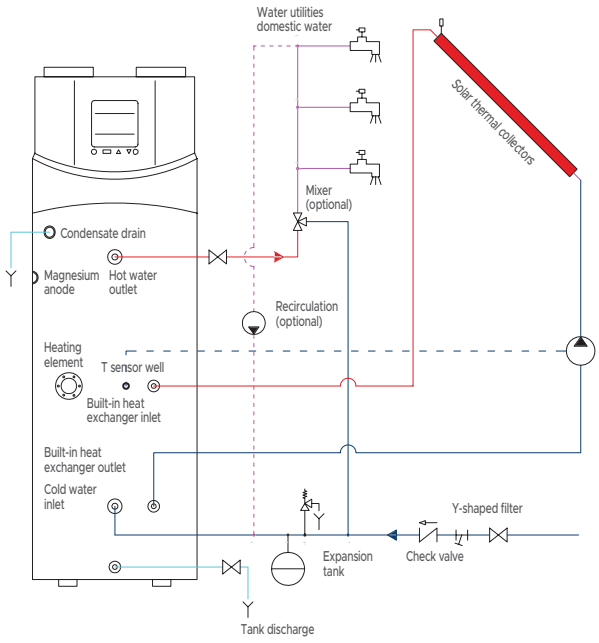
65%
Tax deductions
Energy redevelopment

THERMAL ACCOUNT 2.0

Model			HWMAS 3200 HEA-2	HWMAS 5400 HEA-2
Tank volume		L	300	500
Solar integration coil (stainless steel)		m2	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
COPDHW[2]		W/W	2.74	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	-	220-240 Vac / 50 Hz	220-240 Vac / 50 Hz
	Integrative heating element	W	1600	1600
	Maximum current (including heating element)	A	10.0	13.0
Refrigerant	Type	-	R134a	R134a
	Quantity	kg	0.80	1.45
Compressor		-	Rotary (ON/OFF)	Rotary (ON/OFF)
Dimensions	Unit Ø x H	mm	640 x 1845	700 x 2230
	Packaging L x D x H	mm	695 x 695 x 1965	755 x 755 x 2368
Net weight/Gross weight		kg	104/108	122 /135
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	(Inches - DN)	1" - DN25	1" - DN25
	Hydraulic solar coil connections	(Inches - DN)	3/4" - DN20	3/4" - DN20
	Magnesium anode	-	G3/4" - Ø 21x300	G3/4" - Ø 21x300
	Maximum operating pressure	bar	10	10
	Insulation thickness	mm	45	50
	Insulation material	-	polyurethane	polyurethane
Suctioned air	Operating range	°C	-5~+43	-5~+43
	Rated flow (not ducted)	m3/h	450(@0Pa)	400(@0Pa)
	Air flow (ducted)	m3/h	400(@60Pa)	350(@60Pa)
	Air duct - Diameter	mm	177	177
	Air duct - Length	m	6	6

Notes: 1. Conditions: suctioned air 20° C DB (15° C WB), inlet water 15° C / outlet water 55° C. 2.Test according to EN16147; air 20° C. Test according to EN16147; air 7° C. 3. Directive 2009/125/EC - ERP EU no. 814/2013 (WBREAU VERITAS certification).

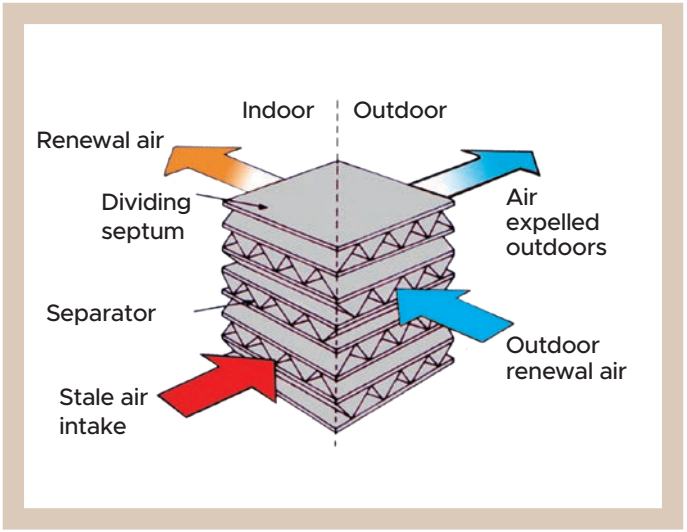
Hydraulic connections diagram



TOTAL HEAT EXCHANGER

EHIN 203~1003

EHIN 1503~2003



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

The ventilation units with heat recovery are suited for use in bars, restaurants, offices, gyms, changing rooms and all rooms where it is necessary to exchange air 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 that is introduced without coming into contact with it.

Integration and control with Hokkaido XRV units through the use of centralized controls DTC-IHXR / DTCWT-IHR

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

Model		EHIN 203	EHIN 303	EHIN 403	EHIN 503	EHIN 803	EHIN 1003	EHIN 1503	EHIN 2003
Power	Ph-V-Hz	1~220~240~50							
Enthalpy exchange efficiency	%	77.5	72.1	73.5	74.0	72.3	76.0	69.4	74.7
Heat exchange efficiency	%	81.1	75.5	77.7	80.6	78.7	82.8	75.5	77.2
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
Treated air	m3/h	200	300	400	500	800	1000	1500	2000
Available pressure head (high speed)	Pa	100	90	100	90	140	160	180	200
Ducting flange	Ø mm	144	144	198	244	244	244	346x326	346x326
External dimensions (DxLxH)	mm	1195x801x272	1195x914x272	1276x1204x272	1311x1106x390	1311x1286x390	1311x1526x390	1740x1375x615	1811x1575x685
Net weight	Kg	46.5	56.5	71.5	76	80	90	181.5	208.5
Max sound power level	dB(A)	45	48	48	50	55	54	69	70
Field of application	°C	-7~43 DB (max UR 80%)							
Degree of protection		IPX2							
Serial control	type	none (the control must be purchased as an accessory)							
Accessories									
Wired remote control		DHW EH							

EU Ecodesign Directive 1253/2014 for non-residential ventilation units (NRVU) and residential ventilation (RVU).
EU Energy Labelling 1254/2014 Residential Ventilation Unit (RVU).

CONTROLS

HOKKAIDO

CONTROLS

INDIVIDUAL SERIES CONTROLS

R32
residential
TOP CLASS

NEW

R32
residential
ACTIVE

R410A
residential
V-DESIGN

NEW

R410A
residential
ACTIVE

NEW

R32
R410A
commercial

NEW

R410A
SMART multi
internal unit XRV
system

HTFU XRV-K
HTBU XRV-K
HRDU XRV-K
HKEU XRV-K
HSFU XRV-K
HFIU XRV-K
HFCU XRV-K

R410A
SMART multi
internal unit XRV
system wired
remote control

HUCU XRV-K
HVDU XRV-K
HVDU-F XRV-K

INDIVIDUAL CONTROLS SERIES P

DHIR-5-6-XRV-K-P

R410A
PREMIUM
multi-unit
XRV system

NEW

DHW-5-6-XRV-K-P

R410A
PREMIUM
multi-unit XRV
system wired
remote control

NEW

OPTIONAL INDIVIDUAL CONTROLS SERIES K

DTW 3 IHXR Touch
DTWS 4 IHXR Compact
Wired remote control

- Room temperature range: 17° C~30° C.
- Mode: auto, cooling, dehumidification, heating, ventilation.
- Clock setting, timer and fan speed.
- Positioning of motorized louvres.
- Fan speed: low, medium, high or automatic.
- Reminder of filter cleaning.
- Wireless signal receiver.
- Button lock.
- ECO function, with automatic variation of the room temperature setting.
- Follow me function: built-in temperature sensor for precise control of room temperature (mod. 'S').

DTW IHXR Simply
Wired remote control

- Room temperature range: 17° C~30° C.
- Mode: cooling, heating.
- On-off.
- Fan speed: low, medium, high or automatic.
- Auto restart.
- Temperature setting.
- Immediate button 26° C.

OPTIONAL CENTRALIZED CONTROLS SERIES K AND SERIES P

DTCWT IHXR
Centralized control with weekly timer

- Max 64 indoor connectable units.
- Possibility to choose between 4 daily settings (Mon-Sun) on single or on all units: on/off, operating mode, room temperature and fan speed.
- Memory of the set functions.
- Lock of the set functions (cooling heating, keypad and remote control).
- Display of work parameters (battery and room temperature sensors).
- Display of alarm codes and protections.

DTC IHXR Touch
Centralised control

- Touch buttons.
- LCD backlighting.
- Max 64 indoor units with group or individual control.
- Temperature setting.
- Restriction of IR controls.
- Mode Lock.
- Mode setting: cooling, heating, ventilation.
- Fan speed: low, medium, high or automatic.
- On and/or off timer.
- Positioning of motorized louvres (where present).

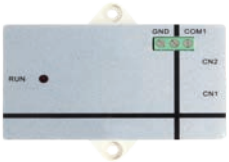
OTHER OPTIONAL ACCESSORIES

DTCO UHXR
Centralized control for external units

- RS485 interface.
- Possibility to monitor up to 8 systems, max.32 O.U., in a centralized way.
- It can show the operating parameters of the O.U.
- It can show error codes or O.U. protection codes

DTA-IHXR

- Power consumption detector.
- Digital ammeter for measuring the electrical consumptions of the XRV outdoor units.



BH-UHXRV
Badge Hotel

Interface for remote on/off with reactivation of the functions set at restart.

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

DTW Auto4 XRV
wired remote control

DTIR Auto4 XRV
infra-red remote control

CENTRALIZED CONTROL **XRV MOBILE BMS**

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

To control your system in total freedom and at any time of the day

The new centralised XRV mobile BMS control has been designed to ensure maximum 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.**

XRV mobile BMS controls up to 64 indoor units

The Hokkaido 2.0 software, which allows you to individually set each unit or groups of units, is available from Apple Store (see QR Code), or from the website www.hokkaidobms.eu for the Windows version. After downloading, connect to the "Hokkaido XRV" network and launch the app.

Wi-Fi

Installation and operation

The manual, available on www.hokkaidobms.eu, shows all the steps for correct installation. From the website menu, you can activate an account that allows you to manage centralised control through the appropriate section.

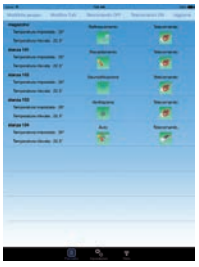
Once registered and logged in, the set-up is similar to that of applications (iOS or Windows) where it is possible to check or change centralised control settings and programming.

All the functions of the Hokkaido 2.0 app:

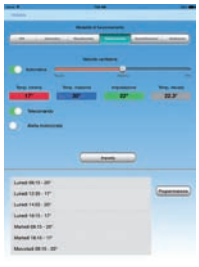
- Switching on/off - identification of indoor units.
- Operation mode.
- Maximum and minimum temperature limits.
- Fan speed - motorized louvre movement.
- Enabling/disabling the remote control.
- Up to 59 weekly programmes (with easy setting and activation/deactivation button, audible and visual alarm signaling, automatic alert via email to 3 set addresses, using the web connection).
- Password access.

Some examples of screens from iPad devices

Creation of a direct connection to the control unit or a network with a Wi-Fi router.



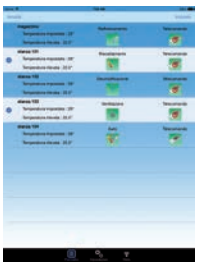
Identification of the indoor units with operating mode display and remote control activation.



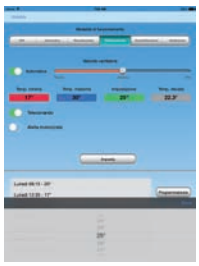
Settings on each unit:

- on/off;
- Operating mode;
- limit temperatures;
- room temperature;
- louvre activation;
- remote control activation.

Protection password setting. Management of multiple control units.



Settings of groups or single units.



Weekly operating timer settings.

KK-WIFI HOKKAIDO
Wi-Fi control

All your main air conditioning settings right from your smartphone.

Hokkaido presents the new KK-WiFi module that allows access to remote control of the air conditioner via an app that can be downloaded to a smartphone.

Thanks to the KK-WiFi app, it is possible to manage the main operating parameters from your home with a simple Wi-Fi home connection, or away from home, with a simple Internet connection.

With Kok-WiFi by Hokkaido it is possible to switch on, switch off, adjust the room temperature and the air flow of the air conditioner, the cooling or heating operation with a few "touches" on the mobile phone.

An intelligent app that controls comfort and energy savings with beneficial effect on the bill.

Wi-Fi

Home air conditioning control, even from outside your home.

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

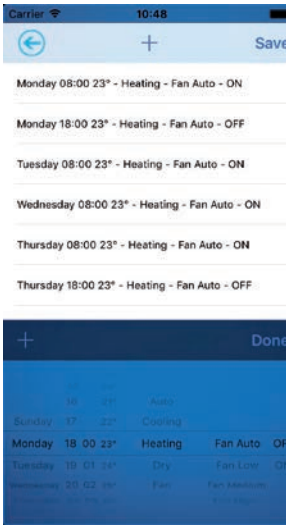
Main KK-WiFi HOKKAIDO functions

- Access security with account protected by credentials (UserID & PWD).
- Unique identification of each single unit that you want to check.
- On and off control.
- Operating mode selection.
- Adjustment of the set temperature.
- Fan speed.

Setting weekly programming cycles (up to 39).

Enabling/disabling of the local remote control.

Some examples of screens from iOs devices



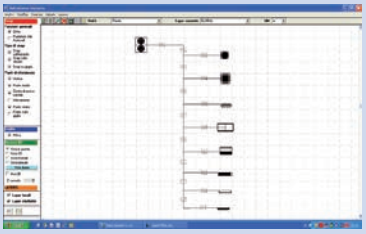
XRV DESIGN SOFTWARE

The single line diagram of the pipes can be copied directly to word or excel documents or exported into.DXF files that can be integrated with an AUTOCAD design.

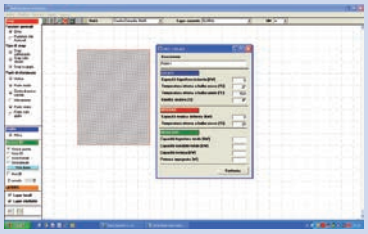
The final report is a summary of the units used, the pipes divided into the various diameters, the branch pipes, the system's electrical wiring diagrams and selected control connection diagrams.

KK Easy Solution

Multi-language software homepage

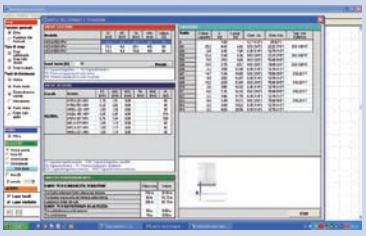


Ability to insert type and capacity of the indoor units, length of the pipes and sequence of connection.

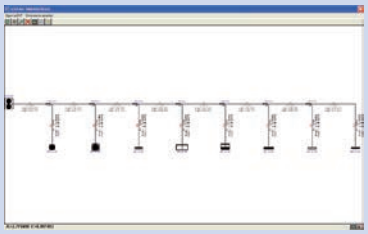


Ability to enter data for each individual room: summer and winter thermal loads, design temperature and simultaneous use factor.

Ability to import AUTOCAD files, which can be used as a basis on which to design the system.



Provides the choice of indoor and outdoor units suited to the system to be built, the sizing of pipes and branch pipes in the refrigerator system.



It allows viewing a full report on all system components.

ICON KEY

DC Inverter technology

Ensures improved efficiency and high energy savings, reaching the selected temperature parameters quickly and in a uniform manner.

Care for the environment

All products use the ecological R410A refrigerant gas, a two-component mixture free of CFCs and ozone friendly, which guarantees maximum efficiency and management economy.

Computerized defrosting

The microcomputer is able to detect decreases in the heating power of the heat pump due to the formation of frost, causing the activation of the computerised defrost function, signalled by the dedicated LED.

Operating range

Most of the outdoor units operate in heating mode with outside temperatures of up to -15° C.

Autorestart function

Automatic restart after blackout. In case of blackout, the unit resumes operation with the previously selected settings once the power supply is restored.

3-dimensional coaxial fan

The design of the 60x60 cassette models, was designed to house a special fan (3-dimensional coaxial) which by reducing the resistances to rotation, allows for uniform distribution of the air flow in the heat exchanger, ensuring comfort and well-being in the air conditioned space.

Compact design

The indoor units feature a modern and compact design, ensuring a wide versatility of application aimed at quality air conditioning.

Low sound impact

Built with innovative technologies, the wide range of indoor units is the customised solution to all environmental comfort requirements.

Outside air

Pre-cut for external air intake fitting.

Sleep function

Improves comfort during night-time operation, through reductions (in heating) or gradual increases (in cooling) of the set temperature.

Intelligent internal fan control

In heating mode:
- the fan speed during thermostatic breaks is automatically managed to avoid discomfort due to cold air currents;
- the air conditioner in preheating mode does not supply air until the exchanger has reached the programmed temperature.

Dehumidification

Easy installation

24h timer

Timer with delayed programming

3D ventilation

Bio-Filter

Remote control

Wired remote control

LEGISLATIVE DIRECTIVE ON THE PROMOTION OF THE USE OF ENERGY FROM RENEWABLE SOURCES

Building renovation 50%

Bonus for Air conditioners and Water heaters with heat pump

- This bonus is an IRPEF deduction of a quota divided into 10 annual instalments.
- The tax deduction relates to renovation work carried out on individual property units and on the common parts of condominiums.
- Can be used for installation of high efficiency air conditioners and heat pumps.
- Only available to individuals.
- Valid until 31/12/2019 with a 50% rate.
- Maximum expenditure of € 96,000 has been confirmed.
- The extension of the incentive to the works aimed at achieving energy savings and the exploitation of renewable energies (e.g. installation of heat pumps) is confirmed.
- Obligation to preserve and exhibit upon request of offices all documents relating to the property being renovated.

Also the works started starting from the 1 January 2019 and until next 31st of December 31 will therefore benefit from the tax deduction of 50% on the expenses incurred and within the limit of 96,000 euros of expense. The extension of the renovation bonus is one of the measures contained in the official text of the 2019 Budget Law, in force since 1 of January 2019.

Please refer to the **Revenue Agency Guide dedicated to the Deductions for building renovations: http://www.agenziaentrate.gov.it/.**

65% deduction for energy redevelopment – Ecobonus

With Budget Law 2019 (Law No. 145 of 30 December 2018), the 65% tax deduction for energy efficiency measures has been extended until 31 December 2019. This legislation consists of a deduction from IRPEF or from Ires and is granted when carrying out interventions that increase the level of energy efficiency of existing buildings. In general, deductions are recognized if the expenses are incurred for:

- the reduction of energy needs for heating;
- thermal improvement of the building (insulation - floors - windows, including fixtures);
- Installation of solar panels
- The replacement of winter air conditioning systems

Please refer to the Revenue Agency website for the distinction between Deduction, equal to 65% on expenses incurred from 6 June 2013 to 31 December 2019 and Deduction of 50% on expenses incurred from 1 January 2019.

Who can request the Ecobonus

The tax deduction for interventions is aimed at energy savings and redevelopment of homes and condominiums, or as provided for by Ecobonus 2019 is intended for all taxpayers, including the owners of business income, who are owners of a property on which energy redevelopment interventions are implemented. Starting from 2018, taxpayers who are unable to pay for expenses incurred in private buildings will also be able to apply for tax deductions: in practice, they are tax exempt as inferior to the minimum. In detail, taxpayers who can request a tax deduction of 65% or 75% in the case of condominium interventions are:

- Taxpayers earning business income (individuals, partnerships, corporations)
- Associations between professionals
- Public and private bodies that do not carry out commercial activities; individuals: owners of a real right on property, condominiums for interventions on common areas, tenants, those who own a property on loan, family members or cohabitants who bear costs.

To request eco-incentives, please refer to the Revenue Agency Guide dedicated to Energy Reduction Deductions.

THERMAL ACCOUNT 2.0

Heat Pumps and Water heaters with heat pump

The Thermal Account 2.0 is an incentive system aimed at increasing the efficiency of buildings and heating systems.

It is a capital incentive for people who want to improve the efficiency of their building or produce thermal energy from renewable sources, such as heat pumps. It is not a tax deduction, therefore the applicant will directly receive the incentive from the GSE, the entity responsible for the implementation and management of the system, through a dedicated Internet portal on which interested parties can request the incentive and fill and send the necessary documentation.

Overall, incentives cover up to a maximum of 40% of the cost for the replacement of the system.

Public administrations and private persons may benefit, that is individuals, condominiums and businesses either directly or through ES.CO.

Please refer to the website http://www.gse.it/it/ "Thermal Account" section for consultation of the text of the law.

HOKKAIDO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ANNI
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HOKKAIDO

HOKKAIDO srl
Via della Salute 14
40132 Bologna Italy

Ph. +39 051 4133 111
Fax +39 051 4133 146
www.hokkaido.it

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