HOKKAIDO

Experience makes technology

# GENERAL CATALOGUE

residential | commercial
project VRF | heating

2021

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Experience makes technology

# GENERAL CATALOGUE

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

Our own brand products are known for their excellent value for money and for their reliability. The extent of the range offered, before and after sales services, and direct logistics management are the strengths of this company which belongs to Termal Group.

EXPERIENCE MAKES TECHNOLOGY

# COMFORT AND **TECHNOLOGY**

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

## OVER TWENTY YEARS OF EXPERIENCE

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

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

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

## AN INTERNATIONAL BUSINESS

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

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

## OUR HEADQUARTERS

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

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

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

# OUR **MISSION**

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

## THE NETWORK

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

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

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

## TRAINING & PROFESSIONAL REFRESHER COURSES

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

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

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

All training modules involve a theoretical part and an installation/operational part. Training courses are always updated according to the new ranges, the technological evolution of products and the regulatory changes in the sector:

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

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


# SUPERBONUS **110%**

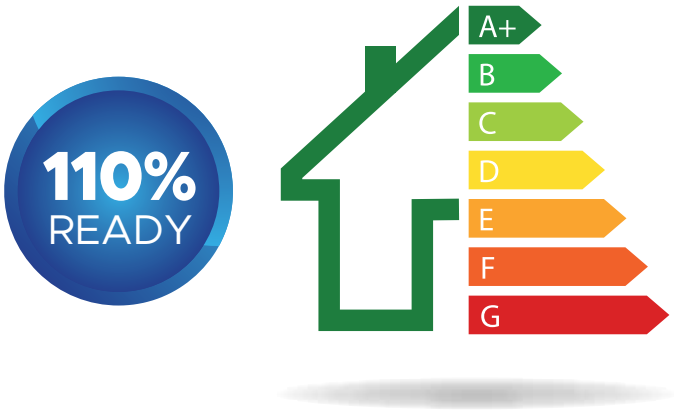
As of **1 July 2020 and until 30 June 2022**, certain types of works aimed at the energy redevelopment of buildings will be able to benefit from a **Superbonus of 110% over 5 years**.
These works include:

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

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

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

**This applies only to the Italian market.**




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

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

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

In detail, they can be listed under:

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

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

**This applies only to the Italian market.**

# TAX DEDUCTIONS **50%** AND **65% THERMAL ACCOUNT 2.0**

| | **SAVINGS** Building Renovation (50%) | **INNOVATION** Energy Redevelopment (65%) | **SUSTAINABILITY** Thermal Account 2.0 |
|---|---|---|---|
| What it is | This is a tax relief dedicated to building renovation and special maintenance activities aimed at **energy savings**, such as the installation of a heat pump. This is an IRPEF deduction which, starting from 26 June 2012, is equal to 50% of the expenses incurred. | The energy saving bonus, also known as Ecobonus, allows taxpayers to benefit from an IRPEF/IRES deduction on expenses incurred to improve the energy efficiency of their homes. In particular, **the subsidy is granted when carrying out interventions that increase the level of energy efficiency of existing buildings.** | This is a subsidy dedicated to those who want to improve the energy efficiency of their homes. In particular, this bonus **incentivises the production of energy from renewable sources** in small-scale plants. The more renewable energy is used to heat the house, the higher the contribution received. Up to 65% of the total costs incurred can be reimbursed directly into your bank account. |
| Entities | Individuals | Individuals, Apartment buildings, Business or farm income holders | Individuals, Public administrations |
| How do I get it? | IRPEF deduction | IRPEF or IRES deduction | Refund into your bank account |
| Payment time? | 10 years | 10 years | Within 60 days if < € 5,000 - from 2 to 5 years based on works if > € 5,000 |
| How it is calculated | % of total costs products + labour + material + consultancy | % of total costs products + labour + material + consultancy | Fixed by product characteristics |
| Percentage value | 50% | 65% | Based on product characteristics, up to 65%. |

| PRODUCTS | ENERGY SAVING | HIGH EFFICIENCY | RENEWABLE ENERGY |
|---|---|---|---|
| Heat pump air conditioner | ✓ | ✓ | ✓ |
| Air-water heat pump | ✓ | ✓ | ✓ |
| Water heater with heat pump | ✓ | ✓ | ✓ |

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

## HEAT PUMP INCENTIVES

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

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

## DID YOU KNOW?

✓ The Building Renovation Bonus provides incentives not only for renovation but also for the **new installation** of a heat pump: use it not only in summer but also to heat your home in the mid-seasons, save energy and contribute to protecting the environment.

✓ **Not only owners**, but also tenants or family members can benefit from the incentives, provided that they bear the costs.

**This applies only to the Italian market.**

# GENERAL INDEX



HOKKAIDO

# HOKKAIDO **NEWS**

RESIDENTIAL AND COMMERCIAL R32

## V-DESIGN PLUS

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

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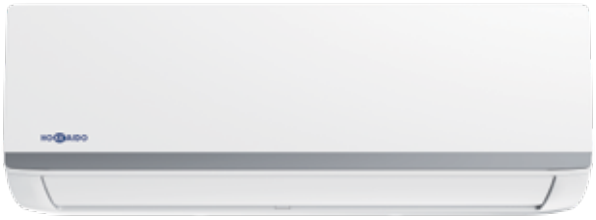

RESIDENTIAL AND COMMERCIAL R32

## INAZAMI

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

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RESIDENTIAL AND COMMERCIAL R32 / PROJECT VRF R410A

## AIR PURIFIYING DEVICE FOR DUCTED SYSTEMS CLEAN AIR UV-KIT

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

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PROJECT VRF R410A

## XRV PLUS MINI

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

PAGE 65

PROJECT VRF R410A

## XRV INDIVIDUAL

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

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PROJECT VRF R410A

## XRV PLUS HEAT RECOVERY 3-PIPE OUTDOOR UNIT

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

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PROJECT VRF R410A

## HYDROMODULE FOR DHW PRODUCTION AND HEATING

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

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HEATING

## MONOBLOC R32 AIR-WATER UNIT

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

PAGE 100

HEATING

## HP SPLIT R32

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

PAGE 106

HEATING

## FAN COIL HYDRONIC TERMINALS

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

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# RESIDENTIAL AND COMMERCIAL R32

# WELL-BEING FOR YOUR HOME

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

# RESIDENTIAL AND COMMERCIAL R32



HOKKAIDO


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

## THE ADVANTAGES OF R32

In this day and age, environmental protection is considered by both users and professionals to be of the utmost importance.

Choosing an air conditioner with the new R32 refrigerant helps achieve excellent comfort in both cooling and heating, reducing polluting emissions.

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

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

## WHY CHOOSE R32?

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

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

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

## STORAGE, STANDARDS AND DESIGN

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

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

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

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

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

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

# SIMPLIFY YOUR LIFESTYLE

## HOKKAIDO WIFI SYSTEMS

HKM-WIFI | HKM-WIFI LCAC

### ACTIVE LIFESTYLES

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

### EXPERT SAVERS

Hokkaido Wi-Fi functions help you save money and energy. Did you ever go back home and it was too hot or too cold, and you had to turn the air conditioning system on at maximum? You can use the Hokkaido App to turn on the air conditioning system while you're on your way back home to gradually heat or cool it before you get there. Same results, greater savings.

### WIFI SYSTEMS FOR ALL NEEDS

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

- **HKM-WIFI**: for residential wall-mounted indoor units.
- **HKM-WIFI LCAC**: for commercial indoor units (cassette, ducted, floor/ceiling).


Available for Android devices from the Google Play Store.

**Some examples of screens from iOs devices**

Available for iOS devices from the Apple App Store.

# WHY CHOOSE A **HOKKAIDO WALL-MOUNTED UNIT?**

## COMMON ADVANTAGES TO ALL WALL-MOUNTED MODELS

### Refrigerant leak detection

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

### Louver position memory

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

### 24H timer

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

### Sleep mode

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

### Silence mode

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

### The temperature sensor is in the remote control

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

## INAZAMI AND ACTIVE LINE PLUS MODELS

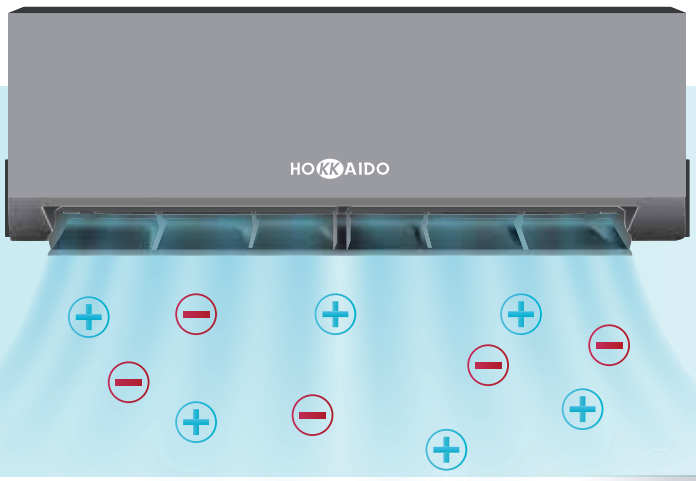
### Anti-freeze function 8°C

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

### Cold current prevention

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

# V-DESIGN PLUS
# COMFORT AND HEALTH




## Air Guardian filter

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

## Light effects

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

**Energy class in cooling**

**A+++**

**SEER value**

**8.6**

2.64 kW model

**Energy class in heating**

**A++**

**SCOP value**

**4.6**

For all models

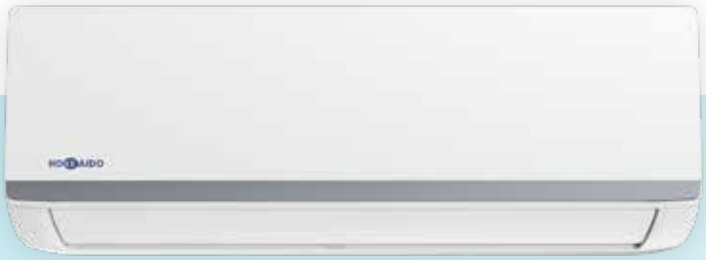
## Technology for energy saving

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

## Automatic brightness adjustment

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


# INAZAMI
# EFFICIENT AND ENERGY-SAVING

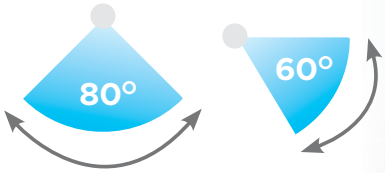



### Reliability with Golden Fin treatment

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

### 3D flow

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




**Energy class in cooling**

**A+++**

**SEER value**

**8.8**

2.64 kW model

**Energy class in heating**

**A++**

**SCOP value**

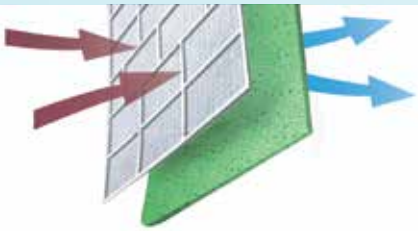
**4.6**

For all models

### Top of the range efficiency values

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

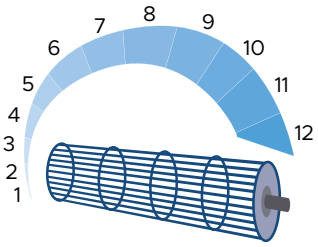
### Health Filter



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

### 12 fan speeds

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



# **R32** MONOSPLIT

| kW | | 2.60 | 3.50 | 5.30 | 7.10 | 8.80 | 10.80 | 12.30 | 14.00 | 16.00 |
|---|---|---|---|---|---|---|---|---|---|---|
| **V-DESIGN PLUS** | | | | | | | | | | |
| Wall | NEW | HKEMM ZAL | HKEMM ZAL | | | | | | | |
| **INAZAMI** | | | | | | | | | | |
| Wall | NEW | HKEMM ZAL | HKEMM ZAL | | | | | | | |
| **ACTIVE LINE** | | | | | | | | | | |
| Wall | | HKEU ZAL | HKEU ZAL-1 | HKEU ZAL | HKEU ZAL | | | | | |
| **COMMERCIAL** | | | | | | | | | | |
| Console | | | HFIU ZAL | | | | | | | |
| Compact cassette | | | HTFU ZAL | HTFU ZAL | | | | | | |
| Slim cassette 84x84 | | | | | HTBI ZA | HTBI ZA | HTBI ZA | HTBI ZA | HTBI ZA | HTBI ZA |
| Ducted with medium static pressure | | | 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 | | NEW | NEW | | | | | | | |

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

NEW

# V-DESIGN PLUS DC INVERTER

## Wall HKEMM 262-352 ZAL Dark silver

Wi-Fi
(optional)

| | SEER | SCOP |
|---|---|---|
| 2.64 kW | 8.6/A+++ | 4.6/A++ |
| 3.52 kW | 8.5/A+++ | 4.6/A++ |

Remote control
included as standard

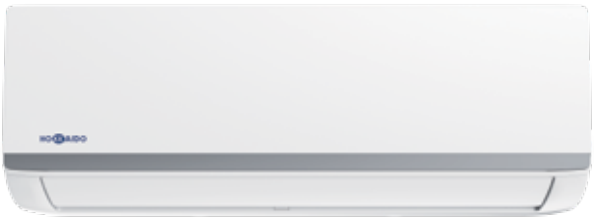
| Indoor unit model | | | HKEMM 262 ZAL | HKEMM 352 ZAL |
|---|---|---|---|---|
| Outdoor unit model | | | HCNMX 262 ZA | HCNMX 352 ZA |
| Type | | | DC-Inverter heat pump | |
| Control (included) | | | Remote control | |
| Rated capacity (T=+35°C) | Cooling | kW | 2.64 (1.03~3.22) | 3.52 (1.38~4.31) |
| Rated absorbed power (T=+35°C) | | kW | 0.61 (0.09~1.14) | 1.03 (0.13~1.65) |
| Rated energy efficiency coefficient | | EER[3] | 4.33 | 3.42 |
| Seasonal energy efficiency class | | 626/2011[1] | A+++ | A+++ |
| Seasonal energy efficiency index | | SEER[2] | 8.6 | 8.5 |
| Annual energy consumption | | kWh/a | 107 | 154 |
| Theoretical load (Pdesignc) | | kW | 2.60 | 3.50 |
| Rated capacity (T=+7°C) | Heating | kW | 2.93 (0.82~3.37) | 3.82 (1.07~4.38) |
| Rated absorbed power (T=+7°C) | | kW | 0.64 (0.11~1.08) | 1.03 (0.16~1.56) |
| Rated energy performance coefficient | | COP[3] | 4.58 | 3.71 |
| Energy efficiency class (average season) | | 626/2011[1] | A++ | A++ |
| Seasonal energy efficiency class index (average season) | | SCOP[2] | 4.6 | 4.6 |
| Annual energy consumption | | kWh/a | 775 | 775 |
| Theoretical load (Pdesignh) @-10°C | | kW | 2.30 | 2.50 |
| Operating limits (outside temperature) | Cooling | °C | -15~50 | -15~50 |
| | Heating | °C | -15~30 | -15~30 |
| **Electrical data** | | | | |
| Power supply | Outdoor unit | Ph-V-Hz | 1Ph - 220/240V - 50Hz | |
| Power cable | | Type | 3 x 2.5 mm[2] | |
| Connection wires between I.U. and O.U. | | no. | 5 | 5 |
| Absorbed current | Cooling | A | 2.66 (0.40~4.70) | 4.50 (0.60~7.20) |
| | Heating | A | 2.77 (0.48~4.70) | 4.50 (0.70~6.80) |
| Maximum current | | A | 10.50 | 10.50 |
| Maximum absorbed power | | kW | 2.20 | 2.20 |
| **Refrigerant circuit** | | | | |
| Refrigerant (GWP)[4] | | | R32 (675) | |
| Quantity refrigerant pre-load | | Kg | 0.62 | 0.62 |
| Tons of CO2 equivalent | | t | 0.418 | 0.418 |
| Diameter of refrigerant piping on liquid/gas | | mm (inches) | ø6.35(1/4") - ø9.52(3/8") | ø6.35(1/4") - ø9.52(3/8") |
| Max splitting length | | m | 25 | 25 |
| Max height difference I.U. /O.U. | | m | 10 | 10 |
| Splitting length without additional load | | m | 5 | 5 |
| Additional load | | g/m | 12 | 12 |
| **Indoor unit specifications** | | | | |
| Dimensions | LxDxH | mm | 897x182x312 | 897x182x312 |
| Net weight | | Kg | 10.5 | 10.5 |
| Sound pressure level (I.U.) | Hi/Mi/Lo | dB(A) | 37.5/32/24 | 37.5/32/24 |
| Sound power level (I.U.) | Hi | dB(A) | 51 | 51 |
| Treated air volume | Hi/Mi/Lo | m³/h | 558/478/384 | 558/478/384 |
| Motor power (Output) | | W | 50 | 50 |
| Diameter of condensate drain | | mm | 25 | 25 |
| **Specifications of outdoor units** | | | | |
| Dimensions | LxDxH | mm | 765x303x555 | 765x303x555 |
| Net weight | | Kg | 26.7 | 26.7 |
| Sound pressure level (O.U.) | | dB(A) | 54 | 54 |
| Sound power level (O.U.) | | dB(A) | 60 | 60 |
| Treated air (Max) | | m³/h | 2200 | 2200 |
| Motor power (Output) | | W | 34 | 34 |
| **Optional parts** | | | | |
| Wired remote control | | | NO | |
| Centralized control | | | NO | |
| Wi-Fi module | | | HKM-WIFI | |

1 EU Delegated Regulation No.626/2011 on the new labelling indicating the energy consumption of air conditioners. 2 EU Regulation No.206/2012 - - Value measured according to harmonised standard EN14825. 3 Value measured according to harmonised standard EN14511. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

NEW

# INAZAMI DC INVERTER

## Wall HKEMM 266-356 ZAL



Wi-Fi
(optional)

| | SEER | SCOP |
|---|---|---|
| 2.64 kW | 8.8/A+++ | 4.6/A++ |
| 3.52 kW | 8.5/A+++ | 4.6/A++ |

**22 dB(A)**
Extremely quiet

Remote control
included as standard

| Indoor unit model | | | HKEMM 266 ZAL | HKEMM 356 ZAL |
|---|---|---|---|---|
| Outdoor unit model | | | HCNMX 266 ZA | HCNMX 356 ZA |
| Type | | | DC-Inverter heat pump | |
| Control (included) | | | Remote control | |
| Rated capacity (T=+35°C) | Cooling | kW | 2.64 (1.03~3.22) | 3.52 (1.38~4.31) |
| Rated absorbed power (T=+35°C) | | kW | 0.63 (0.08~1.10) | 1.01 (0.13~1.65) |
| Rated energy efficiency coefficient | | EER[3] | 4.19 | 3.49 |
| Seasonal energy efficiency class | | 626/2011[1] | A+++ | A+++ |
| Seasonal energy efficiency index | | SEER[2] | 8.8 | 8.5 |
| Annual energy consumption | | kWh/a | 107 | 157 |
| Theoretical load (Pdesignc) | | kW | 2.60 | 3.50 |
| Rated capacity (T=+7°C) | Heating | kW | 2.93 (0.82~3.37) | 3.81 (1.01~4.38) |
| Rated absorbed power (T=+7°C) | | kW | 0.65(0.70~0.99) | 0.98(0.16~1.56) |
| Rated energy performance coefficient | | COP[3] | 4.51 | 3.89 |
| Energy efficiency class (average season) | | 626/2011[1] | A++ | A++ |
| Seasonal energy efficiency class index (average season) | | SCOP[2] | 4.6 | 4.6 |
| Annual energy consumption | | kWh/a | 744 | 797 |
| Theoretical load (Pdesignh) @-10°C | | kW | 2.40 | 2.60 |
| Operating limits (outside temperature) | Cooling | °C | -15~50 | |
| | Heating | °C | -15~24 | |
| **Electrical data** | | | | |
| Power supply | Outdoor unit | Ph-V-Hz | 1Ph - 220/240V - 50Hz | |
| Power cable | | Type | 3 x 2.5 mm[2] | |
| Connection wires between I.U. and O.U. | | no. | 5 | 5 |
| Absorbed current | Cooling | A | 2.70 (0.40~4.80) | 4.40 (0.60~7.20) |
| | Heating | A | 2.80 (0.30~4.30) | 4.20 (0.70~6.80) |
| Maximum current | | A | 10.50 | 10.50 |
| Maximum absorbed power | | kW | 2.20 | 2.20 |
| **Refrigerant circuit** | | | | |
| Refrigerant (GWP)[4] | | | R32 (675) | R32 (675) |
| Quantity refrigerant pre-load | | Kg | 0.62 | 0.62 |
| Tons of CO2 equivalent | | t | 0.419 | 0.419 |
| Diameter of refrigerant piping on liquid/gas | | mm (inches) | ø6.35(1/4") - ø9.52(3/8") | ø6.35(1/4") - ø9.52(3/8") |
| Max splitting length | | m | 25 | 25 |
| Max height difference I.U./O.U. | | m | 10 | 10 |
| Split length without additional charge | | m | 5 | 5 |
| Additional load | | g/m | 12 | 12 |
| **Indoor unit specifications** | | | | |
| Dimensions | LxDxH | mm | 835x208x295 | 835x208x295 |
| Net weight | | Kg | 8.7 | 8.7 |
| Sound pressure level (I.U.) | Hi/Mi/Lo | dB(A) | 37/31/22 | 39/33/22 |
| Sound power level (I.U.) | Hi | dB(A) | 54 | 55 |
| Treated air volume | Hi/Mi/Lo | m³/h | 510/360/300 | 520/370/310 |
| Motor power (Output) | | W | 45 | 45 |
| Diameter of condensate drain | | mm | 25 | 25 |
| **Specifications of outdoor units** | | | | |
| Dimensions | LxDxH | mm | 765x303x555 | 765x303x555 |
| Net weight | | Kg | 26.7 | 26.7 |
| Sound pressure level (O.U.) | | dB(A) | 54 | 54.5 |
| Sound power level (O.U.) | | dB(A) | 58 | 61 |
| Treated air (Max) | | m³/h | 2150 | 2200 |
| Motor power (Output) | | W | 34 | 34 |
| **Optional parts** | | | | |
| Wired remote control | | | NO | |
| Centralized control | | | NO | |
| Wi-Fi module | | | HKM-WIFI | |

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.

NEW

# ACTIVE LINE DC INVERTER

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

Wi-Fi
(optional)

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

Remote control included as standard

**25 dB(A)**
Extremely quiet
(2.64~5.28 kW)

| Indoor unit model | | | HKEU 263 ZAL | HKEU 353 ZAL-1 | HKEU 533 ZAL | HKEU 713 ZAL |
|---|---|---|---|---|---|---|
| Outdoor unit model | | | HCNMX 263 ZA | HCNMX 353 ZA | HCNI 533 ZA | HCNI 713 ZA |
| Type | | | DC-Inverter heat pump | | | |
| Control (included) | | | Remote control | | | |
| Rated capacity (T=+35°C) | Cooling | kW | 2.64 (0.91~3.40) | 3.52 (1.11~4.16) | 5.28 (1.82~6.13) | 7.03 (2.08~7.95) |
| Rated absorbed power (T=+35°C) | | kW | 0.73 (0.10~1.24) | 1.21 (0.13~1.58) | 1.54 (0.14~2.36) | 2.35 (0.16~2.96) |
| Rated energy efficiency coefficient | | EER[3] | 3.62 | 2.91 | 3.43 | 2.99 |
| Seasonal energy efficiency class | | 626/2011[1] | A++ | A++ | A++ | A++ |
| Seasonal energy efficiency index | | SEER[2] | 6.3 | 6.1 | 7.1 | 6.1 |
| Annual energy consumption | | kWh/a | 156 | 221 | 256 | 412 |
| Theoretical load (Pdesignc) | | kW | 2.80 | 3.60 | 5.20 | 7.00 |
| Rated capacity (T=+7°C) | Heating | kW | 2.93 (0.82~3.37) | 3.81 (1.08~4.22) | 5.57 (1.38~6.74) | 7.33 (1.61~8.79) |
| Rated absorbed power (T=+7°C) | | kW | 0.73 (0.12~1.20) | 1.09 (0.10~1.68) | 1.48 (0.20~2.41) | 2.04 (0.26~3.14) |
| Rated energy performance coefficient | | COP[3] | 4.01 | 3.50 | 3.76 | 3.59 |
| Energy efficiency class (average season) | | 626/2011[1] | A+ | A+ | A+ | A+ |
| Seasonal energy efficiency class index (average season) | | SCOP[2] | 4.0 | 4.0 | 4.0 | 4.0 |
| Annual energy consumption | | kWh/a | 910 | 945 | 1435 | 1697 |
| Theoretical load (Pdesignh) @-10°C | | kW | 2.60 | 2.70 | 4.10 | 4.80 |
| Operating limits (outside temperature) | Cooling | °C | -15~50 | | | |
| | Heating | °C | -15~30 | | | |
| **Electrical data** | | | | | | |
| Power supply | Outdoor unit | Ph-V-Hz | 1Ph - 220/240V - 50Hz | | | |
| Power cable | | Type | 3 x 2.5 mm² | | 3 x 4 mm² | |
| Connection wires between I.U. and O.U. | | no. | 5 | 5 | 5 | 5 |
| Absorbed current | Cooling | A | 3.20 (0.40~5.40) | 5.30 (0.50~6.90) | 6.90 (0.60~10.30) | 10.20 (0.70~13.30) |
| | Heating | A | 3.20 (0.50~5.20) | 4.70 (0.40~6.90) | 6.40 (0.90~10.50) | 10.20 (1.10~13.30) |
| Maximum current | | A | 10 | 10 | 13.5 | 17.5 |
| Maximum absorbed power | | kW | 2.15 | 2.15 | 2.95 | 3.85 |
| **Refrigerant circuit** | | | | | | |
| Refrigerant (GWP)[4] | | | R32 (675) | R32 (675) | R32 (675) | R32 (675) |
| Quantity refrigerant pre-load | | Kg | 0.55 | 0.55 | 1 | 1.6 |
| Tons of CO2 equivalent | | t | 0.371 | 0.371 | 0.675 | 1.080 |
| Diameter of refrigerant piping on liquid/gas | | mm (inches) | ø6.35(1/4") - ø9.52(3/8") | ø6.35(1/4") - ø9.52(3/8") | ø6.35(1/4") - ø12.74(1/2") | ø9.52 (3/8") - ø15.88 (5/8") |
| Max splitting length | | m | 25 | 25 | 30 | 50 |
| Max height difference I.U./O.U. | | m | 10 | 10 | 20 | 25 |
| Split length without additional charge | | m | 5 | 5 | 5 | 5 |
| Additional load | | g/m | 12 | 12 | 12 | 24 |
| **Indoor unit specifications** | | | | | | |
| Dimensions | LxDxH | mm | 805x194x285 | 805x194x285 | 957x213x302 | 1040x220x327 |
| Net weight | | Kg | 7.6 | 7.6 | 10 | 12.3 |
| Sound pressure level (I.U.) | Hi/Mi/Lo | dB(A) | 38.5/32/25 | 40.5/34.5/25 | 44/37/30/25 | 44.5/42/34.5/28 |
| Sound power level (I.U.) | Hi | dB(A) | 54 | 55 | 55 | 59 |
| Treated air volume | Hi/Mi/Lo | m³/h | 466/360/325 | 540/430/314 | 840/680/540 | 980/817/662 |
| Motor power (Output) | | W | 40 | 40 | 36 | 58 |
| Diameter of condensate drain | | mm | - | - | - | - |
| **Specifications of outdoor units** | | | | | | |
| Dimensions | LxDxH | mm | 720x270x495 | 720x270x495 | 800x333x554 | 845x363x702 |
| Net weight | | Kg | 23.2 | 23.2 | 34 | 51.5 |
| Sound pressure level (O.U.) | | dB(A) | 55.5 | 56 | 56 | 59.5 |
| Sound power level (O.U.) | | dB(A) | 62 | 63 | 61 | 67 |
| Treated air (Max) | | m³/h | 1750 | 1800 | 2500 | 3000 |
| Motor power (Output) | | W | - | - | 63 | 115 |
| **Optional parts** | | | | | | |
| Wired remote control | | | NO | | | |
| Centralized control | | | NO | | | |
| Wi-Fi module | | | HKM-WIFI | | | |

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.

# CONSOLE

## HFIU 350 ZAL

| | SEER | SCOP |
|---|---|---|
| 3.52 kW | 7.7/A++ | 4.3/A+ |

4 air distribution inlets for increased system energy efficiency

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

Anti-formaldehyde filter supplied

Double air distribution mode

Remote control included as standard

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

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# COMPACT CASSETTE 60x60

HTFU 350-530 ZAL

Wi-Fi (optional)

TFP 200 IHRS panel with 360° air diffusion

Remote control included as standard

| | SEER | SCOP |
|---|---|---|
| 3.52 kW | 7.8/A++ | 4.6/A++ |
| 5.28 kW | 6.1/A++ | 4.0/A+ |

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

Pre-set for external air inlet

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

| Indoor unit model | | | HTFU 350 ZAL | HTFU 530 ZAL |
|---|---|---|---|---|
| Outdoor unit model | | | HCKI 350 ZA | HCKI 530 ZA |
| Type | | | FULL DC-Inverter heat pump | |
| Control (included) | | | Remote control | |
| Rated capacity (T=+35°C) | Cooling | kW | 3.52 (1.52~5.28) | 5.28 (2.90~5.74) |
| Rated absorbed power (T=+35°C) | | kW | 0.85 (0.35~1.60) | 1.63 (0.72~1.86) |
| Rated energy efficiency coefficient | | EER[3] | 4.14 | 3.24 |
| Seasonal energy efficiency class | | 626/2011[1] | A++ | A++ |
| Seasonal energy efficiency index | | SEER[2] | 7.8 | 6.1 |
| Annual energy consumption | | kWh/a | 157 | 304 |
| Theoretical load (Pdesignc) | | 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 (average season) | | 626/2011[1] | A++ | A+ |
| Seasonal energy efficiency class index (average season) | | SCOP[2] | 4.6 | 4.0 |
| Annual energy consumption | | kWh/a | 959 | 1470 |
| Theoretical load (Pdesignh) @-10° C | | kW | 3.1 | 4.2 |
| Operating limits (outside temperature) | Cooling | °C | -15~50 | -15~50 |
| | Heating | °C | -15~24 | -15~24 |
| **Electrical data** | | | | |
| Power supply | Outdoor unit | Ph-V-Hz | 1-220~240V-50HZ | 1-220~240V-50HZ |
| Power cable | | Type | 3 x 2.5 mm² | 3 x 4.0 mm² |
| Connection wires between I.U. and O.U. | | no. | 5 | 4 |
| Rated absorbed current (min~max) | Cooling | A | 3.80 (1.60~7.10) | 7.20 (3.20~8.20) |
| | Heating | A | 5.00 (1.40~7.90) | 6.40 (3.10~8.50) |
| Maximum current | | A | 10 | 13.5 |
| Maximum absorbed power | | kW | 2.35 | 2.95 |
| **Refrigerant circuit** | | | | |
| Refrigerant (GWP)[4] | | | R32 (675) | R32 (675) |
| Quantity refrigerant pre-load | | Kg | 0.87 | 1.15 |
| Tons of CO2 equivalent | | t | 0.587 | 0.776 |
| Diameter of refrigerant piping on liquid/gas | | mm (inches) | ø6.35(1/4") - ø9.52(3/8") | ø6.35(1/4") - ø12.74(1/2") |
| Max splitting length | | m | 25 | 30 |
| Max height difference I.U./O.U. | | m | 10 | 20 |
| Splitting length without additional load | | m | 5 | 5 |
| Additional load | | g/m | 12 | 12 |
| **Indoor unit specifications** | | | | |
| Dimensions | LxDxH | mm | 570x570x260 | 570x570x260 |
| Net weight | | Kg | 16.2 | 16.2 |
| Sound pressure level (I.U.) | Hi/Mi/Lo | dB(A) | 41/36/33 | 42.5/39/35.5 |
| Sound power level (I.U.) | Hi | dB(A) | 51 | 56 |
| Treated air volume | Hi/Mi/Lo | 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 |
| Treated 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 | | | HKM-WIFI LCAC | |

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# SLIM CASSETTE 84x84

HTBI 710-1080-1400-1600 ZA

Wi-Fi
(optional)

| | SEER | SCOP |
|---|---|---|
| 7.03 kW | 6.1/A++ | 4.0/A+ |
| 8.79 kW | 6.5/A++ | 3.8/A |
| 11.40 kW | 5.9/A+ | 3.9/A |
| 10.55 kW | 6.1/A++ | 4.0/A+ |
| 14.07 kW | 6.1/A++ | 4.0/A+ |
| 15.53 kW | 6.1/A++ | 4.0/A+ |

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

Pre-set for external air inlet

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

Remote control
included as standard

| Indoor unit model | | | HTBI 710 ZA | HTBI 1080 ZA | HTBI 1400 ZA | HTBI 1080 ZA | HTBI 1400 ZA | HTBI 1600 ZA |
|---|---|---|---|---|---|---|---|---|
| Outdoor unit model | | | HCKI 710 ZA | HCKI 880 ZA | HCKI 1200 ZA | HCSI 1080 ZA | HCSI 1400 ZA | HCSI 1600 ZA |
| Type | | | FULL DC-Inverter heat pump | | | | | |
| Control (included) | | | Remote control | | | | | |
| Rated capacity (T=+35°C) | | 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 (average season) | Heating | 626/2011[1] | A+ | A | A | A+ | A+ | A+ |
| Seasonal energy efficiency class index (average season) | | SCOP[2] | 4.0 | 3.8 | 3.9 | 4.0 | 4.0 | 4.0 |
| Annual energy consumption | | kWh/a | 1890 | 2653 | 3303 | 2835 | 3920 | 4165 |
| Theoretical load (Pdesignh) @-10° C | | kW | 5.4 | 7.2 | 9.2 | 8.1 | 11.2 | 11.9 |
| Operating limits (outside temperature) | Cooling | °C | -15~50 | | | | | |
| | Heating | °C | -15~24 | | | | | |
| **Electrical data** | | | | | | | | |
| Power supply | Outdoor unit | Ph-V-Hz | 1-220~240V-50HZ | | | 3-380~415V-50HZ | | |
| Power cable | | Type | 3 x 4 mm² | 3 x 4 mm² | 3 x 6 mm² | 5 x 2.5 mm² | 5 x 2.5 mm² | 5 x 4 mm² |
| Connection wires between I.U. and O.U. | | no. | 5 (2 of which shielded) | | | | | |
| Rated absorbed current (min~max) | Cooling | A | 9.50 (2.10- 12.40) | 12.90 (3.90~18.20) | 16.50 (5.30~20.80) | 6.60 (3.90~8.20) | 8.30 (1.80~9.30) | 9.80 (1.80~11.60) |
| | Heating | A | 8.90 (2.20- 12.50) | 10.70 (3.20~18.30) | 16.40 (4.50~19.90) | 5.00 (3.20~8.30) | 8.20 (1.60~8.90) | 9.90 (1.60~11.20) |
| Maximum current | | A | 13.5 | 16.5 | 22.5 | 10 | 11.2 | 14 |
| Maximum absorbed power | | kW | 2.95 | 3.60 | 4.80 | 5.60 | 6.20 | 7.50 |
| **Refrigerant circuit** | | | | | | | | |
| 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 |
| Treated air volume | Hi/Mi/Lo | m³/h | 1378/1200/1032 | 1775/1620/1438 | 1715/1568/1381 | 1775/1620/1438 | 1715/1568/1381 | 1970/1737/1537 |
| Motor power (Output) | | W | 141 | 141 | 141 | 141 | 141 | 232 |
| Outside diameter of condensate drain | | mm | ø32 | ø32 | ø32 | ø32 | ø32 | ø32 |
| **Specifications of outdoor units** | | | | | | | | |
| Dimensions | LxDxH | mm | 845x363x702 | 946x410x810 | 946x410x810 | 946x410x810 | 952x415x1333 | 952x415x1333 |
| Net weight | | Kg | 66.8 | 56.9 | 73.9 | 81.5 | 106.7 | 111.3 |
| Sound pressure level (O.U.) | | dB(A) | 62 | 60.5 | 67 | 64 | 66 | 66 |
| Sound power level (O.U.) | | dB(A) | 65 | 69 | 74 | 68 | 72 | 74 |
| Treated air (Max) | | m³/h | 2700 | 3600 | 3800 | 4000 | 7500 | 7500 |
| Motor power (Output) | | no. x W | 1 x 115 | 1 x 150 | 1 x 150 | 1 x 150 | 2 x 126 | 2 x 126 |
| **Accessories** | | | | | | | | |
| **Decorative panel** | | | TBP 710 ZA | | | | | |
| Dimensions | LxDxH | mm | 950x950x55 | | | | | |
| Net weight | | Kg | 5 | | | | | |
| **Optional parts** | | | | | | | | |
| Wired remote control | | | YES | | | | | |
| Manual centralized control | | | YES | | | | | |
| Wi-Fi centralized control | | | HKM-WIFI LCAC | | | | | |

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.

NEW

# CLEAN AIR UV-KIT
# AIR PURIFIYING DEVICE FOR DUCTED SYSTEMS

TMS-UV02
TMS-UV04

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

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

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

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

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

This product is therefore capable of:

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

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

**TMS-UV02**: for models HUCU 350~530 ZAL; HUCI 710~1080 ZA.
**TMS-UV04**: for models HUCI 1400~1600 ZA.

# DUCTED
# WITH MEDIUM STATIC PRESSURE

## HUCU 350-530 ZAL

Wi-Fi
(optional)

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

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

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

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

Compatible with systems AIRZONE

Remote control
included as standard

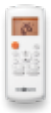
| Indoor unit model | | | HUCU 350 ZAL | HUCU 530 ZAL |
|---|---|---|---|---|
| Outdoor unit model | | | HCKI 350 ZA | HCKI 530 ZA |
| Type | | | FULL DC-Inverter heat pump | |
| Control (included) | | | Remote control | |
| Rated capacity (T=+35°C) | Cooling | kW | 3.51 (1.49~4.75) | 5.28 (2.55~5.69) |
| Rated absorbed power (T=+35°C) | | kW | 0.95 (0.35~1.62) | 1.63 (0.71~1.90) |
| Rated energy efficiency coefficient | | EER[3] | 3.69 | 3.24 |
| Seasonal energy efficiency class | | 626/2011[1] | A++ | A++ |
| Seasonal energy efficiency index | | SEER[2] | 6.5 | 6.1 |
| Annual energy consumption | | kWh/a | 188 | 304 |
| Theoretical load (Pdesignc) | | kW | 3.5 | 5.3 |
| Rated capacity (T=+7°C) | Heating | kW | 4.10 (0.97~5.63) | 5.86 (2.20~6.15) |
| Rated absorbed power (T=+7°C) | | kW | 1.10 (0.35~2.05) | 1.58 (0.74~1.76) |
| Rated energy performance coefficient | | COP[3] | 3.73 | 3.71 |
| Energy efficiency class (average season) | | 626/2011[1] | A+ | A+ |
| Seasonal energy efficiency class index (average season) | | SCOP[2] | 4.0 | 4.0 |
| Annual energy consumption | | kWh/a | 1120 | 1512 |
| Theoretical load (Pdesignh) @-10° C | | kW | 3.2 | 4.3 |
| Operating limits (outside temperature) | Cooling | °C | -15~50 | |
| | Heating | °C | -15~24 | |
| **Electrical data** | | | | |
| Power supply | Outdoor unit | Ph-V-Hz | 1-220~240V-50HZ | |
| Power cable | | Type | 3 x 2.5 mm² | 3 x 4 mm² |
| Connection wires between I.U. and O.U. | | no. | 5 | 4 |
| Rated absorbed current (min~max) | Cooling | A | 4.20 (1.70~7.20) | 7.20 (3.20~8.30) |
| | Heating | A | 5.00 (1.70~9.00) | 7.00 (3.30~7.70) |
| Maximum current | | A | 10 | 13.5 |
| Maximum absorbed power | | kW | 2.35 | 2.95 |
| **Refrigerant circuit** | | | | |
| 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 |
| Treated air volume | Hi/Mi/Lo | m³/h | 600/480/300 | 880/650/350 |
| Fan static pressure | Std/Max | Pa | 25/60 | 25/100 |
| Motor power (Output) | | W | 130 | 90 |
| Outside diameter of condensate drain | | mm | ø25 | ø25 |
| **Specifications of outdoor units** | | | | |
| Dimensions | LxDxH | mm | 800x333x554 | 800x333x554 |
| Net weight | | Kg | 34.7 | 33.7 |
| Sound pressure level (O.U.) | | dB(A) | 55.5 | 55 |
| Sound power level (O.U.) | | dB(A) | 63 | 63 |
| Treated air (Max) | | m³/h | 2000 | 2000 |
| Motor power (Output) | | no. x W | 1 x 40 | 1 x 57 |
| **Optional parts** | | | | |
| Wired remote control | | | YES | |
| Manual centralized control | | | YES | |
| Wi-Fi centralized control | | | HKM-WIFI LCAC | |

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.

# DUCTED
# WITH MEDIUM STATIC PRESSURE

HUCI 710-1080-1400-1600 ZA

Wi-Fi
(optional)



Remote control
included as standard

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

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

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

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

Compatible with systems AIRZONE


| Indoor unit model | | | HUCI 710 ZA | HUCI 1080 ZA | HUCI 1400 ZA | HUCI 1080 ZA | HUCI 1400 ZA | HUCI 1600 ZA |
|---|---|---|---|---|---|---|---|---|
| **Outdoor unit model** | | | HCKI 710 ZA | HCKI 880 ZA | HCKI 1200 ZA | HCSI 1080 ZA | HCSI 1400 ZA | HCSI 1600 ZA |
| **Type** | | | FULL DC-Inverter heat pump | | | | | |
| Control (included) | | | Remote control | | | | | |
| Rated capacity (T=+35°C) | Cooling | kW | 7.03 (3.28~8.16) | 8.79 (2.23~9.82) | 12.31 (2.58~12.31) | 10.55 (4.04~12.02) | 14.07 (4.26~15.19) | 15.24 (5.86~17.29) |
| Rated absorbed power (T=+35°C) | | kW | 2.19 (0.48~2.85) | 2.60 (0.19~3.35) | 3.65 (0.23~4.35) | 4.10 (0.89~4.98) | 5.15 (1.17~5.70) | 5.42 (1.27~6.65) |
| Rated energy efficiency coefficient | | EER[3] | 3.21 | 3.38 | 3.37 | 2.57 | 2.73 | 2.81 |
| Seasonal energy efficiency class | | 626/2011[1] | A++ | A++ | A++ | A++ | A++ | A++ |
| Seasonal energy efficiency index | | SEER[2] | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| Annual energy consumption | | kWh/a | 402 | 505 | 711 | 602 | 808 | 878 |
| Theoretical load (Pdesignc) | | kW | 7.0 | 8.8 | 12.4 | 10.5 | 14.0 | 15.3 |
| Rated capacity (T=+7°C) | Heating | kW | 7.62 (2.72~8.72) | 9.38 (2.70~11.14) | 13.48 (2.05~14.27) | 11.14 (2.81~13.19) | 16.12 (3.7~18.02) | 18.17 (4.69~20.52) |
| Rated absorbed power (T=+7°C) | | kW | 2.05 (0.50~2.88) | 2.30 (0.43~2.90) | 3.68 (0.34~4.29) | 3.00 (0.78~4.67) | 4.28 (0.95~5.82) | 5.33 (1.04~6.03) |
| Rated energy performance coefficient | | COP[3] | 3.72 | 4.08 | 3.66 | 3.71 | 3.77 | 3.41 |
| Energy efficiency class (average season) | | 626/2011[1] | A+ | A+ | A+ | A+ | A+ | A+ |
| Seasonal energy efficiency class index (average season) | | SCOP[2] | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Annual energy consumption | | kWh/a | 1911 | 2800 | 3360 | 2968 | 4263 | 4375 |
| Theoretical load (Pdesignh) @-10° C | | kW | 5.4 | 8.0 | 9.6 | 8.4 | 12.1 | 12.5 |
| Operating limits (outside temperature) | Cooling | °C | -15~50 | | | | | |
| | Heating | °C | -15~24 | | | | | |
| **Electrical data** | | | | | | | | |
| Power supply | Outdoor unit | Ph-V-Hz | 1-220~240V-50HZ | | | 3-380~415V-50HZ | | |
| Power cable | | Type | 3 x 4 mm² | 3 x 4 mm² | 3 x 6 mm² | 5 x 2.5 mm² | 5 x 2.5 mm² | 5 x 4 mm² |
| Connection wires between I.U. and O.U. | | no. | 5 (2 of which shielded) | | | | | |
| Rated absorbed current (min~max) | Cooling | A | 9.50 (2.10~12.40) | 11.80 (2.00~15.50) | 16.00 (1.50~19.10) | 6.50 (1.40~8.20) | 8.30 (1.80~9.40) | 8.90 (2.00~11.60) |
| | Heating | A | 8.90 (2.20~12.50) | 10.60 (3.00~13.50) | 16.20 (1.90~18.80) | 4.70 (1.30~7.40) | 6.80 (1.50~9.20) | 8.80 (1.60~10.50) |
| Maximum current | | A | 13.5 | 16.5 | 22.5 | 10 | 11.2 | 14 |
| Maximum absorbed power | | kW | 2.95 | 3.60 | 4.80 | 5.60 | 6.20 | 7.50 |
| **Refrigerant circuit** | | | | | | | | |
| Refrigerant (GWP)[4] | | | R32 (675) | | | | | |
| Quantity refrigerant pre-load | | Kg | 1.5 | 2 | 2.8 | 2.4 | 2.8 | 2.95 |
| Tons of CO2 equivalent | | t | 1.013 | 1.350 | 1.890 | 1.620 | 1.890 | 1.991 |
| Diameter of refrigerant piping on liquid/gas | | mm (inches) | ø9.52(3/8") - ø15.88(5/8") | | | | | |
| Max. splitting length | | m | 50 | 50 | 50 | 65 | 65 | 65 |
| Max height difference I.U./O.U. | | m | 25 | 25 | 30 | 30 | 30 | 30 |
| Splitting length without additional load | | m | 5 | 5 | 5 | 5 | 5 | 5 |
| Additional load | | g/m | 24 | 24 | 24 | 24 | 24 | 24 |
| **Indoor unit specifications** | | | | | | | | |
| Dimensions | LxDxH | mm | 1100x774x249 | 1360x774x249 | 1200x874x300 | 1360x774x249 | 1200x874x300 | 1200x874x300 |
| Net weight | | Kg | 31.5 | 40.5 | 47.6 | 40.5 | 47.6 | 47.6 |
| Sound pressure level (I.U.) | Hi/Mi/Lo | dB(A) | 42/40/38 | 47/43/40 | 51/50/48 | 47/43/40 | 51/50/48 | 54/52/51 |
| Sound power level (I.U.) | Hi | dB(A) | 62 | 63 | 68 | 63 | 68 | 71 |
| Treated air volume | Hi/Mi/Lo | m³/h | 1248/1054/839 | 1400/1150/750 | 2400/2040/1680 | 1400/1150/750 | 2400/2040/1680 | 2600/2210/1820 |
| Fan static pressure | Std/Max | Pa | 25/160 | 37/160 | 50/160 | 37/160 | 50/160 | 50/160 |
| Motor power (Output) | | W | 90 | 250 | 560 | 250 | 560 | 560 |
| Outside diameter of condensate drain | | mm | ø25 | ø25 | ø25 | ø25 | ø25 | ø25 |
| **Specifications of outdoor units** | | | | | | | | |
| Dimensions | LxDxH | mm | 845x363x702 | 946x410x810 | 946x410x810 | 946x410x810 | 952x415x1333 | 952x415x1333 |
| Net weight | | Kg | 66.8 | 56.9 | 73.9 | 81.5 | 106.7 | 111.3 |
| Sound pressure level (O.U.) | | dB(A) | 62 | 60.5 | 67 | 64 | 66 | 66 |
| Sound power level (O.U.) | | dB(A) | 65 | 69 | 74 | 68 | 72 | 74 |
| Treated air (Max) | | 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 | | | HKM-WIFI LCAC | | | | | |

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

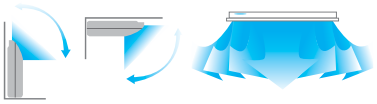
HSFU 530 ZAL - HSFI 710-1080-1400-1600 ZA1

Wi-Fi
(optional)

| | SEER | SCOP |
|---|---|---|
| 5.28 kW | 6.1/A++ | 4.0/A+ |
| 7.03 kW | 6.1/A++ | 4.0/A+ |
| 8.79 kW | 7.0/A++ | 3.8/A |
| 11.70 kW | 7.0/A++ | 3.8/A |
| 10.55 kW | 6.1/A++ | 4.0/A+ |
| 14.07 kW | 6.1/A++ | 4.0/A+ |
| 15.83 kW | 6.1/A++ | 4.0/A+ |

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

Excellent installation flexibility



Remote control included as standard


| 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 (included) | | | Remote control | | | | | | |
| Rated capacity (T=+35°C) | Cooling | kW | 5.28 (2.71~5.57) | 7.03 (3.22~8.29) | 8.79 (4.04~10.02) | 11.70 (4.96~13.11) | 10.55 (3.93~12.02) | 14.07 (4.96~15.11) | 15.83 (5.28~17.00) |
| Rated absorbed power (T=+35°C) | Cooling | 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 | Cooling | 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 | Cooling | SEER[2] | 6.1 | 6.1 | 7.0 | 7.0 | 6.1 | 6.1 | 6.1 |
| Annual energy consumption | Cooling | kWh/a | 304 | 402 | 440 | 590 | 602 | 803 | 916 |
| Theoretical load (Pdesignc) | Cooling | kW | 5.3 | 7.0 | 8.8 | 11.8 | 10.5 | 14.0 | 15.9 |
| Rated capacity (T=+7°C) | Heating | kW | 5.57 (2.42~6.30) | 7.62 (2.72~8.65) | 9.82 (2.94~11.48) | 12.90 (3.81~14.96) | 11.14 (2.81~13.95) | 16.12 (3.81~18.07) | 18.17 (4.4~19.64) |
| Rated absorbed power (T=+7°C) | Heating | 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 | Heating | COP[3] | 3.71 | 3.72 | 4.14 | 3.38 | 3.71 | 3.19 | 3.01 |
| Energy efficiency class (average season) | Heating | 626/2011[1] | A+ | A+ | A | A | A+ | A+ | A+ |
| Seasonal energy efficiency class index (average season) | Heating | SCOP[2] | 4.0 | 4.0 | 3.8 | 3.8 | 4.0 | 4.0 | 4.0 |
| Annual energy consumption | Heating | kWh/a | 1435 | 1890 | 2689 | 3398 | 3150 | 4025 | 4165 |
| Theoretical load (Pdesignh) @-10° C | Heating | kW | 4.1 | 5.4 | 7.3 | 9.3 | 9.0 | 11.5 | 11.9 |
| Operating limits (outside temperature) | Cooling | °C | -15~50 | -15~50 | -15~50 | -15~50 | -15~50 | -15~50 | -15~50 |
| | Heating | °C | -15~24 | -15~24 | -15~24 | -15~24 | -15~24 | -15~24 | -15~24 |
| **Electrical data** | | | | | | | | | |
| Power supply | Outdoor unit | Ph-V-Hz | 1-220~240V-50HZ | | | | 3-380~415V-50HZ | | |
| Power cable | | Type | 3 x 4 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 |
| Connection wires between I.U. and O.U. | | no. | 4 | 5 (2 of which shielded) | | | | | |
| Rated absorbed current (min~max) | Cooling | A | 7.20 (3.20~8.20) | 10.00 (2.10~13.10) | 11.80 (3.90~17.40) | 16.30 (5.60~20.50) | 5.80 (1.20~8.20) | 9.10 (1.80~9.80) | 10.50 (1.90~11.30) |
| | Heating | A | 6.60 (2.70~7.30) | 9.50 (2.20~12.70) | 10.60 (3.20~17.40) | 16.70 (5.60~18.30) | 4.800 (1.20~8.30) | 8.10 (1.60~10.30) | 9.90 (1.60~11.50) |
| Maximum current | | A | 13.5 | 13.5 | 16.5 | 22.5 | 10 | 11.2 | 14 |
| Maximum absorbed power | | kW | 2.95 | 2.95 | 3.60 | 4.80 | 5.60 | 6.20 | 7.50 |
| **Refrigerant circuit** | | | | | | | | | |
| Refrigerant (GWP)[4] | | | R32 (675) | | | | | | |
| Quantity refrigerant pre-load | | Kg | 1.15 | 1.5 | 2 | 2.8 | 2.4 | 2.8 | 2.95 |
| Tons of CO2 equivalent | | t | 0.776 | 1.013 | 1.350 | 1.890 | 1.620 | 1.890 | 1.991 |
| Diameter of refrigerant piping on liquid/gas | | mm (inches) | ø6.35(1/4") - ø12.74(1/2") | ø9.52(3/8") - ø15.88(5/8") | | | | | |
| Max. splitting length | | m | 30 | 50 | 50 | 50 | 65 | 65 | 65 |
| Max height difference I.U./O.U. | | m | 20 | 25 | 25 | 30 | 30 | 30 | 30 |
| Splitting length without additional load | | m | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Additional load | | g/m | 12 | 24 | 24 | 24 | 24 | 24 | 24 |
| **Indoor unit specifications** | | | | | | | | | |
| Dimensions | LxDxH | mm | 1068x675x235 | 1068x675x235 | 1650x675x235 | 1650x675x235 | 1650x675x235 | 1650x675x235 | 1650x675x235 |
| Net weight | | Kg | 26.8 | 28 | 39 | 41.2 | 39 | 41.2 | 41.4 |
| Sound pressure level (I.U.) | Hi/Mi/Lo | dB(A) | 41.5/38.5/34.5 | 50/46/41 | 51/47/42 | 54/50/46 | 51/47/42 | 54/50/46 | 54/47/42 |
| Sound power level (I.U.) | Hi | dB(A) | 58 | 61 | 62 | 67 | 59 | 66 | 69 |
| Treated air volume | Hi/Mi/Lo | m³/h | 880/760/650 | 1208/1066/853 | 2160/1844/1431 | 2329/1930/1417 | 2160/1844/1431 | 2329/1930/1417 | 2454/1834/1426 |
| Motor power (Output) | | no. x W | 1 x 96 | 1 x 100 | 2 x 96 | 2 x 96 | 2 x 96 | 2 x 96 | 2 x 90 |
| Outside diameter of condensate drain | | mm | ø25 | ø25 | ø25 | ø25 | ø25 | ø25 | ø25 |
| **Specifications of outdoor units** | | | | | | | | | |
| Dimensions | LxDxH | mm | 800x333x554 | 845x363x702 | 946x410x810 | 946x410x810 | 946x410x810 | 952x415x1333 | 952x415x1333 |
| Net weight | | Kg | 33.7 | 66.8 | 56.9 | 73.9 | 81.5 | 106.7 | 111.3 |
| Sound pressure level (O.U.) | | dB(A) | 55 | 62 | 60.5 | 67 | 64 | 66 | 66 |
| Sound power level (O.U.) | | dB(A) | 63 | 65 | 69 | 74 | 68 | 72 | 74 |
| Treated air (Max) | | m³/h | 2000 | 2700 | 3600 | 3800 | 4000 | 7500 | 7500 |
| Motor power (Output) | | no. x W | 1 x 57 | 1 x 115 | 1 x 150 | 1 x 150 | 1 x 150 | 2 x 126 | 2 x 126 |
| **Optional parts** | | | | | | | | | |
| Wired remote control | | | YES | | | | | | |
| Manual centralized control | | | YES | | | | | | |
| Wi-Fi centralized control | | | HKM-WIFI LCAC | | | | | | |

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

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

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

# TWIN COMBINATIONS

| Indoor unit model | | | 2 x HSFI 710 ZA1 | 2 x HSFI 1080 ZA1 |
|---|---|---|---|---|
| Outdoor unit model | | | HCSI 1400 ZA | HCSI 1600 ZA |
| Type | | | FULL DC-Inverter heat pump | |
| Control (included) | | | Remote control | |
| Rated capacity (T=+35°C) | Cooling | kW | 14.07 (4.96~15.12) | 15.83 (5.28~17.00) |
| Rated absorbed power (T=+35°C) | | kW | 5.50 (1.16~5.70) | 6.06 (1.23~6.30) |
| Rated energy efficiency coefficient | | EER[3] | 2.56 | 2.61 |
| Seasonal energy efficiency class | | 626/2011[1] | A++ | A++ |
| Seasonal energy efficiency index | | SEER[2] | 6.1 | 6.1 |
| Annual energy consumption | | kWh/a | 815 | 912 |
| Theoretical load (Pdesignc) | | 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 (average season) | | 626/2011[1] | A+ | A+ |
| Seasonal energy efficiency class index (average season) | | SCOP[2] | 4.0 | 4.0 |
| Annual energy consumption | | kWh/a | 3885 | 4165 |
| Theoretical load (Pdesignh) @-10° C | | kW | 11.1 | 11.9 |
| Operating limits (outside temperature) | Cooling | °C | -15~50 | -15~50 |
| | Heating | °C | -15~24 | -15~24 |
| **Electrical data** | | | | |
| Power supply | Indoor unit | Ph-V-Hz | 1-220~240V-50HZ | 1-220~240V-50HZ |
| | Outdoor unit | | 3-380~415V-50HZ | 3-380~415V-50HZ |
| Power cable | | Type | 5 x 2.5 mm$^2$ | 5 x 4 mm$^2$ |
| Connection wires between each I.U. and O.U. | | no. | 5 (2 of which shielded) | 5 (2 of which shielded) |
| Rated absorbed current (min~max) | Cooling | A | 9.10 (1.80~9.30) | 10.50 (1.90~10.30) |
| | Heating | A | 8.10 (1.60~10.30) | 9.90 (1.60~10.80) |
| Maximum current | | A | 11.2 | 14.0 |
| Maximum absorbed power | | kW | 6.20 | 7.50 |
| **Refrigerant circuit** | | | | |
| Refrigerant (GWP)[4] | | | R32 (675) | R32 (675) |
| Quantity refrigerant pre-load | | Kg | 2.8 | 2.95 |
| Tons of CO2 equivalent | | t | 1.890 | 1.991 |
| Diameter of refrigerant piping on liquid/gas | Indoor unit | mm (inches) | ø9.52(3/8") - ø15.88(5/8") | ø9.52(3/8") - ø15.88(5/8") |
| | Outdoor unit | | | |
| Max. splitting length | | m | 65 | 65 |
| Max height difference I.U./O.U. | | m | 30 | 30 |
| Splitting length without additional load | | m | 5 | 5 |
| Additional load | | g/m | 24 | 24 |

For the specifications of the units, the connectable accessories and the optional parts, refer to the tables of the single models.
1 EU Delegated Regulation No.626/2011 on the new labelling indicating the energy consumption of air conditioners. 2 EU Regulation No.206/2012 - - Value measured according to harmonised standard EN14825. 3 Value measured according to harmonised standard EN14511. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant was released into the atmosphere, then the impact on global warming would be 675 times higher than 1 kg of CO2, for a period of 100 years. In no case should the user try to intervene on the refrigerant circuit or to disassemble the product. Always contact qualified personnel if necessary.

The indoor units that can be used in the twin combinations are the slim cassette, the medium static pressure ducted and the floor/ceiling combined with outdoor units of 14.00 and 16.00 kW.

# **R32** MULTISPLIT

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

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

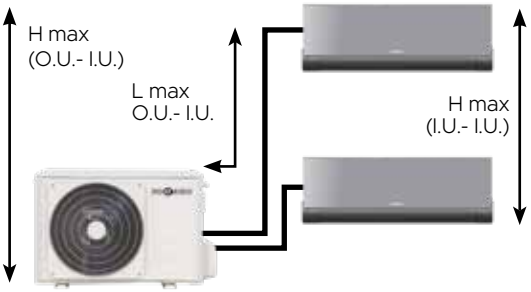
## OPERATING RANGE

-15° C / 50° C
in cooling

-15° C / 24° C
in cooling

## INSTALLATION FLEXIBILITY

Extensive splitting lengths.




**HCKU 470-530 Z2**

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

**HCKU 600-760 Z3**

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

**HCKU 810-1060 Z4 | HCKU 1200 Z5**

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

## HIGHLY COMPACT

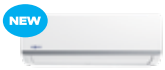
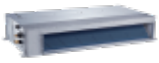
Highly compact and easy to install.

**HCKU 470-530 Z2**


**HCKU 600-760 Z3**


**HCKU 810-1060 Z4 | HCKU 1200 Z5**

# R32 MULTISPLIT

| kW | | 4.10 | 5.28 | 6.15 | 7.91 | 8.21 | 10.55 | 12.31 |
|---|---|---|---|---|---|---|---|---|
| Number of connectable I.U. | | 2 | 2 | 3 | 3 | 4 | 4 | 5 |
| | |  |  |  |  |  |  |  |
| | | HCKU 470 Z2 | HCKU 530 Z2 | HCKU 600 Z3 | HCKU 760 Z3 | HCKU 810 Z4 | HCKU 1060 Z4 | HCKU 1200 Z5 |
|  | HKEMM 262 ZAL | ● | ● | ● | ● | ● | ● | ● |
| | HKEMM 352 ZAL | ● | ● | ● | ● | ● | ● | ● |
|  | HKEMM 266 ZAL | ● | ● | ● | ● | ● | ● | ● |
| | HKEMM 356 ZAL | ● | ● | ● | ● | ● | ● | ● |
|  | HKEU 203 ZL | ● | ● | ● | ● | ● | ● | ● |
| | HKEU 263 ZAL | ● | ● | ● | ● | ● | ● | ● |
| | HKEU 353 ZAL-1 | ● | ● | ● | ● | ● | ● | ● |
| | HKEU 533 ZAL | ● | ● | ● | ● | ● | ● | ● |
| | HKEU 713 ZAL | | | | | | ● | ● |
|  | HFIU 260 ZL | ● | ● | ● | ● | ● | ● | ● |
| | HFIU 350 ZAL | ● | ● | ● | ● | ● | ● | ● |
|  | HTFU 260 ZL | ● | ● | ● | ● | ● | ● | ● |
| | HTFU 350 ZAL | ● | ● | ● | ● | ● | ● | ● |
| | HTFU 530 ZAL | ● | ● | ● | ● | ● | ● | ● |
|  | HUCU 260 ZL | ● | ● | ● | ● | ● | ● | ● |
| | HUCU 350 ZAL | ● | ● | ● | ● | ● | ● | ● |
| | HUCU 530 ZAL | ● | ● | ● | ● | ● | ● | ● |
|  | HSFU 530 ZAL | ● | ● | ● | ● | ● | ● | ● |

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

# R32 MULTISPLIT
## Outdoor unit - Up to 5 connectable indoor units

HCKU 470 Z2
HCKU 530 Z2

HCKU 600 Z3
HCKU 760 Z3

HCKU 810 Z4
HCKU 1060 Z4

HCKU 1200 Z5

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

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

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

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

| Model | | | HCKU 470 Z2 | HCKU 530 Z2 | HCKU 600 Z3 | HCKU 760 Z3 | HCKU 810 Z4 | HCKU 1060 Z4 | HCKU 1200 Z5 |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | | | Outdoor DC-Inverter heat pump unit | | | | | | |
| Connectable indoor units (min - max) | | no. | 1 - 2 | 1 - 2 | 2 - 3 | 2 - 3 | 2 - 4 | 2 - 4 | 2 - 5 |
| Rated capacity (T=+35°C) | | kW | 4.10 (1.82~4.81) | 5.28 (2.05~6.86) | 6.15 (1.94~6.86) | 7.91 (2.96~8.50) | 8.21 (2.05~9.85) | 10.55 (2.05~12.66) | 12.31 (2.05~14.16) |
| Rated absorbed power (T=+35°C) | | kW | 1.27 (0.17~1.71) | 1.63 (0.65~2.00) | 1.90 (0.18~2.24) | 2.45 (0.24~3.22) | 2.54 (0.89~3.18) | 3.27 (1.14~4.09) | 4.26 (1.49~4.58) |
| Rated energy efficiency coefficient | | EER[3] | 3.23 | 3.24 | 3.24 | 3.23 | 3.23 | 3.23 | 2.89 |
| Seasonal energy efficiency class | Cooling | 626/2011[1] | A+ | A++ | A++ | A++ | A++ | A++ | A++ |
| Seasonal energy efficiency index | | SEER[2] | 5.6 | 6.1 | 6.1 | 6.1 | 6.1 | 6.2 | 6.1 |
| Annual energy consumption | | kWh/a | 256 | 309 | 350 | 453 | 471 | 598 | 711 |
| Theoretical load (Pdesignc) | | kW | 4.1 | 5.3 | 6.1 | 7.9 | 8.2 | 10.6 | 12.4 |
| Rated capacity (T=+7°C) | | kW | 4.40 (1.53~5.10) | 5.57 (2.34~7.24) | 6.6 (1.73~7.25) | 8.21 (2.04~9.38) | 8.79 (2.34~10.55) | 10.84 (2.34~13.01) | 12.31 (2.34~14.77) |
| Rated absorbed power (T=+7°C) | | kW | 1.185 (0.27~1.71) | 1.39 (0.60~1.67) | 1.78 (0.33~1.92) | 2.10 (0.31~2.89) | 2.20 (0.77~2.75) | 2.76 (0.97~3.45) | 3.10 (1.09~4.00) |
| Rated energy performance coefficient | | COP[3] | 3.71 | 4.01 | 3.71 | 3.91 | 4.00 | 3.93 | 3.97 |
| Energy efficiency class (average season) | Heating | 626/2011[1] | A | A | A+ | A+ | A | A | A |
| Seasonal energy efficiency class index (average season) | | SCOP[2] | 3.8 | 3.8 | 4.0 | 4.0 | 3.8 | 3.8 | 3.5 |
| Annual energy consumption | | kWh/a | 1363 | 1768 | 1960 | 1960 | 2395 | 3316 | 3680 |
| Theoretical load (Pdesignh) @-10° C | | kW | 3.7 | 4.8 | 5.6 | 5.6 | 6.5 | 9.0 | 9.2 |
| Operating limits (outside temperature) | Cooling | °C | -15~50 | -15~50 | -15~50 | -15~50 | -15~50 | -15~50 | -15~50 |
| | Heating | °C | -15~24 | -15~24 | -15~24 | -15~24 | -15~24 | -15~24 | -15~24 |
| **Electrical data** | | | | | | | | | |
| Power supply | | 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$^2$ |
| Connection wires between each I.U. and O.U. | | no. | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Rated absorbed current (min~max) | Cooling | A | 5.50 (0.70~9.30) | 7.10 (2.80~9.20) | 9.00 (1.10~9.90) | 13.70 (2.20~14.30) | 11.30 (3.90~14.10) | 14.30 (5.10~18.20) | 18.50 (6.60~20.30) |
| | Heating | A | 5.20 (1.20~9.40) | 6.10 (2.60~7.70) | 8.50 (1.90~8.50) | 12.50 (2.50~12.90) | 9.80 (3.40~12.20) | 12.10 (4.30~15.30) | 13.50 (4.80~17.80) |
| Maximum current | | A | 11.5 | 13 | 15.5 | 17.5 | 19 | 21.5 | 22 |
| Maximum absorbed power | | kW | 2.65 | 2.85 | 3.30 | 3.60 | 4.15 | 4.60 | 4.70 |
| **Refrigerant circuit** | | | | | | | | | |
| Refrigerant (GWP)[4] | | | R32 (675) | R32 (675) | R32 (675) | R32 (675) | R32 (675) | R32 (675) | R32 (675) |
| Quantity refrigerant pre-load | | Kg | 1.10 | 1.25 | 1.4 | 1.72 | 2.1 | 2.1 | 2.4 |
| Tons of CO2 equivalent | | t | 0.743 | 0.844 | 0.945 | 1.161 | 1.418 | 1.418 | 1.620 |
| Diameter of refrigerant piping on liquid/gas | | mm (inches) | 2 x ø6.35(1/4")/ 2 x ø9.52(3/8") | 2 x ø6.35(1/4")/ 2 x ø9.52(3/8") | 3 x ø6.35(1/4")/ 3 x ø9.52(3/8") | 3 x ø6.35(1/4")/ 3 x ø9.52(3/8") | 4 x ø6.35(1/4")/ 3 x ø9.52(3/8")+ 1 x ø12.74(1/2") | 4 x ø6.35(1/4")/ 3 x ø9.52(3/8") + 1 x ø12.74(1/2") | 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 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| **Product specifications** | | | | | | | | | |
| Dimensions | LxDxH | mm | 800x333x554 | 800x333x554 | 845x363x702 | 845x363x702 | 946x410x810 | 946x410x810 | 946x410x810 |
| Net weight | | Kg | 31.6 | 35.5 | 46.8 | 51.1 | 62.1 | 68.8 | 73.3 |
| Sound pressure level | | dB(A) | 57 | 56 | 57.5 | 54 | 61.5 | 63 | 64 |
| Sound power level | | dB(A) | 64 | 65 | 65 | 67 | 67 | 67 | 69 |
| Treated air (Max) | | m$^3$/h | 2200 | 2200 | 3000 | 2700 | 3800 | 4000 | 3850 |
| Motor power (Output) | | W | 34 | 34 | 115 | 115 | 150 | 150 | 150 |

Energy efficiency values refer to the following combinations: HCKU 470 Z2 + 2 x HKEU 203 ZL - HCKU 530 Z2 + 2 x HKEU 263 ZAL - HCKU 600 Z3 + 3 x HKEU 203 ZL - HCKU760Z3 + 3 x HKEU 263 ZAL - HCKU810Z4 + 4 x HKEU 203 ZL - HCKU 1060 Z4 + 4 x HKEU 263 ZAL - HCKU1 200 Z5 + 5 x HKEU 263 ZAL.

1 EU Delegated Regulation No.626/2011 on the new labelling indicating the energy consumption of air conditioners. 2 EU Regulation No.206/2012 - - Value measured according to harmonised standard EN14825. 3 Value measured according to harmonised standard EN14511. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

NEW

# V-DESIGN PLUS DC INVERTER MULTISPLIT INDOOR UNITS

**Wall** HKEMM 262-352 ZAL Dark silver

Wi-Fi (optional)

Remote control included as standard

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

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

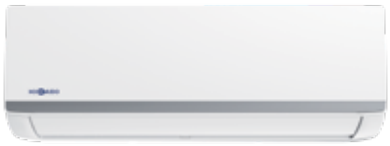
Automatic brightness adjustment

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

# INAZAMI DC INVERTER MULTISPLIT INDOOR UNITS

NEW

**Wall** HKEMM 266-356 ZAL



Wi-Fi (optional)

Remote control included as standard

"3D flow" air diffusion

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

Up to 12 fan speeds

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

# ACTIVE LINE DC INVERTER MULTISPLIT INDOOR UNITS

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

Wi-Fi (optional)

Remote control included as standard

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

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

# MULTISPLIT INDOOR UNITS

## Console HFIU 260 ZL - HFIU 350 ZAL

Remote control included as standard

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

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

# MULTISPLIT INDOOR UNITS

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

Wi-Fi
(optional)

Remote control included as standard

TFP 200 ZA panel with 360° air diffusion

Pre-set for external air inlet

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

| Model | | | HTFU 260 ZL | HTFU 350 ZAL | HTFU 530 ZAL |
|---|---|---|---|---|---|
| Type | | | Indoor cassette unit | | |
| Control (included) | | | Remote control | | |
| Rated capacity | Cooling | kW | 2.60 | 3.50 | 5.30 |
| | Heating | kW | 2.90 | 4.10 | 5.40 |
| Electrical data | | | | | |
| Power supply | | Ph-V-Hz | - | - | - |
| Connection wires between I.U. and O.U. | | no. | 4 | 4 | 4 |
| Refrigerant circuit | | | | | |
| Diameter of refrigerant piping on liquid/gas | | mm (inches) | ø6.35(1/4") - ø9.52(3/8") | ø6.35(1/4") - ø9.52(3/8") | ø6.35(1/4") - ø12.74(1/2") |
| Product specifications | | | | | |
| Dimensions | LxDxH | mm | 570x570x260 | 570x570x260 | 570x570x260 |
| Net weight | | Kg | 14.5 | 16.2 | 16.2 |
| Sound pressure level | Hi/Mi/Lo | dB(A) | 38/33/29 | 41/37/34 | 44/42/41 |
| Sound power level | Hi | dB(A) | 53 | 58 | 56 |
| Treated air (High / Med. / Low) | | $m^3/h$ | 580/500/450 | 617/504/415 | 680/560/500 |
| Motor power (Output) | | W | 45 | 45 | 45 |
| Accessories | | | | | |
| Decorative panel | | | TFP200ZA | | |
| Optional parts | | | | | |
| Wi-Fi module | | | HKM-WIFI LCAC | | |
| Wired remote control | | | YES | | |
| Manual centralized control | | | YES[1] | | |
| Wi-Fi centralized control | | | YES[1] | | |

1. Contact the Hokkaido technical department for installation.

# MULTISPLIT INDOOR UNITS

## Medium static pressure ducted

HUCU 260 ZL - HUCU 350-530 ZAL

Wi-Fi
(optional)

Remote control included as standard

Compatible with systems AIRZONE

Optional Clean Air UV-kit purification device

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

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

1. Contact the Hokkaido technical department for installation.

# MULTISPLIT INDOOR UNITS

## Ceiling HSFU 530 ZAL

Wi-Fi
(optional)

Remote control included as standard

Excellent installation flexibility

Turbo function, for heating and cooling rooms quickly

| Model | | | HSFU 530 ZAL |
|---|---|---|---|
| **Type** | | | **Indoor ceiling unit** |
| Control (included) | | | Remote control |
| Rated capacity | Cooling | kW | 5.30 |
| | Heating | kW | 5.60 |
| **Electrical data** | | | |
| Power supply | | Ph-V-Hz | - |
| Connection wires between I.U. and O.U. | | no. | 4 |
| **Refrigerant circuit** | | | |
| Diameter of refrigerant piping on liquid/gas | | mm (inches) | ø6.35(1/4") - ø12.74(1/2") |
| **Product specifications** | | | |
| Dimensions | LxDxH | mm | 1068x675x235 |
| Net weight | | Kg | 28 |
| Sound pressure level | Hi/Mi/Lo | dB(A) | 41.5/38.5/34.5 |
| Sound power level | Hi | dB(A) | 58 |
| Treated air (High / Med. / Low) | | $m^3/h$ | 880/760/650 |
| Motor power (Output) | | W | 96 |
| **Optional parts** | | | |
| Wi-Fi module | | | HKM-WIFI LCAC |
| Wired remote control | | | YES |
| Manual centralized control | | | YES[1] |
| Wi-Fi centralized control | | | YES[1] |

1. Contact the Hokkaido technical department for installation.

# TECHNICAL APPENDIX

# R32 COMBINATIONS

## HCKU 470 Z2 Cooling

| Combinations | Indoor Units | Combination | | Rated cooling capacity (kW) | | Total cooling capacity (kW) | Absorbed power (kW) | EER (W/W) | Pdesignc | SEER | Annual consumption (kWh) | Energy class |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Unit A | Unit B | Unit A | Unit B | std. | std. | std. | | | | |
| 1 unit | 53 | 53 | — | 4.10 | — | 4.10 | 1.27 | 3.23 | — | — | — | — |
| 2 units | **20+20** | **20** | **20** | **2.05** | **2.05** | **4.10** | **1.27** | **3.23** | **4.1** | **5.6** | **256** | **A+** |
| | 20+26 | 20 | 26 | 1.79 | 2.31 | 4.10 | 1.27 | 3.23 | 4.1 | 5.6 | 256 | A+ |
| | 20+35 | 20 | 35 | 1.51 | 2.59 | 4.10 | 1.27 | 3.23 | 4.1 | 5.6 | 256 | A+ |
| | 26+26 | 26 | 26 | 2.05 | 2.05 | 4.10 | 1.27 | 3.23 | 4.1 | 5.6 | 256 | A+ |
| | 26+35 | 26 | 35 | 1.76 | 2.34 | 4.10 | 1.27 | 3.23 | 4.1 | 5.6 | 256 | A+ |

## HCKU 470 Z2 Heating

| Combinations | Indoor Units | Combination | | Rated heating capacity (kW) | | Total heating capacity (kW) | Absorbed power (kW) | COP (W/W) | Pdesignh | SCOP | Annual consumption (kWh) | Energy class |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Unit A | Unit B | Unit A | Unit B | std. | std. | std. | | | | |
| 1 unit | 53 | 53 | — | 4.40 | — | 4.40 | 1.19 | 3.71 | — | — | — | — |
| 2 units | **20+20** | **20** | **20** | **2.20** | **2.20** | **4.40** | **1.19** | **3.71** | **3.7** | **3.8** | **1363** | **A** |
| | 20+26 | 20 | 26 | 1.93 | 2.48 | 4.40 | 1.19 | 3.71 | 3.7 | 3.8 | 1363 | A |
| | 20+35 | 20 | 35 | 1.62 | 2.78 | 4.40 | 1.19 | 3.71 | 3.7 | 3.8 | 1363 | A |
| | 26+26 | 26 | 26 | 2.20 | 2.20 | 4.40 | 1.19 | 3.71 | 3.7 | 3.8 | 1363 | A |
| | 26+35 | 26 | 35 | 1.89 | 2.51 | 4.40 | 1.19 | 3.71 | 3.7 | 3.8 | 1363 | A |

## HCKU 530 Z2 Cooling

| Combinations | Indoor Units | Combination | | Rated cooling capacity (kW) | | Total cooling capacity (kW) | Absorbed power (kW) | EER (W/W) | Pdesignc | SEER | Annual consumption (kWh) | Energy class |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Unit A | Unit B | Unit A | Unit B | std. | std. | std. | | | | |
| 1 unit | 53 | 53 | — | 5.00 | — | 5.00 | 1.55 | 3.23 | — | — | — | — |
| 2 units | 20+20 | 20 | 20 | 2.10 | 2.10 | 4.20 | 1.23 | 3.41 | 4.2 | 6.1 | 241 | A++ |
| | 20+26 | 20 | 26 | 2.06 | 2.64 | 4.70 | 1.46 | 3.23 | 4.7 | 6.1 | 270 | A++ |
| | 20+35 | 20 | 35 | 1.92 | 3.28 | 5.20 | 1.61 | 3.23 | 5.3 | 6.1 | 304 | A++ |
| | 20+53 | 20 | 53 | 1.50 | 3.88 | 5.35 | 1.65 | 3.25 | 5.3 | 6.1 | 304 | A++ |
| | **26+26** | **26** | **26** | **2.65** | **2.65** | **5.30** | **1.63** | **3.24** | **5.3** | **6.1** | **304** | **A++** |
| | 26+35 | 26 | 35 | 2.27 | 3.03 | 5.30 | 1.63 | 3.24 | 5.3 | 6.1 | 304 | A++ |
| | 26+53 | 26 | 53 | 1.78 | 3.57 | 5.35 | 1.65 | 3.25 | 5.3 | 6.1 | 304 | A++ |
| | 35+35 | 35 | 35 | 2.65 | 2.65 | 5.30 | 1.63 | 3.24 | 5.3 | 6.1 | 304 | A++ |

## HCKU 530 Z2 Heating

| Combinations | Indoor Units | Combination | | Rated heating capacity (kW) | | Total heating capacity (kW) | Absorbed power (kW) | COP (W/W) | Pdesignh | SCOP | Annual consumption (kWh) | Energy class |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Unit A | Unit B | Unit A | Unit B | std. | std. | std. | | | | |
| 1 unit | 53 | 53 | — | 5.20 | — | 5.20 | 1.35 | 3.85 | — | — | — | — |
| 2 units | 20+20 | 20 | 20 | 2.50 | 2.50 | 5.00 | 1.24 | 4.03 | 4.8 | 3.8 | 1768 | A |
| | 20+26 | 20 | 26 | 2.32 | 2.98 | 5.30 | 1.34 | 3.95 | 4.8 | 3.8 | 1768 | A |
| | 20+35 | 20 | 35 | 2.03 | 3.47 | 5.50 | 1.37 | 4.01 | 4.8 | 3.8 | 1768 | A |
| | 20+53 | 20 | 53 | 1.60 | 4.14 | 5.70 | 1.42 | 4.01 | 4.8 | 3.8 | 1768 | A |
| | **26+26** | **26** | **26** | **2.79** | **2.79** | **5.57** | **1.39** | **4.01** | **4.8** | **3.8** | **1768** | **A** |
| | 26+35 | 26 | 35 | 2.40 | 3.20 | 5.60 | 1.40 | 4.01 | 4.8 | 3.8 | 1768 | A |
| | 26+53 | 26 | 53 | 1.93 | 3.87 | 5.80 | 1.45 | 4.01 | 4.8 | 3.8 | 1768 | A |
| | 35+35 | 35 | 35 | 2.80 | 2.80 | 5.60 | 1.40 | 4.01 | 4.8 | 3.8 | 1768 | A |

# R32 COMBINATIONS

## HCKU 600 Z3 Cooling

| Combinations | Indoor Units | Combination | | | Rated cooling capacity (kW) | | | Total cooling capacity (kW) | Absorbed power (kW) | EER (W/W) | Pdesignc | SEER | Annual consumption (kWh) | Energy class |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Unit A | Unit B | Unit C | Unit A | Unit B | Unit C | std. | std. | std. | | | | |
| 2 units | 20+35 | 20 | 35 | — | 1.95 | 3.35 | — | 5.30 | 1.64 | 3.23 | 5.3 | 5.6 | 331 | A+ |
| | 20+53 | 20 | 53 | — | 1.76 | 4.54 | — | 6.30 | 1.95 | 3.23 | 6.1 | 5.6 | 381 | A+ |
| | 26+26 | 26 | 26 | — | 2.65 | 2.65 | — | 5.30 | 1.64 | 3.23 | 5.3 | 5.6 | 331 | A+ |
| | 26+35 | 26 | 35 | — | 2.57 | 3.43 | — | 6.00 | 1.86 | 3.23 | 6.0 | 5.6 | 375 | A+ |
| | 26+53 | 26 | 53 | — | 2.10 | 4.20 | — | 6.30 | 1.94 | 3.24 | 6.1 | 5.6 | 381 | A+ |
| | 35+35 | 35 | 35 | — | 3.10 | 3.10 | — | 6.20 | 1.92 | 3.23 | 6.1 | 5.6 | 381 | A+ |
| 3 units | **20+20+20** | **20** | **20** | **20** | **2.03** | **2.03** | **2.03** | **6.10** | **1.89** | **3.23** | **6.1** | **6.1** | **350** | **A++** |
| | 20+20+26 | 20 | 20 | 26 | 1.92 | 1.92 | 2.47 | 6.30 | 1.95 | 3.23 | 6.1 | 6.1 | 350 | A++ |
| | 20+20+35 | 20 | 20 | 35 | 1.70 | 1.70 | 2.91 | 6.30 | 1.94 | 3.24 | 6.1 | 6.1 | 350 | A++ |
| | 20+26+26 | 20 | 26 | 26 | 1.76 | 2.27 | 2.27 | 6.30 | 1.94 | 3.24 | 6.1 | 6.1 | 350 | A++ |
| | 20+26+35 | 20 | 26 | 35 | 1.58 | 2.03 | 2.70 | 6.30 | 1.94 | 3.24 | 6.1 | 6.1 | 350 | A++ |
| | 26+26+26 | 26 | 26 | 26 | 2.10 | 2.10 | 2.10 | 6.30 | 1.94 | 3.24 | 6.1 | 6.1 | 350 | A++ |
| | 26+26+35 | 26 | 26 | 35 | 1.89 | 1.89 | 2.52 | 6.30 | 1.94 | 3.24 | 6.1 | 6.1 | 350 | A++ |

## HCKU 600 Z3 Heating

| Combinations | Indoor Units | Combination | | | Rated heating capacity (kW) | | | Total heating capacity (kW) | Absorbed power (kW) | COP (W/W) | Pdesignh | SCOP | Annual consumption (kWh) | Energy class |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Unit A | Unit B | Unit C | Unit A | Unit B | Unit C | std. | std. | std. | | | | |
| 2 units | 20+35 | 20 | 35 | — | 2.17 | 3.73 | — | 5.90 | 1.59 | 3.71 | 4.8 | 3.8 | 1768 | A |
| | 20+53 | 20 | 53 | — | 1.82 | 4.68 | — | 6.50 | 1.75 | 3.71 | 5.1 | 3.8 | 1886 | A+ |
| | 26+26 | 26 | 26 | — | 2.95 | 2.95 | — | 5.90 | 1.59 | 3.71 | 4.8 | 3.8 | 1768 | A |
| | 26+35 | 26 | 35 | — | 2.70 | 3.60 | — | 6.30 | 1.70 | 3.71 | 5.1 | 3.8 | 1886 | A+ |
| | 26+53 | 26 | 53 | — | 2.20 | 4.40 | — | 6.60 | 1.78 | 3.71 | 5.1 | 3.8 | 1886 | A+ |
| | 35+35 | 35 | 35 | — | 3.15 | 3.15 | — | 6.30 | 1.70 | 3.71 | 5.1 | 3.8 | 1886 | A+ |
| 3 units | **20+20+20** | **20** | **20** | **20** | **2.20** | **2.20** | **2.20** | **6.60** | **1.78** | **3.71** | **5.6** | **4.0** | **1960** | **A+** |
| | 20+20+26 | 20 | 20 | 26 | 2.02 | 2.02 | 2.60 | 6.65 | 1.79 | 3.72 | 5.6 | 4.0 | 1960 | A+ |
| | 20+20+35 | 20 | 20 | 35 | 1.80 | 1.80 | 3.09 | 6.70 | 1.80 | 3.72 | 5.6 | 4.0 | 1960 | A+ |
| | 20+26+26 | 20 | 26 | 26 | 1.88 | 2.41 | 2.41 | 6.70 | 1.80 | 3.72 | 5.6 | 4.0 | 1960 | A+ |
| | 20+26+35 | 20 | 26 | 35 | 1.68 | 2.15 | 2.87 | 6.70 | 1.80 | 3.72 | 5.6 | 4.0 | 1960 | A+ |
| | 26+26+26 | 26 | 26 | 26 | 2.23 | 2.23 | 2.23 | 6.70 | 1.81 | 3.71 | 5.6 | 4.0 | 1960 | A+ |
| | 26+26+35 | 26 | 26 | 35 | 2.01 | 2.01 | 2.68 | 6.70 | 1.80 | 3.72 | 5.6 | 4.0 | 1960 | A+ |

# R32 COMBINATIONS

## HCKU 760 Z3 Cooling

| Combinations | Indoor Units | Combination | | | Rated cooling capacity (kW) | | | Total cooling capacity (kW) | Absorbed power (kW) | EER (W/W) | Pdesignc | SEER | Annual consumption (kWh) | Energy class |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Unit A | Unit B | Unit C | Unit A | Unit B | Unit C | std. | std. | std. | | | | |
| 2 units | 20+35 | 20 | 35 | — | 1.95 | 3.35 | — | 5.30 | 1.64 | 3.23 | 5.3 | 5.6 | 331 | A+ |
| | 20+53 | 20 | 53 | — | 1.82 | 4.68 | — | 6.50 | 2.01 | 3.23 | 6.5 | 5.6 | 406 | A+ |
| | 26+26 | 26 | 26 | — | 2.65 | 2.65 | — | 5.30 | 1.64 | 3.23 | 5.3 | 5.6 | 331 | A+ |
| | 26+35 | 26 | 35 | — | 2.57 | 3.43 | — | 6.00 | 1.86 | 3.23 | 6.0 | 5.6 | 375 | A+ |
| | 26+53 | 26 | 53 | — | 2.27 | 4.53 | — | 6.80 | 2.09 | 3.25 | 6.8 | 5.6 | 425 | A+ |
| | 35+35 | 35 | 35 | — | 3.15 | 3.15 | — | 6.30 | 1.94 | 3.24 | 6.3 | 5.6 | 394 | A+ |
| | 35+53 | 35 | 53 | — | 2.72 | 4.08 | — | 6.80 | 2.09 | 3.25 | 6.8 | 5.6 | 425 | A+ |
| 3 units | 20+20+20 | 20 | 20 | 20 | 2.43 | 2.43 | 2.43 | 7.30 | 2.26 | 3.23 | 7.3 | 6.1 | 419 | A++ |
| | 20+20+26 | 20 | 20 | 26 | 2.25 | 2.25 | 2.90 | 7.40 | 2.29 | 3.23 | 7.4 | 6.1 | 425 | A++ |
| | 20+20+35 | 20 | 20 | 35 | 2.13 | 2.13 | 3.65 | 7.90 | 2.45 | 3.23 | 7.9 | 6.1 | 453 | A++ |
| | 20+20+53 | 20 | 20 | 53 | 1.73 | 1.73 | 4.44 | 7.90 | 2.43 | 3.25 | 7.9 | 6.1 | 453 | A++ |
| | 20+26+26 | 20 | 26 | 26 | 2.13 | 2.74 | 2.74 | 7.60 | 2.35 | 3.23 | 7.6 | 6.1 | 436 | A++ |
| | 20+26+35 | 20 | 26 | 35 | 1.98 | 2.54 | 3.39 | 7.90 | 2.45 | 3.23 | 7.9 | 6.1 | 453 | A++ |
| | 20+26+53 | 20 | 26 | 53 | 1.63 | 2.09 | 4.18 | 7.90 | 2.43 | 3.25 | 7.9 | 6.1 | 453 | A++ |
| | 20+35+35 | 20 | 35 | 35 | 1.78 | 3.06 | 3.06 | 7.90 | 2.43 | 3.25 | 7.9 | 6.1 | 453 | A++ |
| | **26+26+26** | **26** | **26** | **26** | **2.63** | **2.63** | **2.63** | **7.90** | **2.45** | **3.23** | **7.9** | **6.1** | **453** | **A++** |
| | 26+26+35 | 26 | 26 | 35 | 2.37 | 2.37 | 3.16 | 7.90 | 2.43 | 3.25 | 7.9 | 6.1 | 453 | A++ |
| | 26+35+35 | 26 | 35 | 35 | 2.15 | 2.87 | 2.87 | 7.90 | 2.43 | 3.25 | 7.9 | 6.1 | 453 | A++ |
| | 35+35+35 | 35 | 35 | 35 | 2.63 | 2.63 | 2.63 | 7.90 | 2.43 | 3.25 | 7.9 | 6.1 | 453 | A++ |

## HCKU 760 Z3 Heating

| Combinations | Indoor Units | Combination | | | Rated heating capacity (kW) | | | Total heating capacity (kW) | Absorbed power (kW) | COP (W/W) | Pdesignh | SCOP | Annual consumption (kWh) | Energy class |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Unit A | Unit B | Unit C | Unit A | Unit B | Unit C | std. | std. | std. | | | | |
| 2 units | 20+35 | 20 | 35 | — | 2.21 | 3.79 | — | 6.00 | 1.57 | 3.81 | 5.1 | 3.8 | 1879 | A |
| | 20+53 | 20 | 53 | — | 1.96 | 5.04 | — | 7.00 | 1.84 | 3.81 | 5.1 | 3.8 | 1879 | A |
| | 26+26 | 26 | 26 | — | 3.00 | 3.00 | — | 6.00 | 1.57 | 3.81 | 5.1 | 3.8 | 1879 | A |
| | 26+35 | 26 | 35 | — | 2.70 | 3.60 | — | 6.30 | 1.65 | 3.81 | 5.1 | 3.8 | 1879 | A |
| | 26+53 | 26 | 53 | — | 2.33 | 4.67 | — | 7.00 | 1.84 | 3.81 | 5.1 | 3.8 | 1879 | A |
| | 35+35 | 35 | 35 | — | 3.25 | 3.25 | — | 6.50 | 1.71 | 3.81 | 5.1 | 3.8 | 1879 | A |
| | 35+53 | 35 | 53 | — | 2.80 | 4.20 | — | 7.00 | 1.84 | 3.81 | 5.1 | 3.8 | 1879 | A |
| 3 units | 20+20+20 | 20 | 20 | 20 | 2.27 | 2.27 | 2.27 | 6.80 | 1.75 | 3.88 | 5.6 | 4.0 | 1960 | A+ |
| | 20+20+26 | 20 | 20 | 26 | 2.13 | 2.13 | 2.74 | 7.00 | 1.80 | 3.88 | 5.6 | 4.0 | 1960 | A+ |
| | 20+20+35 | 20 | 20 | 35 | 2.13 | 2.13 | 3.65 | 7.90 | 2.03 | 3.90 | 5.6 | 4.0 | 1960 | A+ |
| | 20+20+53 | 20 | 20 | 53 | 1.82 | 1.82 | 4.67 | 8.30 | 2.12 | 3.91 | 5.6 | 4.0 | 1960 | A+ |
| | 20+26+26 | 20 | 26 | 26 | 2.21 | 2.84 | 2.84 | 7.90 | 2.03 | 3.90 | 5.6 | 4.0 | 1960 | A+ |
| | 20+26+35 | 20 | 26 | 35 | 2.05 | 2.64 | 3.51 | 8.20 | 2.10 | 3.91 | 5.6 | 4.0 | 1960 | A+ |
| | 20+26+53 | 20 | 26 | 53 | 1.71 | 2.20 | 4.39 | 8.30 | 2.12 | 3.92 | 5.6 | 4.0 | 1960 | A+ |
| | 20+35+35 | 20 | 35 | 35 | 1.87 | 3.21 | 3.21 | 8.30 | 2.12 | 3.92 | 5.6 | 4.0 | 1960 | A+ |
| | **26+26+26** | **26** | **26** | **26** | **2.73** | **2.73** | **2.73** | **8.20** | **2.10** | **3.91** | **5.6** | **4.0** | **1960** | **A+** |
| | 26+26+35 | 26 | 26 | 35 | 2.49 | 2.49 | 3.32 | 8.30 | 2.12 | 3.91 | 5.6 | 4.0 | 1960 | A+ |
| | 26+35+35 | 26 | 35 | 35 | 2.26 | 3.02 | 3.02 | 8.30 | 2.12 | 3.92 | 5.6 | 4.0 | 1960 | A+ |
| | 35+35+35 | 35 | 35 | 35 | 2.77 | 2.77 | 2.77 | 8.30 | 2.12 | 3.92 | 5.6 | 4.0 | 1960 | A+ |

# R32 COMBINATIONS

## HCKU 810 Z4 Cooling

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

# R32 COMBINATIONS

## HCKU 810 Z4 Heating

| Combinations | Indoor Units | Combination | | | | Rated heating capacity (kW) | | | | Total heating capacity (kW) | Absorbed power (kW) | COP (W/W) | Pdesignh | SCOP | Annual consumption (kWh) | Energy class |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Unit A | Unit B | Unit C | Unit D | Unit A | Unit B | Unit C | Unit D | std. | std. | std. | | | | |
| 2 units | 20+35 | 20 | 35 | — | — | 2.21 | 3.79 | — | — | 6.00 | 1.57 | 3.81 | 4.6 | 3.4 | 1902 | A |
| | 20+53 | 20 | 53 | — | — | 2.18 | 5.62 | — | — | 7.80 | 2.03 | 3.85 | 6.0 | 3.4 | 2473 | A |
| | 26+26 | 26 | 26 | — | — | 3.00 | 3.00 | — | — | 6.00 | 1.57 | 3.81 | 4.6 | 3.4 | 1902 | A |
| | 26+35 | 26 | 35 | — | — | 3.00 | 4.00 | — | — | 7.00 | 1.84 | 3.81 | 5.4 | 3.4 | 2219 | A |
| | 26+53 | 26 | 53 | — | — | 2.63 | 5.27 | — | — | 7.90 | 2.05 | 3.85 | 6.1 | 3.4 | 2505 | A |
| | 35+35 | 35 | 35 | — | — | 3.75 | 3.75 | — | — | 7.50 | 1.97 | 3.81 | 5.8 | 3.4 | 2378 | A |
| | 35+53 | 35 | 53 | — | — | 3.20 | 4.80 | — | — | 8.00 | 2.08 | 3.85 | 6.1 | 3.4 | 2505 | A |
| | 53+53 | 53 | 53 | — | — | 4.00 | 4.00 | — | — | 8.00 | 2.08 | 3.85 | 6.1 | 3.4 | 2505 | A |
| 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 |
| | 20+20+26 | 20 | 20 | 26 | — | 2.37 | 2.37 | 3.05 | — | 7.80 | 2.00 | 3.90 | 6.0 | 3.5 | 2402 | A |
| | 20+20+35 | 20 | 20 | 35 | — | 2.26 | 2.26 | 3.88 | — | 8.40 | 2.14 | 3.92 | 6.1 | 3.5 | 2440 | A |
| | 20+20+53 | 20 | 20 | 53 | — | 1.88 | 1.88 | 4.84 | — | 8.60 | 2.19 | 3.92 | 6.2 | 3.5 | 2480 | A |
| | 20+26+26 | 20 | 26 | 26 | — | 2.35 | 3.02 | 2.68 | — | 8.40 | 2.14 | 3.92 | 6.1 | 3.5 | 2440 | A |
| | 20+26+35 | 20 | 26 | 35 | — | 2.13 | 2.73 | 3.64 | — | 8.50 | 2.17 | 3.92 | 6.2 | 3.5 | 2480 | A |
| | 20+26+53 | 20 | 26 | 53 | — | 1.77 | 2.28 | 4.55 | — | 8.60 | 2.18 | 3.95 | 6.2 | 3.5 | 2480 | A |
| | 20+35+35 | 20 | 35 | 35 | — | 1.94 | 3.33 | 3.33 | — | 8.60 | 2.19 | 3.92 | 6.2 | 3.5 | 2480 | A |
| | 20+35+53 | 20 | 35 | 53 | — | 1.63 | 2.79 | 4.18 | — | 8.60 | 2.18 | 3.95 | 6.2 | 3.5 | 2480 | A |
| | 26+26+26 | 26 | 26 | 26 | — | 2.87 | 2.87 | 2.87 | — | 8.60 | 2.19 | 3.92 | 6.2 | 3.5 | 2480 | A |
| | 26+26+35 | 26 | 26 | 35 | — | 2.58 | 2.58 | 3.44 | — | 8.60 | 2.19 | 3.92 | 6.2 | 3.5 | 2480 | A |
| | 26+26+53 | 26 | 26 | 53 | — | 2.15 | 2.15 | 4.30 | — | 8.60 | 2.18 | 3.95 | 6.2 | 3.5 | 2480 | A |
| | 26+35+35 | 26 | 35 | 35 | — | 2.35 | 3.13 | 3.13 | — | 8.60 | 2.19 | 3.92 | 6.2 | 3.5 | 2480 | A |
| | 26+35+53 | 26 | 35 | 53 | — | 1.98 | 2.65 | 3.97 | — | 8.60 | 2.18 | 3.95 | 6.2 | 3.5 | 2480 | A |
| | 35+35+35 | 35 | 35 | 35 | — | 2.87 | 2.87 | 2.87 | — | 8.60 | 2.18 | 3.95 | 6.2 | 3.5 | 2480 | A |
| 4 units | **20+20+20+20** | **20** | **20** | **20** | **20** | **2.20** | **2.20** | **2.20** | **2.20** | **8.80** | **2.20** | **4.00** | **6.5** | **3.8** | **2395** | **A** |
| | 20+20+20+26 | 20 | 20 | 20 | 26 | 2.08 | 2.08 | 2.08 | 2.67 | 8.90 | 2.22 | 4.01 | 6.5 | 3.8 | 2395 | A |
| | 20+20+20+35 | 20 | 20 | 20 | 35 | 1.91 | 1.91 | 1.91 | 3.27 | 9.00 | 2.24 | 4.01 | 6.5 | 3.8 | 2395 | A |
| | 20+20+20+53 | 20 | 20 | 20 | 53 | 1.63 | 1.63 | 1.63 | 4.20 | 9.10 | 2.27 | 4.01 | 6.5 | 3.8 | 2395 | A |
| | 20+20+26+26 | 20 | 20 | 26 | 26 | 1.95 | 1.95 | 2.50 | 2.50 | 8.90 | 2.22 | 4.01 | 6.5 | 3.8 | 2395 | A |
| | 20+20+26+35 | 20 | 20 | 26 | 35 | 1.80 | 1.80 | 2.31 | 3.09 | 9.00 | 2.24 | 4.01 | 6.5 | 3.8 | 2395 | A |
| | 20+20+35+35 | 20 | 20 | 35 | 35 | 1.68 | 1.68 | 2.87 | 2.87 | 9.10 | 2.27 | 4.01 | 6.5 | 3.8 | 2395 | A |
| | 20+26+26+26 | 20 | 26 | 26 | 26 | 1.83 | 2.36 | 2.36 | 2.36 | 8.90 | 2.23 | 4.00 | 6.5 | 3.8 | 2395 | A |
| | 20+26+26+35 | 20 | 26 | 26 | 35 | 1.70 | 2.19 | 2.19 | 2.92 | 9.00 | 2.24 | 4.01 | 6.5 | 3.8 | 2395 | A |
| | 20+26+35+35 | 20 | 26 | 35 | 35 | 1.59 | 2.05 | 2.73 | 2.73 | 9.10 | 2.27 | 4.01 | 6.5 | 3.8 | 2395 | A |
| | 26+26+26+26 | 26 | 26 | 26 | 26 | 2.23 | 2.23 | 2.23 | 2.23 | 8.90 | 2.22 | 4.01 | 6.5 | 3.8 | 2395 | A |
| | 26+26+26+35 | 26 | 26 | 26 | 35 | 2.10 | 2.10 | 2.10 | 2.80 | 9.10 | 2.27 | 4.01 | 6.5 | 3.8 | 2395 | A |

# R32 COMBINATIONS

## HCKU 1060 Z4 Cooling

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

# R32 COMBINATIONS

## HCKU 1060 Z4 Cooling

| Combinations | Indoor Units | Combination | | | | Rated heating capacity (kW) | | | | Total cooling capacity (kW) | Absorbed power (kW) | EER (W/W) | Pdesignc | SEER | Annual consumption (kWh) | Energy class |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Unit A | Unit B | Unit C | Unit D | Unit A | Unit B | Unit C | Unit D | std. | std. | std. | | | | |
| 4 units | 20+26+35+53 | 20 | 26 | 35 | 53 | 1.61 | 2.07 | 2.77 | 4.15 | 10.60 | 3.28 | 3.23 | 10.6 | 6.2 | 598 | A++ |
| | 20+26+53+53 | 20 | 26 | 53 | 53 | 1.43 | 1.83 | 3.67 | 3.67 | 10.60 | 3.28 | 3.23 | 10.6 | 6.2 | 598 | A++ |
| | 20+35+35+35 | 20 | 35 | 35 | 35 | 1.73 | 2.96 | 2.96 | 2.96 | 10.60 | 3.28 | 3.23 | 10.6 | 6.2 | 598 | A++ |
| | 20+35+35+53 | 20 | 35 | 35 | 53 | 1.51 | 2.60 | 2.60 | 3.89 | 10.60 | 3.28 | 3.23 | 10.6 | 6.2 | 598 | A++ |
| | **26+26+26+26** | **26** | **26** | **26** | **26** | **2.65** | **2.65** | **2.65** | **2.65** | **10.60** | **3.28** | **3.23** | **10.6** | **6.2** | **598** | **A++** |
| | 26+26+26+35 | 26 | 26 | 26 | 35 | 2.45 | 2.45 | 2.45 | 3.26 | 10.60 | 3.28 | 3.23 | 10.6 | 6.2 | 598 | A++ |
| | 26+26+26+53 | 26 | 26 | 26 | 53 | 2.12 | 2.12 | 2.12 | 4.24 | 10.60 | 3.28 | 3.23 | 10.6 | 6.2 | 598 | A++ |
| | 26+26+35+35 | 26 | 26 | 35 | 35 | 2.27 | 2.27 | 3.03 | 3.03 | 10.60 | 3.28 | 3.23 | 10.6 | 6.2 | 598 | A++ |
| | 26+26+35+53 | 26 | 26 | 35 | 53 | 1.99 | 1.99 | 2.65 | 3.98 | 10.60 | 3.28 | 3.23 | 10.6 | 6.2 | 598 | A++ |
| | 26+35+35+35 | 26 | 35 | 35 | 35 | 2.12 | 2.83 | 2.83 | 2.83 | 10.60 | 3.28 | 3.23 | 10.6 | 6.2 | 598 | A++ |
| | 26+35+35+53 | 26 | 35 | 35 | 53 | 1.87 | 2.49 | 2.49 | 3.74 | 10.60 | 3.28 | 3.23 | 10.6 | 6.2 | 598 | A++ |
| | 35+35+35+35 | 35 | 35 | 35 | 35 | 2.65 | 2.65 | 2.65 | 2.65 | 10.60 | 3.28 | 3.23 | 10.6 | 6.2 | 598 | A++ |

## HCKU 1060 Z4 Heating

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

# R32 COMBINATIONS

## HCKU 1060 Z4 Heating

| Combinations | Indoor Units | Combination | | | | Rated heating capacity (kW) | | | | Total heating capacity (kW) | Absorbed power (kW) | COP (W/W) | Pdesignh | SCOP | Annual consumption (kWh) | Energy class |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Unit A | Unit B | Unit C | Unit D | Unit A | Unit B | Unit C | Unit D | std. | std. | std. | | | | |
| 4 units | 20+20+20+20 | 20 | 20 | 20 | 20 | 2.50 | 2.50 | 2.50 | 2.50 | 10.00 | 2.56 | 3.90 | 8.6 | 3.8 | 3168 | A |
| | 20+20+20+26 | 20 | 20 | 20 | 26 | 2.36 | 2.36 | 2.36 | 3.03 | 10.10 | 2.59 | 3.90 | 7.8 | 3.8 | 2855 | A |
| | 20+20+20+35 | 20 | 20 | 20 | 35 | 2.31 | 2.31 | 2.31 | 3.96 | 10.90 | 2.79 | 3.90 | 8.5 | 3.8 | 3132 | A |
| | 20+20+20+53 | 20 | 20 | 20 | 53 | 1.99 | 1.99 | 1.99 | 5.12 | 11.10 | 2.84 | 3.91 | 9.0 | 3.8 | 3316 | A |
| | 20+20+20+20 | 20 | 20 | 20 | 20 | 1.73 | 1.73 | 1.73 | 5.92 | 11.10 | 2.84 | 3.91 | 9.0 | 3.8 | 3316 | A |
| | 20+20+26+26 | 20 | 20 | 26 | 26 | 2.38 | 2.38 | 3.07 | 3.07 | 10.90 | 2.79 | 3.90 | 9.0 | 3.8 | 3316 | A |
| | 20+20+26+35 | 20 | 20 | 26 | 35 | 2.22 | 2.22 | 2.85 | 3.81 | 11.10 | 2.85 | 3.90 | 9.0 | 3.8 | 3316 | A |
| | 20+20+26+53 | 20 | 20 | 26 | 53 | 1.90 | 1.90 | 2.44 | 4.87 | 11.10 | 2.84 | 3.91 | 9.0 | 3.8 | 3316 | A |
| | 20+20+26+20 | 20 | 20 | 26 | 20 | 1.65 | 1.65 | 2.13 | 5.67 | 11.10 | 2.84 | 3.91 | 9.0 | 3.8 | 3316 | A |
| | 20+20+35+35 | 20 | 20 | 35 | 35 | 2.04 | 2.04 | 3.51 | 3.51 | 11.10 | 2.84 | 3.91 | 9.0 | 3.8 | 3316 | A |
| | 20+20+35+53 | 20 | 20 | 35 | 53 | 1.77 | 1.77 | 3.03 | 4.54 | 11.10 | 2.84 | 3.91 | 9.0 | 3.8 | 3316 | A |
| | 20+20+53+53 | 20 | 20 | 53 | 53 | 1.55 | 1.55 | 4.00 | 4.00 | 11.10 | 2.84 | 3.91 | 9.0 | 3.8 | 3316 | A |
| | 20+26+26+26 | 20 | 26 | 26 | 26 | 2.29 | 2.94 | 2.94 | 2.94 | 11.10 | 2.85 | 3.90 | 9.0 | 3.8 | 3316 | A |
| | 20+26+26+35 | 20 | 26 | 26 | 35 | 2.10 | 2.70 | 2.70 | 3.60 | 11.10 | 2.82 | 3.93 | 9.0 | 3.8 | 3316 | A |
| | 20+26+26+53 | 20 | 26 | 26 | 53 | 1.81 | 2.32 | 2.32 | 4.65 | 11.10 | 2.82 | 3.93 | 9.0 | 3.8 | 3316 | A |
| | 20+26+26+20 | 20 | 26 | 26 | 20 | 1.59 | 2.04 | 2.04 | 5.44 | 11.10 | 2.82 | 3.93 | 9.0 | 3.8 | 3316 | A |
| | 20+26+35+35 | 20 | 26 | 35 | 35 | 1.94 | 2.50 | 3.33 | 3.33 | 11.10 | 2.82 | 3.93 | 9.0 | 3.8 | 3316 | A |
| | 20+26+35+53 | 20 | 26 | 35 | 53 | 1.69 | 2.17 | 2.90 | 4.34 | 11.10 | 2.82 | 3.93 | 9.0 | 3.8 | 3316 | A |
| | 20+26+53+53 | 20 | 26 | 53 | 53 | 1.49 | 1.92 | 3.84 | 3.84 | 11.10 | 2.82 | 3.93 | 9.0 | 3.8 | 3316 | A |
| | 20+35+35+35 | 20 | 35 | 35 | 35 | 1.81 | 3.10 | 3.10 | 3.10 | 11.10 | 2.82 | 3.93 | 9.0 | 3.8 | 3316 | A |
| | 20+35+35+53 | 20 | 35 | 35 | 53 | 1.59 | 2.72 | 2.72 | 4.08 | 11.10 | 2.82 | 3.93 | 9.0 | 3.8 | 3316 | A |
| | **26+26+26+26** | **26** | **26** | **26** | **26** | **2.78** | **2.78** | **2.78** | **2.77** | **11.10** | **2.82** | **3.93** | **9.0** | **3.8** | **3316** | **A** |
| | 26+26+26+35 | 26 | 26 | 26 | 35 | 2.56 | 2.56 | 2.56 | 3.42 | 11.10 | 2.82 | 3.93 | 9.0 | 3.8 | 3316 | A |
| | 26+26+26+53 | 26 | 26 | 26 | 53 | 2.22 | 2.22 | 2.22 | 4.44 | 11.10 | 2.82 | 3.93 | 9.0 | 3.8 | 3316 | A |
| | 26+26+35+35 | 26 | 26 | 35 | 35 | 2.38 | 2.38 | 3.17 | 3.17 | 11.10 | 2.82 | 3.93 | 9.0 | 3.8 | 3316 | A |
| | 26+26+35+53 | 26 | 26 | 35 | 53 | 2.08 | 2.08 | 2.78 | 4.16 | 11.10 | 2.82 | 3.93 | 9.0 | 3.8 | 3316 | A |
| | 26+35+35+35 | 26 | 35 | 35 | 35 | 2.22 | 2.96 | 2.96 | 2.96 | 11.10 | 2.82 | 3.93 | 9.0 | 3.8 | 3316 | A |
| | 26+35+35+53 | 26 | 35 | 35 | 53 | 1.96 | 2.61 | 2.61 | 3.92 | 11.10 | 2.82 | 3.93 | 9.0 | 3.8 | 3316 | A |
| | 35+35+35+35 | 35 | 35 | 35 | 35 | 2.78 | 2.78 | 2.78 | 2.77 | 11.10 | 2.82 | 3.93 | 9.0 | 3.8 | 3316 | A |

## HCKU 1200 Z5 Cooling

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

# R32 COMBINATIONS

## HCKU 1200 Z5 Cooling

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

# R32 COMBINATIONS

## HCKU 1200 Z5 Cooling

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

# R32 COMBINATIONS

## HCKU 1200 Z5 Heating

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

# R32 COMBINATIONS

## HCKU 1200 Z5 Heating

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

# R32 COMBINATIONS

## HCKU 1200 Z5 Heating

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


SELECTED LINE

# SPECIFIC QUESTIONS, TIMELY ANSWERS

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

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

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

# SELECTED LINE

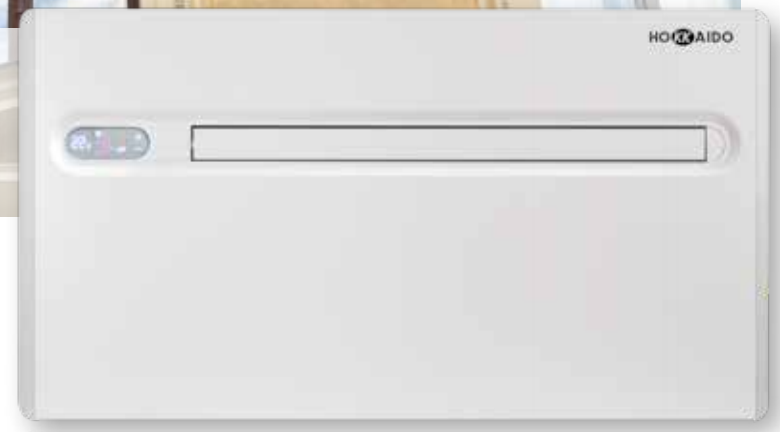


HOKKAIDO

# AIR CONDITIONERS WITHOUT OUTDOOR UNITS


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

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




HTWIS 2350 X1 NEW

HTWIS 1650 G

## Adjustable air flow

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

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

## No frost system for harsh winter climates

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

## Easy installation, less maintenance

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

## Silent operation

Who doesn't love a little peace and quiet?

Thanks to the power used, the internal layout and the use of soundproofing materials, INSIDE achieves exceptional levels of quiet: it is difficult to distinguish it from a normal wall-mounted split unit. Because true well-being is being able to rest or sleep in a comfortable, noise-free environment.

# AIR CONDITIONERS WITHOUT OUTDOOR UNITS



## Remote and on-board control

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

## With retractable outdoor grilles, ideal for old town centres

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

NEW

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

| Test conditions | Room temperature | 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 Value measured according to harmonised standard EN14511. 3 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

# PORTABLE

## For cooling, dehumidification, ventilation

HMCM 90 P

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

### Very compact design

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

### Condensate management system

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

### Available features

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


### Characteristics

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

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

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

# PROJECT VRF R410A FULL DC INVERTER

# EFFICIENCY AND EASE OF INSTALLATION

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

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

# PROJECT VRF R410A FULL DC INVERTER



HOKKAIDO

# XRV MULTI SYSTEM
Outdoor heat pump units

NEW

## XRV PLUS MINI

| 2.5HP |
|---|
| single phase |
| HCNU 806 XRV |

| 3.2HP | 4.5HP |
|---|---|
| single phase | single phase |
| HCNU 1056 XRV | HCNU 1206 XRV |

| 5HP | 6HP |
|---|---|
| single phase | single phase |
| HCNU 1406 XRV | HCNU 1606 XRV |

| 7HP | 8HP | 9HP |
|---|---|---|
| three-phase | three-phase | three-phase |
| HCYU 2006 XRV | HCYU 2246 XRV | HCYU 2606 XRV |

| 10HP | 12HP |
|---|---|
| three-phase | three-phase |
| HCYU 2806 XRV | HCYU 3356 XRV |

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

# XRV MULTI SYSTEM
## Individual outdoor heat pump units

NEW

## XRV INDIVIDUAL

| 14HP | 16HP | 18HP |
|---|---|---|
| three-phase | three-phase | three-phase |
| HCYUM 4006 XRV-I | HCYUM 4506 XRV-I | HCYUM 5006 XRV-I |

| 20HP | 22HP |
|---|---|
| three-phase | three-phase |
| HCYUM 5606 XRV-I | HCYUM 6156 XRV-I |

| 24HP | 26HP | 28HP |
|---|---|---|
| three-phase | three-phase | three-phase |
| HCYUM 6706 XRV-I | HCYUM 7306 XRV-I | HCYUM 7856 XRV-I |

| 30HP | 32HP |
|---|---|
| three-phase | three-phase |
| HCYUM 8506 XRV-I | HCYUM 9006 XRV-I |

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

# 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<br>HCSU 3355 XRV-P | HCSU 2805 XRV-P<br>HCSU 4505 XRV-P | HCSU 2805 XRV-P<br>HCSU 5005 XRV-P | HCSU 2805 XRV-P<br>HCSU 5605 XRV-P | HCSU 2805 XRV-P<br>HCSU 6155 XRV-P |
| 34HP | 36HP | 38HP | 40HP | 42HP |
| 12 + 22 | 18 + 18 | 16 + 22 | 18 + 22 | 20 + 22 |
| HCSU 3355 XRV-P<br>HCSU 6155 XRV-P | HCSU 5005 XRV-P<br>HCSU 5005 XRV-P | HCSU 4505 XRV-P<br>HCSU 6155 XRV-P | HCSU 5005 XRV-P<br>HCSU 6155 XRV-P | HCSU 5605 XRV-P<br>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<br>HCSU 6155 XRV-P | HCSU 3355 XRV-P<br>HCSU 3355 XRV-P<br>HCSU 6155 XRV-P | HCSU 2805 XRV-P<br>HCSU 4505 XRV-P<br>HCSU 6155 XRV-P | HCSU 2805 XRV-P<br>HCSU 5005 XRV-P<br>HCSU 6155 XRV-P | HCSU 2805 XRV-P<br>HCSU 5605 XRV-P<br>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<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 3355 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 5005 XRV-P<br>HCSU 5005 XRV-P<br>HCSU 6155 XRV-P | HCSU 4505 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 5005 XRV-P<br>HCSU 6155 XRV-P<br>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<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 6155 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 3355 XRV-P<br>HCSU 3355 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 2805 XRV-P<br>HCSU 4505 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 2805 XRV-P<br>HCSU 5005 XRV-P<br>HCSU 6155 XRV-P<br>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<br>HCSU 5605 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 2805 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 3355 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 5005 XRV-P<br>HCSU 5005 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 4505 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P |
| 84HP | 86HP | 88HP | | |
| 18 + 22 + 22 + 22 | 20 + 22 + 22 + 22 | 22 + 22 + 22 + 22 | | |
| HCSU 5005 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 5605 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 6155 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | | |

# XRV MULTI SYSTEM
## Outdoor heat recovery units - 3 pipes

## XRV PLUS HEAT RECOVERY

8~12HP

14~18HP

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

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

## HYDROMODULE


HHNMS 140 XRV-R
single phase

## FLOW CONTROLLERS NEW

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

# XRV MULTI SYSTEM

XRV PLUS MINI

XRV INDIVIDUAL

XRV PLUS
HEAT RECOVERY

XRV PREMIUM
MODULAR

## FULL DC INVERTER TECHNOLOGY FOR ALL OUTDOOR UNITS RANGE

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

## HERE'S WHAT MAKES THE HOKKAIDO RANGE "FULL"

**Energy savings and comfort**

Full DC Inverter technology (DC Inverter compressor and DC Inverter fan motor) applied to the XRV system outdoor units ensures high EER and COP values not only at full load, but also at partial load. This guarantees energy savings and high comfort in a wide outside temperature operating range, which has the following average values: cooling from -5° C to +43° C, heating from -20° C to +24° C.

## HIGH EFFICIENCY DC INVERTER COMPRESSOR

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

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

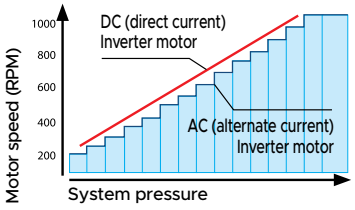
The result is an efficient system that is highly reliable and durable.

## DC FAN MOTOR

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

DC Inverter compressor

DC Inverter fan motor



NEW

# XRV PLUS MINI



HOKKAIDO

# XRV PLUS MINI
## Heat pump

NEW


HCNU 806 XRV


HCNU 1056 XRV
HCNU 1206 XRV


HCNU 1406 XRV
HCNU 1606 XRV

### Splitting and height difference lengths

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

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

Slim, flexible design.

Fan with DC Inverter motor:

- broader fan speed modulations;
- less noise.

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

Broad operating range:

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

Auto-addressing of indoor units.

| Model | | | HCNU 806 XRV | HCNU 1056 XRV | HCNU 1206 XRV | HCNU 1406 XRV | HCNU 1606 XRV |
|---|---|---|---|---|---|---|---|
| **Power** | | **HP** | **2.5** | **3.2** | **4.5** | **5** | **6** |
| Rated capacity[1] | Cooling | kW | 7.20 | 9.00 | 12.20 | 14.00 | 15.50 |
| Rated absorbed power | Cooling | kW | 2.18 | 2.64 | 4.32 | 4.56 | 5.35 |
| Energy efficiency coefficient (rated) | Cooling | EER | 3.30 | 3.41 | 2.83 | 3.07 | 2.90 |
| Rated capacity[2] | Heating | kW | 7.20 | 9.00 | 14.00 | 16.00 | 18.00 |
| Rated absorbed power | Heating | kW | 1.82 | 2.12 | 3.17 | 4.08 | 5.71 |
| Energy performance coefficient (rated) | Heating | COP | 3.95 | 4.29 | 4.40 | 3.92 | 3.20 |
| **Electrical data** | | | | | | | |
| Power supply | | Ph-V-Hz | 1-220~240V-50Hz | | | | |
| Maximum current | | A | 9.45 | 9.45 | 15.50 | 15.50 | 15.50 |
| **Refrigerant circuit/features** | | | | | | | |
| Refrigerant (GWP) | | | R410A (2088) | | | | |
| Quantity refrigerant pre-load (tons of CO2 equivalent) | | Kg | 2.2 (4.594) | 2.5 (5.220) | 3 (6.264) | 3.4 (7.099) | 3.80 (7.934) |
| DC Inverter compressor | | no. / type | 1/ Rotary DC inverter | | | | |
| Diameter refrigerant pipes | Liquid | Ø mm (inch) | 9.53 (3/8") | 9.53 (3/8") | 9.53 (3/8") | 9.53 (3/8") | 9.53 (3/8") |
| | Gas | Ø mm (inch) | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 19.1 (3/4") |
| **Product Specifications** | | | | | | | |
| Dimensions | LxHxD | mm | 982x712x440 | 950x840x426 | | 1040x865x523 | |
| Net weight | | Kg | 55 | 72.5 | 84 | 91.4 | 95.4 |
| Sound pressure level at 1 m | max | dB(A) | 54 | 54 | 56 | 56 | 56 |
| Sound power level | max | dB(A) | 65 | 68 | 70 | 71 | 71 |
| Fan air flow | max | $m^3/h$ | 3700 | 5200 | 5000 | 5400 | 5200 |
| Operating limits (outside temperature) | Cooling | °C | -5~55 | -5~55 | -5~55 | -5~55 | -5~55 |
| | Heating | °C | -15~27 | -15~27 | -15~27 | -15~27 | -15~27 |
| **Max. connectable I.U.** | | **no.** | **4** | **6** | **7** | **8** | **9** |
| Capacity of connectable indoor units | | % | 50 - 130 | 50 - 130 | 50 - 130 | 50 - 130 | 50 - 130 |

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

# XRV PLUS MINI
## Heat pump

NEW

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

### Splitting and height difference lengths

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

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

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

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

Auto-addressing of indoor units.

| Model | | | HCYU 2006 XRV | HCYU 2246 XRV | HCYU 2606 XRV | HCYU 2806 XRV | HCYU 3356 XRV |
|---|---|---|---|---|---|---|---|
| **Power** | | **HP** | **7** | **8** | **9** | **10** | **12** |
| Rated capacity[1] | Cooling | kW | 20.00 | 22.40 | 26.00 | 28.50 | 33.50 |
| Rated absorbed power | Cooling | kW | 5.20 | 6.77 | 10.04 | 12.23 | 15.30 |
| Energy efficiency coefficient (rated) | Cooling | EER | 3.79 | 3.31 | 2.59 | 2.33 | 2.19 |
| Rated capacity[2] | Heating | kW | 20.00 | 22.40 | 26.00 | 28.50 | 33.50 |
| Rated absorbed power | Heating | kW | 4.43 | 5.42 | 6.86 | 7.68 | 10.15 |
| Energy performance coefficient (rated) | Heating | COP | 4.51 | 4.13 | 3.79 | 3.71 | 3.30 |
| **Electrical data** | | | | | | | |
| Power supply | | Ph-V-Hz | 3-380~415V50Hz | | | | |
| Maximum current | | A | 12.00 | 12.40 | 15.00 | 18.40 | 19.60 |
| **Refrigerant circuit / features** | | | | | | | |
| Refrigerant (GWP) | | | R410A (2088) | | | | |
| Quantity refrigerant pre-load (tons of CO2 equivalent) | | Kg | 6.5 (13.572) | 6.5 (13.572) | 6.5 (13.572) | 6.5 (13.572) | 8 (16.704) |
| DC Inverter compressor | | no. / type | 1/ Rotary DC inverter | | | 1/ Rotary DC inverter | |
| Pipe diameter | Liquid | Ø mm (inch) | 9.53 (3/8") | | | | 12.7 (1/2") |
| Pipe diameter | Gas | Ø mm (inch) | 19.1 (3/4") | | 22.2 (7/8") | | 25.4 (1") |
| **Product Specifications** | | | | | | | |
| Dimensions | LxHxD | mm | 1120x1558x528 | | | | |
| Net weight | | Kg | 143 | 143 | 144 | 144 | 157 |
| Sound pressure level at 1 m | max | dB(A) | 58 | | 59 | 60 | 61 |
| Sound power level | max | dB(A) | 78 | | 78 | | 81 |
| Fan air flow | max | m³/h | 9000 | 9000 | 10000 | 11000 | 11300 |
| Operating limits (outside temperature) | Cooling | °C | -5~48 | | | | |
| Operating limits (outside temperature) | Heating | °C | -20~24 | | | | |
| **Max. connectable I.U.** | | **no.** | **10** | **13** | **15** | **16** | **20** |
| Capacity of connected indoor units | | % | 50 - 130 | | | | |

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

NEW

# XRV INDIVIDUAL



HOKKAIDO

# XRV INDIVIDUAL
## Heat pump

NEW

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

### Splitting and height difference lengths

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

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

DC Inverter motor fan:

- broader fan speed modulations;
- less noise.

Self-diagnosis function for main system problems.

**Individual modules from 40 to 90 kW** for simplified installation without the need for modular units.

Elegant, compact design.

Broad operating range:

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

Auto-addressing of indoor units.

**Maximum number of connectable indoor units is 36**.

| Model | | | HCYUM 4006 XRV-I | HCYUM 4506 XRV-I | HCYUM 5006 XRV-I | HCYUM 5606 XRV-I | HCYUM 6156 XRV-I |
|---|---|---|---|---|---|---|---|
| **Power** | | HP | 14 | 16 | 18 | 20 | 22 |
| Rated capacity[1] | Cooling | kW | 40.00 | 45.00 | 50.00 | 56.00 | 61.50 |
| Rated absorbed power | | kW | 11.00 | 12.90 | 14.70 | 16.00 | 20.20 |
| Energy efficiency coefficient (rated) | | EER | 3.65 | 3.50 | 3.40 | 3.50 | 3.05 |
| Rated capacity[2] | Heating | kW | 40.00 | 45.00 | 50.00 | 56.00 | 61.50 |
| Rated absorbed power | | kW | 9.30 | 10.70 | 12.20 | 13.80 | 17.60 |
| Energy performance coefficient (rated) | | COP | 4.30 | 4.20 | 4.10 | 4.05 | 3.50 |
| **Electrical data** | | | | | | | |
| Power supply | | Ph-V-Hz | 3-380~415V50Hz | | | | |
| Maximum current | | A | 25.80 | 25.80 | 26.20 | 35.00 | 37.00 |
| **Refrigerant circuit / features** | | | | | | | |
| Refrigerant (GWP) | | | R410A (2088) | | | | |
| Quantity refrigerant pre-load (tons of CO2 equivalent) | | Kg | 13 (27.144) | 13 (27.144) | 13 (27.144) | 17 (35.496) | 17 (35.496) |
| DC Inverter compressor | | no. / type | 1 / Scroll DC Inverter | | | 2 / Scroll DC Inverter | |
| Pipe diameter | Liquid | Ø mm (inch) | 15.9 (5/8") | | 19.1 (3/4") | | |
| | Gas | Ø mm (inch) | 31.8 (1"1/4) | | | | |
| **Product Specifications** | | | | | | | |
| Dimensions | LxHxD | mm | 1340x1635x850 | | | 1340x1635x825 | |
| Net weight | | Kg | 277 | 277 | 295 | 344 | 344 |
| Sound pressure level at 1 m | max | dB(A) | 62 | 65 | | 66 | 66 |
| Sound power level | max | dB(A) | 85 | 88 | | | |
| Fan air flow | max | m³/h | 13000 | 13000 | 13000 | 17000 | 17000 |
| Operating limits (outside temperature) | Cooling | °C | -5~48 | | | | |
| | Heating | °C | -23~24 | | | | |
| **Max. connectable I.U.** | | **no.** | **23** | **26** | **29** | **33** | **36** |
| Capacity of connectable indoor units | | % | 50 - 130 | | | | |

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

# XRV INDIVIDUAL
## Heat pump

NEW

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

HCYUM 8506 XRV-I
HCYUM 9006 XRV-I

### Splitting and height difference lengths

| Model | HCYUM 6706 XRV-I | HCYUM 7306 XRV-I | HCYUM 7856 XRV-I | HCYUM 8506 XRV-I | HCYUM 9006 XRV-I |
|---|---|---|---|---|---|
| Maximum distance between O.U. and the farthest I.U. | 200 m | 200 m | 200 m | 200 m | 200 m |
| Maximum distance from the first branch pipe to the farthest I.U. | 40 m | 40 m | 40 m | 40 m | 40 m |
| Maximum height difference between O.U. (up high) and I.U. | 90 m | 90 m | 90 m | 90 m | 90 m |
| Maximum height difference between O.U. (down low) and I.U. | 110 m | 110 m | 110 m | 110 m | 110 m |
| Maximum height difference between I.U. | 30 m | 30 m | 30 m | 30 m | 30 m |
| **Maximum length of the pipes** | **1000 m** | **1000 m** | **1000 m** | **1000 m** | **1000 m** |

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

DC Inverter motor fan:

- broader fan speed modulations;
- less noise.

Self-diagnosis function for main system problems.

**Individual modules from 40 to 90 kW** for simplified installation without the need for modular units.

Elegant, compact design.

Broad operating range:

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

Auto-addressing of indoor units.

**Maximum number of connectable indoor units is 53.**

| Model | | | HCYUM 6706 XRV-I | HCYUM 7306 XRV-I | HCYUM 7856 XRV-I | HCYUM 8506 XRV-I | HCYUM 9006 XRV-I |
|---|---|---|---|---|---|---|---|
| **Power** | | HP | 24 | 26 | 28 | 30 | 32 |
| Rated capacity[1] | Cooling | kW | 67.00 | 73.00 | 78.50 | 85.00 | 90.00 |
| Rated absorbed power | | kW | 21.60 | 21.60 | 24.90 | 28.30 | 32.10 |
| Energy efficiency coefficient (rated) | | EER | 3.10 | 3.40 | 3.15 | 3.00 | 2.80 |
| Rated capacity[2] | Heating | kW | 67.00 | 73.00 | 78.50 | 85.00 | 90.00 |
| Rated absorbed power | | kW | 16.80 | 18.10 | 21.80 | 24.30 | 26.50 |
| Energy performance coefficient (rated) | | COP | 4.00 | 4.05 | 3.60 | 3.50 | 3.40 |
| **Electrical data** | | | | | | | |
| Power supply | | Ph-V-Hz | 3-380~415V50Hz | | | | |
| Maximum current | | A | 41.40 | 39.80 | 43.80 | 50.00 | 52.00 |
| **Refrigerant circuit / features** | | | | | | | |
| Refrigerant (GWP) | | | R410A (2088) | | | | |
| Quantity refrigerant pre-load (tons of CO2 equivalent) | | Kg | 22 (45.936) | 22 (45.936) | 22 (45.936) | 25 (52.200) | 25 (52.200) |
| DC Inverter compressor | | no. / type | 2 / Scroll DC Inverter | | | | |
| Pipe diameter | Liquid | Ø mm (inch) | 19.1 (3/4") | 22.2 (7/8") | | | |
| | Gas | Ø mm (inch) | 31.8 (1"1/4) | | | 38.1 (1"1/2) | |
| **Product specifications** | | | | | | | |
| Dimensions | LxHxD | mm | 1730x1830x850 | | | | |
| Net weight | | Kg | 407 | 429 | 429 | 475 | 475 |
| Sound pressure level at 1 m | max | dB(A) | 67 | 68 | | | |
| Sound power level | max | dB(A) | 89 | 90 | | | |
| Fan air flow | max | m³/h | 25000 | 25000 | 25000 | 24000 | 24000 |
| Operating limits (outside temperature) | Cooling | °C | -5~48 | | | | |
| | Heating | °C | -23~24 | | | | |
| **Max. connectable I.U.** | | **no.** | **39** | **43** | **46** | **50** | **53** |
| Capacity of connectable indoor units | | % | 50 - 130 | | | | |

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

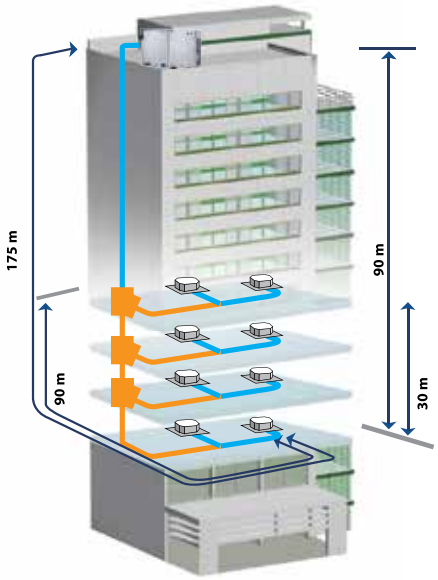
# XRV PREMIUM MODULAR

# 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

**Splitting and height difference lengths**



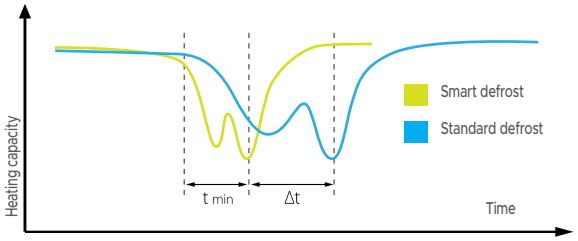

The range is characterised by 8 basic modules: 8, 10, 12, 14, 16, 18, 20 and 22HP. Wide range of available power: from 25.2 to 246.0 kW.

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

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

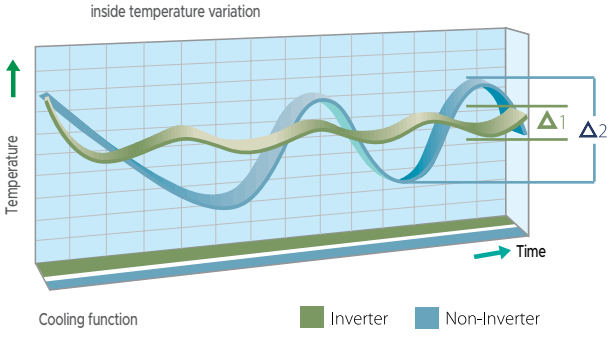
### Smart defrost

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




### Fast cooling and heating

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




The XRV PREMIUM Modular series can connect up to 64 indoor units.

Total length of system piping: 1000 m

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

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

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

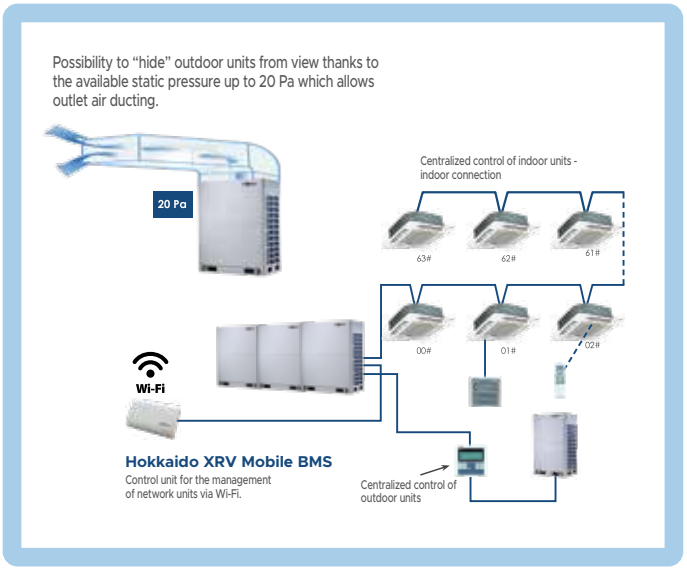
Maximum height difference between O.U. (down low) and I.U. = 110 m

Maximum height difference between I.U. = 30 m

### Installation and operation

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

### Network wiring diagram



# 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 capacity (1) | Cooling | kW | 25.20 | 28.00 | 33.50 | 40.00 | 45.00 | 50.00 | 56.00 |
| Rated absorbed power | Cooling | kW | 6.25 | 7.49 | 8.91 | 11.66 | 13.64 | 14.71 | 16.47 |
| Rated energy efficiency coefficient | Cooling | EER | 4.03 | 3.74 | 3.76 | 3.43 | 3.30 | 3.40 | 3.40 |
| Seasonal energy efficiency (ηs,c) | Cooling | % | 211.4 | 211 | 199 | 194.6 | 192.6 | 194.6 | 194.2 |
| Rated capacity (2) | Heating | kW | 27.00 | 31.50 | 37.50 | 40.00 | 45.00 | 50.00 | 56.00 |
| Rated absorbed power | Heating | kW | 5.30 | 6.89 | 8.91 | 9.83 | 11.69 | 12.50 | 14.00 |
| Rated energy performance coefficient | Heating | COP | 5.09 | 4.57 | 4.21 | 4.07 | 3.85 | 4.00 | 4.00 |
| Seasonal energy efficiency (ηs,c) average | Heating | % | 133.8 | 133.8 | 133.4 | 135.4 | 135.4 | 133.8 | 133 |
| **Electrical data** | | | | | | | | | |
| Power supply | | Ph-V-Hz | 3-380~415V-50Hz | 3-380~415V-50Hz | 3-380~415V-50Hz | 3-380~415V-50Hz | 3-380~415V-50Hz | 3-380~415V-50Hz | 3-380~415V-50Hz |
| Maximum current | | A | 20.00 | 21.00 | 23.00 | 27.30 | 29.90 | 34.40 | 41.20 |
| **Refrigerant circuit / features** | | | | | | | | | |
| Refrigerant | | type (GWP) | R410A (2088) | R410A (2088) | R410A (2088) | R410A (2088) | R410A (2088) | R410A (2088) | R410A (2088) |
| Quantity refrigerant pre-load (tons of CO2 equivalent)(3) | | Kg (t) | 9 (18.792) | 9 (18.792) | 11 (22.968) | 13 (27.144) | 13 (27.144) | 13 (27.144) | 16 (33.408) |
| DC Inverter compressor | | no. / type | 1/Scroll DC Inverter | 1/Scroll DC Inverter | 1/Scroll DC Inverter | 2/Scroll DC Inverter | 2/Scroll DC Inverter | 2/Scroll DC Inverter | 2/Scroll DC Inverter |
| Diameter refrigerant pipes(4) | Liquid | Ø mm (inch) | 12.7 (1/2") | 12.7 (1/2") | 12.7 (1/2") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") |
| Diameter refrigerant pipes(4) | 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) |
| Diameter refrigerant pipes(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 | up-down OU | m | 90 - 110 | 90 - 110 | 90 - 110 | 90 - 110 | 90 - 110 | 90 - 110 | 90 - 110 |
| **Product Specifications** | | | | | | | | | |
| Dimensions (5) | LxHxD | mm | 990x1635x790 | 990x1635x790 | 990x1635x790 | 1340x1635x790 | 1340x1635x790 | 1340x1635x790 | 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 limit (outside temperature) | Cooling | °C / DB | -5 / 43 | -5°C / 43°C | -5°C / 43°C | -5°C / 43°C | -5°C / 43°C | -5°C / 43°C | -5°C / 43°C |
| Operating limit (outside temperature) | Heating | °C / WB | -20 / 24 | -20°C / 24°C | -20°C / 24°C | -20°C / 24°C | -20°C / 24°C | -20°C / 24°C | -20°C / 24°C |
| **Max. connectable IU** | | **no.** | **13** | **16** | **20** | **23** | **26** | **29** | **33** |
| Capacity of connectable indoor units | | % | 50 - 130 | 50 - 130 | 50 - 130 | 50 - 130 | 50 - 130 | 50 - 130 | 50 - 130 |

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

(1) Cooling capacity tested in accordance with ISO 5151 Standards; outside temperature 35° C DB, 24° C WB and inside temperature 27° C DB, 19° WB.
(2) Heating capacity tested in accordance with ISO 5151 Standards; outside temperature 7° C DB, 6° C WB and inside temperature 20° C DB, 15° C WB.
(3) Refer to the label inside the unit to calculate the additional refrigerant charge.
(4) When several outdoor units are paired the diameters indicated refer to the section up to the first branch, with a length equivalent or less than 90m.
(5) Space between the paired units = 100 mm.

# XRV PREMIUM MODULAR
## Heat pump - 2 pipes

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

| HCSU 5005 XRV-P<br>HCSU 5005 XRV-P<br>HCSU 6155 XRV-P | HCSU 4505 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 5005 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 5605 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 6155 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 3355 XRV-P<br>HCSU 3355 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 2805 XRV-P<br>HCSU 4505 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 2805 XRV-P<br>HCSU 5005 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 2805 XRV-P<br>HCSU 5605 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 2805 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 3355 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P |
|---|---|---|---|---|---|---|---|---|---|---|
| **58 (18+18+22)** | **60 (16+22+22)** | **62 (18+22+22)** | **64 (20+22+22)** | **66 (22+22+22)** | **68 (12+12+22+22)** | **70 (10+16+22+22)** | **72 (10+18+22+22)** | **74 (10+20+22+22)** | **76 (10+22+22+22)** | **78 (12+22+22+22)** |
| 161.50 | 168.00 | 173.00 | 179.00 | 184.50 | 190.00 | 196.00 | 201.00 | 207.00 | 212.50 | 218.00 |
| 49.26 | 53.32 | 54.39 | 56.15 | 59.52 | 57.50 | 60.81 | 61.88 | 63.64 | 67.01 | 68.43 |
| 3.28 | 3.15 | 3.18 | 3.19 | 3.10 | 3.30 | 3.22 | 3.25 | 3.25 | 3.17 | 3.19 |
| 192.3 | 189.4 | 190.1 | 189.9 | 187.8 | 193.4 | 194.8 | 195.3 | 195.2 | 193.6 | 190.6 |
| 161.50 | 168.00 | 173.00 | 179.00 | 184.50 | 198.00 | 199.50 | 204.50 | 210.50 | 216.50 | 222.00 |
| 41.18 | 44.05 | 44.86 | 46.36 | 48.54 | 50.18 | 50.94 | 51.75 | 53.25 | 55.43 | 57.45 |
| 3.92 | 3.81 | 3.86 | 3.86 | 3.80 | 3.95 | 3.92 | 3.95 | 3.95 | 3.90 | 3.86 |
| 133.5 | 133.8 | 133.3 | 133 | 133 | 133.2 | 133.8 | 133.4 | 133.2 | 133.2 | 133.1 |
| | | | | | | | | | | |
| 3-380~415V-50Hz | 3-380~415V-50Hz | 3-380~415V-50Hz | 3-380~415V-50Hz | 3-380~415V-50Hz | 3-380~415V-50Hz | 3-380~415V-50Hz | 3-380~415V-50Hz | 3-380~415V-50Hz | 3-380~415V-50Hz | 3-380~415V-50Hz |
| 113.70 | 119.70 | 124.20 | 131.00 | 134.70 | 135.80 | 140.70 | 145.20 | 152.00 | 155.70 | 157.70 |
| | | | | | | | | | | |
| R410A (2088) | R410A (2088) | R410A (2088) | R410A (2088) | R410A (2088) | R410A (2088) | R410A (2088) | R410A (2088) | R410A (2088) | R410A (2088) | R410A (2088) |
| 42 (87.696) | 45 (93.960) | 45 (93.960) | 48 (100.224) | 48 (100.224) | 54 (112.752) | 54 (112.752) | 54 (112.752) | 57 (119.016) | 57 (119.016) | 59 (123.192) |
| 6/Scroll DC Inverter | 6/Scroll DC Inverter | 6/Scroll DC Inverter | 6/Scroll DC Inverter | 6/Scroll DC Inverter | 6/Scroll DC Inverter | 7/Scroll DC Inverter | 7/Scroll DC Inverter | 7/Scroll DC Inverter | 7/Scroll DC Inverter | 7/Scroll DC Inverter |
| 22.2 (7/8") | 22.2 (7/8") | 22.2 (7/8") | 22.2 (7/8") | 22.2 (7/8") | 25.4 (1") | 25.4 (1") | 25.4 (1") | 25.4 (1") | 25.4 (1") | 25.4 (1") |
| 41.3 (1"5/8") | 41.3 (1"5/8") | 41.3 (1"5/8") | 41.3 (1"5/8") | 41.3 (1"5/8") | 44.5 (1"3/4") | 44.5 (1"3/4") | 44.5 (1"3/4") | 44.5 (1"3/4") | 44.5 (1"3/4") | 44.5 (1"3/4") |
| 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") |
| 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| 90 - 110 | 90 - 110 | 90 - 110 | 90 - 110 | 90 - 110 | 90 - 110 | 90 - 110 | 90 - 110 | 90 - 110 | 90 - 110 | 90 - 110 |
| | | | | | | | | | | |
| 4220x1635x790 | 4220x1635x790 | 4220x1635x790 | 4220x1635x790 | 4220x1635x790 | 4960x1635x790 | 5310x1635x790 | 5310x1635x790 | 5310x1635x790 | 5310x1635x790 | 5310x1635x790 |
| 950 | 977 | 985 | 1020 | 1020 | 1154 | 1196 | 1204 | 1239 | 1239 | 1257 |
| 71 | 71 | 71 | 71 | 71 | 70 | 71 | 71 | 71 | 71 | 71 |
| 93 | 93 | 93 | 93 | 93 | 92 | 93 | 93 | 93 | 93 | 93 |
| 48000 | 46000 | 48000 | 48000 | 48000 | 56000 | 58000 | 60000 | 60000 | 60000 | 60000 |
| -5°C / 43°C | -5°C / 43°C | -5°C / 43°C | -5°C / 43°C | -5°C / 43°C | -5°C / 43°C | -5°C / 43°C | -5°C / 43°C | -5°C / 43°C | -5°C / 43°C | -5°C / 43°C |
| -20°C / 24°C | -20°C / 24°C | -20°C / 24°C | -20°C / 24°C | -20°C / 24°C | -20°C / 24°C | -20°C / 24°C | -20°C / 24°C | -20°C / 24°C | -20°C / 24°C | -20°C / 24°C |
| **64** | **64** | **64** | **64** | **64** | **64** | **64** | **64** | **64** | **64** | **64** |
| 50 - 130 | 50 - 130 | 50 - 130 | 50 - 130 | 50 - 130 | 50 - 130 | 50 - 130 | 50 - 130 | 50 - 130 | 50 - 130 | 50 - 130 |

(1) Cooling capacity tested in accordance with ISO 5151 Standards; outside temperature 35° C DB, 24° C WB and inside temperature 27° C DB, 19° WB.
(2) Heating capacity tested in accordance with ISO 5151 Standards; outside temperature 7° C DB, 6° C WB and inside temperature 20° C DB, 15° C WB.
(3) Refer to the label inside the unit to calculate the additional refrigerant charge.
(4) When several outdoor units are paired the diameters indicated refer to the section up to the first branch, with a length equivalent or less than 90m.
(5) Space between the paired units = 100 mm.

# XRV PREMIUM MODULAR
## Heat pump - 2 pipes

| Model / Combination | | | HCSU 5005 XRV-P<br>HCSU 5005 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 4505 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 5005 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 5605 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P | HCSU 6155 XRV-P<br>HCSU 6155 XRV-P<br>HCSU 6155 XRV-P<br>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 capacity (1) | Cooling | kW | 223.00 | 229.50 | 234.50 | 240.50 | 246.00 |
| Rated absorbed power | | kW | 69.10 | 73.16 | 74.23 | 75.99 | 79.36 |
| Rated energy efficiency coefficient | | EER | 3.23 | 3.14 | 3.16 | 3.16 | 3.10 |
| Seasonal energy efficiency (ηs,c) | | % | 191.2 | 189 | 189.5 | 189.4 | 187.8 |
| Rated capacity (2) | Heating | kW | 223.00 | 229.50 | 234.50 | 240.50 | 246.00 |
| Rated absorbed power | | kW | 57.36 | 60.23 | 61.04 | 62.54 | 64.72 |
| Rated energy performance coefficient | | COP | 3.89 | 3.81 | 3.84 | 3.85 | 3.80 |
| Seasonal energy efficiency (ηs,c) average | | % | 133.4 | 133.6 | 133.2 | 133 | 133 |
| **Electrical data** | | | | | | | |
| Power supply | | Ph-V-Hz | 3-380~415V-50Hz | 3-380~415V-50Hz | 3-380~415V-50Hz | 3-380~415V-50Hz | 3-380~415V-50Hz |
| Maximum current | | A | 158.60 | 164.60 | 169.10 | 175.90 | 179.60 |
| **Refrigerant circuit / features** | | | | | | | |
| Refrigerant | | type (GWP) | R410A (2088) | R410A (2088) | R410A (2088) | R410A (2088) | R410A (2088) |
| Quantity refrigerant pre-load (tons of CO2 equivalent) (3) | | Kg (t) | 58 (121.104) | 61 (127.368) | 61 (127.368) | 64 (133.632) | 64 (133.632) |
| DC Inverter compressor | | no. / type | 8/Scroll DC Inverter | 8/Scroll DC Inverter | 8/Scroll DC Inverter | 8/Scroll DC Inverter | 8/Scroll DC Inverter |
| Diameter refrigerant pipes(4) | Liquid | Ø mm (inch) | 25.4 (1") | 25.4 (1") | 25.4 (1") | 25.4 (1") | 25.4 (1") |
| | Gas | Ø mm (inch) | 44.5 (1"3/4") | 44.5 (1"3/4") | 44.5 (1"3/4") | 44.5 (1"3/4") | 44.5 (1"3/4") |
| | Parallel oil | Ø mm (inch) | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") | 6.35 (1/4") |
| Max pipe length | | m | 1000 | 1000 | 1000 | 1000 | 1000 |
| Max height difference between indoor units | | m | 30 | 30 | 30 | 30 | 30 |
| Max height difference between outdoor and indoor units | up-down OU | m | 90 - 110 | 90 - 110 | 90 - 110 | 90 - 110 | 90 - 110 |
| **Product specifications** | | | | | | | |
| Dimensions (5) | 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 limit (outside temperature) | Cooling | °C / DB | -5°C / 43°C | -5°C / 43°C | -5°C / 43°C | -5°C / 43°C | -5°C / 43°C |
| | Heating | °C / WB | -20°C / 24°C | -20°C / 24°C | -20°C / 24°C | -20°C / 24°C | -20°C / 24°C |
| **Max. connectable I.U.** | | **no.** | **64** | **64** | **64** | **64** | **64** |
| Capacity of connectable indoor units | | % | 50 - 130 | 50 - 130 | 50 - 130 | 50 - 130 | 50 - 130 |

(1) Cooling capacity tested in accordance with ISO 5151 Standards; outside temperature 35° C DB, 24° C WB and inside temperature 27° C DB, 19° WB.
(2) Heating capacity tested in accordance with ISO 5151 Standards; outside temperature 7° C DB, 6° C WB and inside temperature 20° C DB, 15° C WB.
(3) Refer to the label inside the unit to calculate the additional refrigerant charge.
(4) When several outdoor units are paired the diameters indicated refer to the section up to the first branch, with a length equivalent or less than 90m.
(5) Space between the paired units = 100 mm.

NEW

# XRV PLUS HEAT RECOVERY



HOKKAIDO

# XRV PLUS HEAT RECOVERY
## Heat recovery - 3 pipes

NEW

**FULL DC INVERTER**
HCSRU 2526 XRV-R
HCSRU 2806 XRV-R
HCSRU 3356 XRV-R

**FULL DC INVERTER**
HCSRU 4006 XRV-R
HCSRU 4506 XRV-R
HCSRU 5006 XRV-R

### Splitting and height difference lengths

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

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

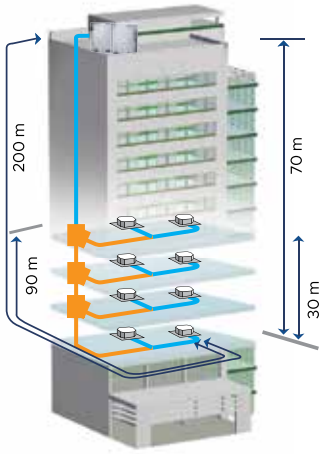
Max distance from the first branch pipe to the farthest I.U. = 90 m

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

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

Max height difference between I.U. = 30 m

Maximum length of the pipes = 1000 m



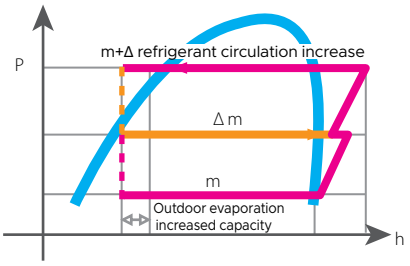

### Heating during defrost

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

### High performance

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

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



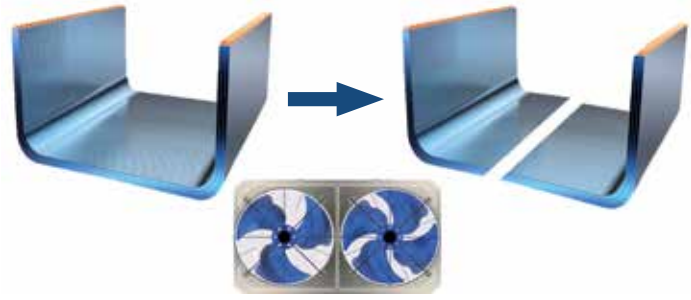

### Fan and exchanger

Outdoor unit heat exchangers are divided in two parts: a left and right structure, so that there are two independent circuits in one outdoor unit.

Each outdoor unit has two fans, which allow control each heat exchanger structure individually.

2-pipe system

3-pipe system



### Branch pipe kit

| Branch pipe downstream of the first indoor unit | |
|---|---|
| Code | A - Capacity of connectable indoor units (kW) |
| DIS-22-1RI/B | A<16.6 |
| DIS-180-1RI/B | 16.6≤A<33.0 |
| DIS-371-1RI/B | 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 unit connection | |
|---|---|
| Code | Outdoor Units |
| DOS 2-1RH Plus | 2 Outdoor KITS |
| DOS 3-1RH Plus | 3 Outdoor KITS |
| OH-BAL-KT* | T-shaped fitting for oil parallel pipe |

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

# XRV PLUS HEAT RECOVERY
## Heat recovery - 3 pipes

NEW

## OPERATING MODE

### Heating function

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

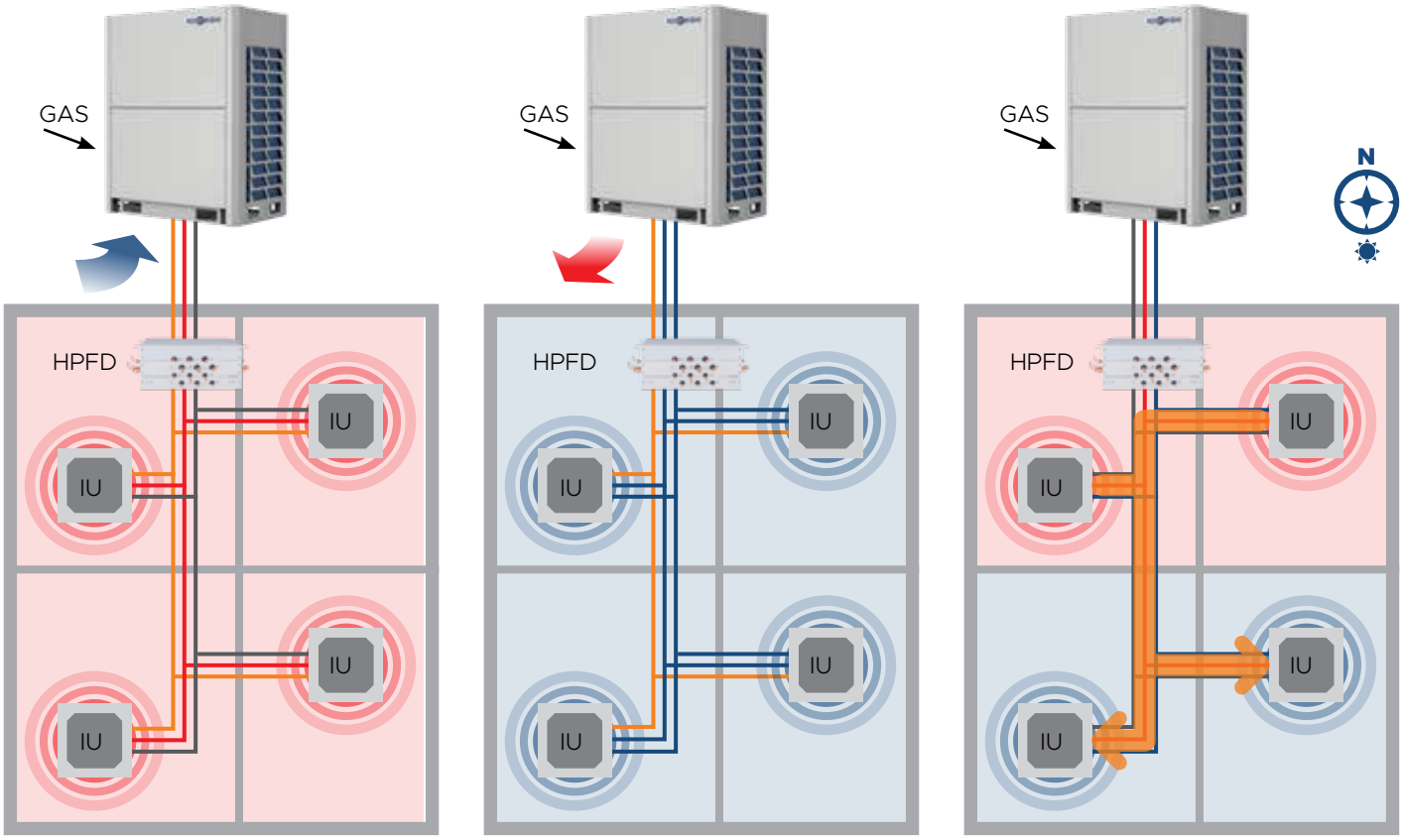
### Cooling function

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

### Energy recovery

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

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



# XRV PLUS HEAT RECOVERY
## Heat recovery - 3 pipes

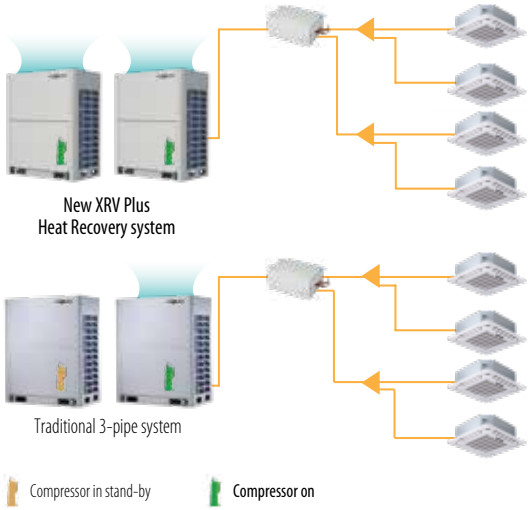
NEW

## HIGH EFFICIENCY

### Independent control of exchangers and compressors

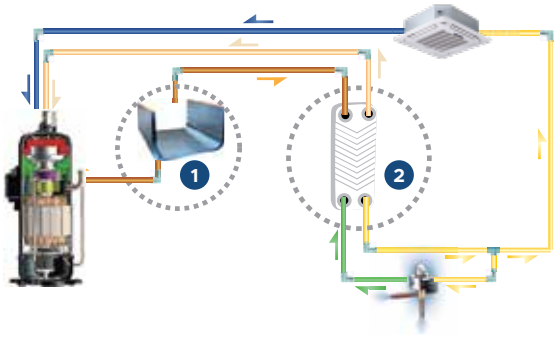
The control of the heat exchangers and compressors is independent, to provide maximum performance in both cooling and heating.

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




### Additional exchanger for sub-cooling control

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




## WIDE RANGE OF APPLICATION

### Combinable system

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

8-10-12HP
(single fan)

14-16-18HP
(dual fan)

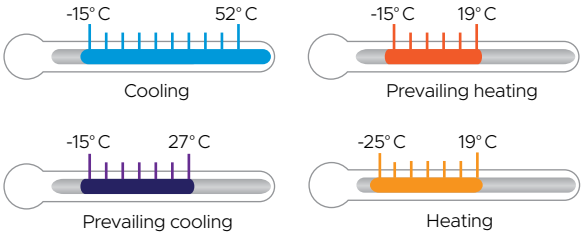
20-36HP

38-54HP

### Broad operating range

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

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



# XRV PLUS HEAT RECOVERY
## Heat recovery - 3 pipes

NEW

## HIGHLY RELIABLE

### Outdoor unit rotation cycle

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

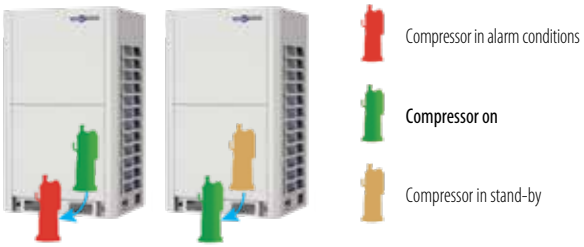

cycle 1


cycle 2


cycle 3

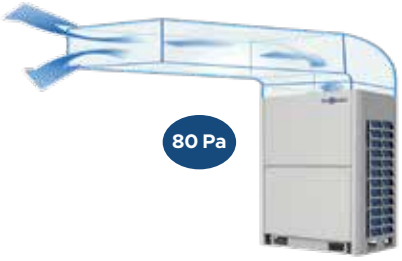
### Compressor backup

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




### Fan static pressure

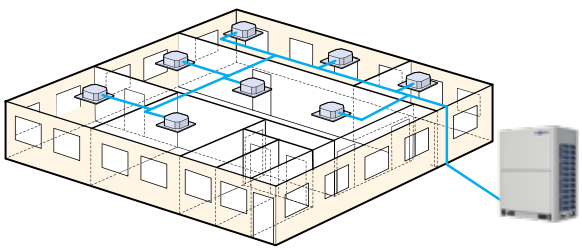
The fan can be set to provide up to 80 Pa of useful static pressure.
In this way, the outdoor unit can be installed in technical rooms or in areas where the correct natural flow of air cannot be guaranteed, channelling the expulsion of air from the unit to the outside.




## EASY INSTALLATION AND MAINTENANCE

### Automatic addressing

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



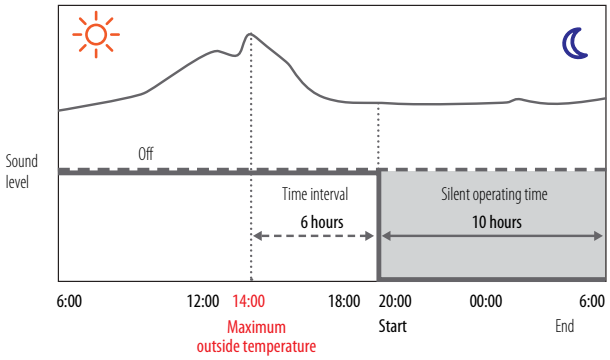
# XRV PLUS HEAT RECOVERY
## Heat recovery - 3 pipes

NEW

## UNPARALLELED COMFORT

### Silent mode

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




### Continuous heating

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


Ordinary heating operation

Continuous heating operation

Continuous heating operation

## FLOW CONTROLLER

### Single HPDF

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


HPFD 1-8 XRV-R

### Multiple HPDF

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


HPFD 4-20 XRV-R


HPFD 6-30 XRV-R


HPFD 8-40 XRV-R


HPFD 10-47 XRV-R


HPFD 12-47 XRV-R

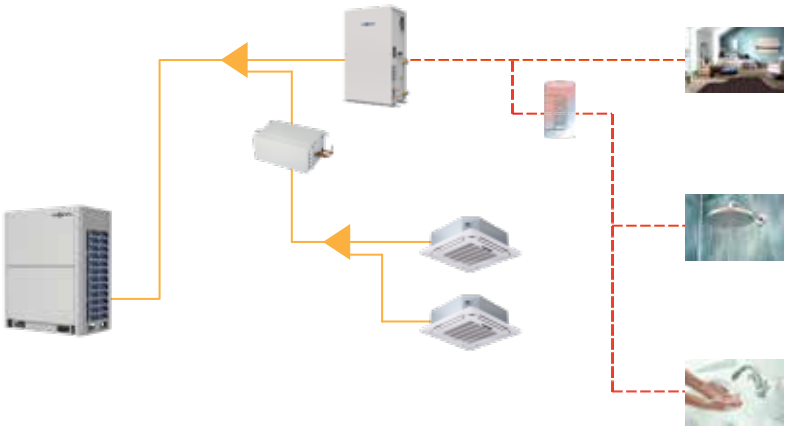
# XRV PLUS HEAT RECOVERY
## Heat recovery - 3 pipes

NEW

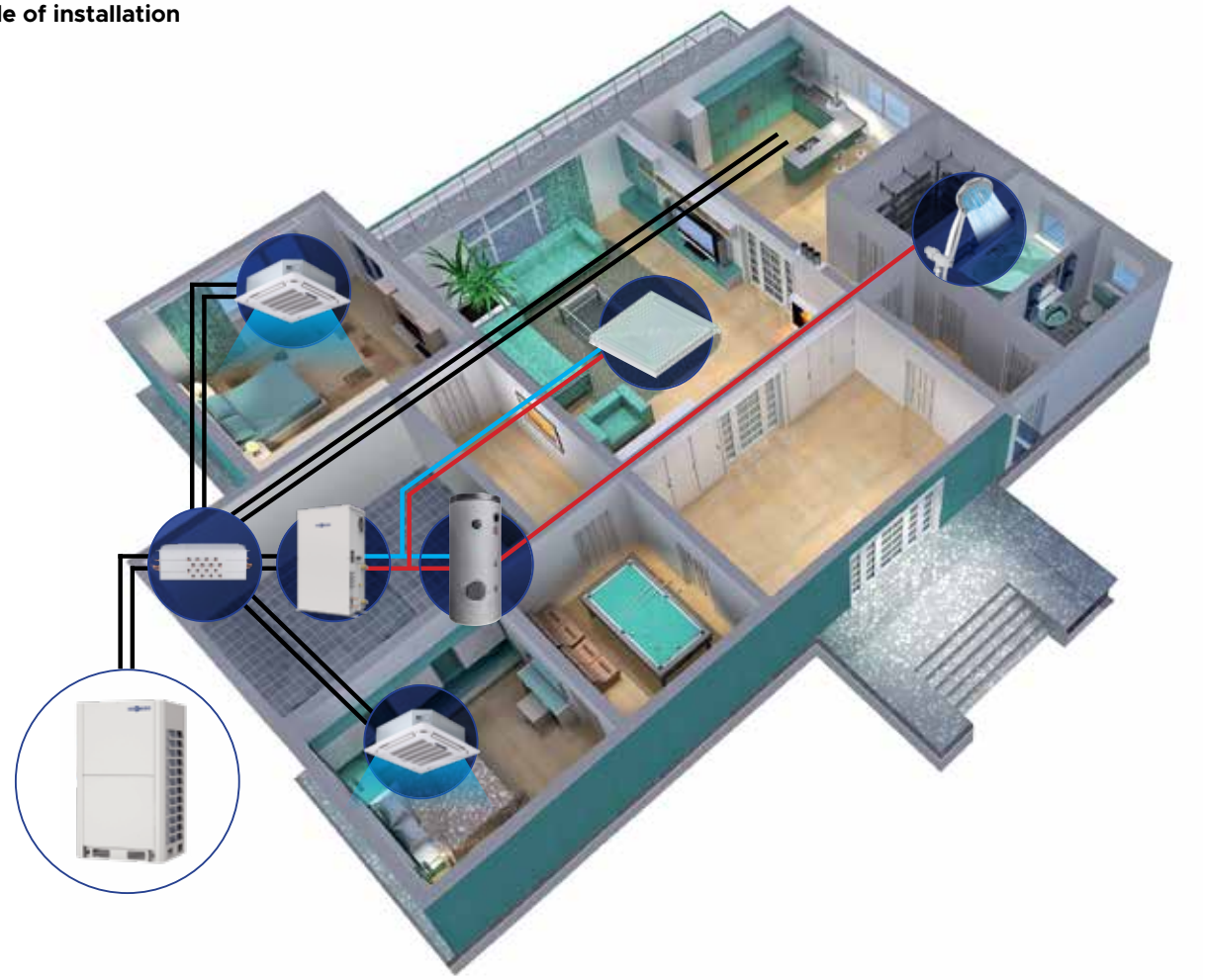
### HOT WATER AND HEATING

**Maximum flexibility of use**

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



**Example of installation**



# XRV PLUS HEAT RECOVERY
## Heat recovery - 3 pipes

NEW

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

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

1. Cooling capacity tested in accordance with ISO 5151 Standards; outside temperature 35° C DB, 24° C WB and inside temperature 27° C DB, 19° WB.
2. Heating capacity tested in accordance with ISO 5151 Standards; outside temperature 7° C DB, 6° C WB and inside temperature 20° C DB, 15° C WB.
3. Refer to the label inside the unit to calculate the additional refrigerant charge.
4. When several outdoor units are paired the diameters indicated refer to the section up to the first branch, with a length equivalent or less than 90m.
5. Space between the paired units = 100 mm.
6. Operation between -15° C and -5° C only possible in combination with single HPFD.
7. The maximum percentage varies depending on the type of indoor units connected. Please refer to the technical manual for specific information.

# XRV PLUS HEAT RECOVERY
## Heat recovery - 3 pipes

NEW

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

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

1. Cooling capacity tested in accordance with ISO 5151 Standards; outside temperature 35° C DB, 24° C WB and inside temperature 27° C DB, 19° WB.
2. Heating capacity tested in accordance with ISO 5151 Standards; outside temperature 7° C DB, 6° C WB and inside temperature 20° C DB, 15° C WB.
3. Refer to the label inside the unit to calculate the additional refrigerant charge.
4. When several outdoor units are paired the diameters indicated refer to the section up to the first branch, with a length equivalent or less than 90m.
5. Space between the paired units = 100 mm.
6. Operation between -15° C and -5° C only possible in combination with single HPFD.
7. The maximum percentage varies depending on the type of indoor units connected. Please refer to the technical manual for specific information.

# XRV PLUS HEAT RECOVERY
## Flow dividers

NEW

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

Several versions are available, with single or multiple connections.

| Model | | | | HPFD 1-8 XRV-R | HPFD 4-20 XRV-R | HPFD 6-30 XRV-R | HPFD 8-40 XRV-R | HPFD 10-47 XRV-R | HPFD 12-47 XRV-R |
|---|---|---|---|---|---|---|---|---|---|
| **Number of connections** | | | | **1** | **4** | **6** | **8** | **10** | **12** |
| Max. number of indoor units per each connection[1] | | | | 8 | 5 | 5 | 5 | 5 | 5 |
| Max. total number of indoor units per divider[1] | | | | 8 | 20 | 30 | 40 | 47 | 47 |
| Max. capacity for each connection[2] | | | kW | 32 | 16 | 16 | 16 | 16 | 16 |
| Max. total capacity of indoor units per divider | | | kW | 32 | 49 | 63 | 85 | 85 | 85 |
| Pipe connections | Connection to outdoor unit | Liquid | Ø mm | 9.53 / 12.7 | 9.53 / 12.7 / 15.9 / 19.1 | 9.53 / 12.7 / 15.9 / 19.1 | 12.7 / 15.9 / 19.1 / 22.2 | 12.7 / 15.9 / 19.1 / 22.2 | 12.7 / 15.9 / 19.1 / 22.2 |
| | | Gas-High pressure | Ø mm | 15.9 / 19.1 / 22.2 | 19.1 / 22.2 / 28.6 | 19.1 / 22.2 / 28.6 | 22.2 / 28.6 / 34.9 | 22.2 / 28.6 / 34.9 | 22.2 / 28.6 / 34.9 |
| | | Gas- Low pressure | Ø mm | 12.7 / 15.9 / 19.1 | 15.9 / 19.1 / 22.2 / 28.6 | 15.9 / 19.1 / 22.2 / 28.6 | 19.1 / 22.2 / 28.6 | 19.1 / 22.2 / 28.6 | 19.1 / 22.2 / 28.6 |
| | Connection to indoor unit | Liquid | Ø mm | 6.35 / 9.53 | 6.35 / 9.53 | 6.35 / 9.53 | 6.35 / 9.53 | 6.35 / 9.53 | 6.35 / 9.53 |
| | | Gas | Ø mm | 12.7 / 15.9 | 12.7 / 15.9 | 12.7 / 15.9 | 12.7 / 15.9 | 12.7 / 15.9 | 12.7 / 15.9 |
| External dimensions | | LxHxD | mm | 440x195x296 | 668x250x574 | 668x250x574 | 974x250x574 | 974x250x574 | 974x250x574 |
| Net weight | | | Kg | 10.5 | 33 | 36 | 48 | 51 | 54 |
| Sound pressure level[3] | | | dB(A) | 40 | 44 | 45 | 47 | 47 | 47 |
| Sound power level[3] | | | dB(A) | 60 | 63 | 65 | 65 | 65 | 65 |
| Power supply | | | Ph-V-Hz | 1-220~240V-50Hz | | | | | |

1. Any indoor units connected to the same connection as the MS box must run in the same mode.
2. For MS boxes with 4 to 12 connections, indoor units with a capacity of 16 kW to 28 kW can be connected to 2 connections through connection kit FQZHN-09A.
3. The sound levels are measured in a semi-anechoic chamber, 1 m below the MS BOX during the mode change.
Avoid installing the MS BOXes in environments with low noise requirements.

# Hydromodule

NEW

**HHNMS 140 XRV-R**

| Model | | | HHNMS 140 XRV-R |
|---|---|---|---|
| Rated capacity[1] | Heating | kW | 14 |
| Operating limits (outside temperature) | Heating | °C | -20~30 |
| | Domestic water | °C | -20~43 |
| Delivery water temperature adjustment range | | °C | 25~80 |
| **Electrical data** | | | |
| Power supply | | Ph-V-Hz | 1-220~240V-50Hz |
| Maximum current | | A | 16 |
| **Product specifications** | | | |
| External dimensions | LxHxD | mm | 450x795x300 |
| Net weight | | Kg | 63 |
| Sound pressure level | | dB(A) | 43 |
| Sound power level | | dB(A) | 54 |
| Water flow | Std (Min~Max) | m³/h | 2.4 (1.2~2.9) |
| Water pressure | Min~Max | bar | 1~3 |
| Connections | Freon Liquid/Gas | Ø mm (inch) | 9.52 (3/8") / 12.7 (1/2") |
| | Inlet/outlet water | Ø mm (inch) | 25.4 (1") |
| Serial control | | type | Wired remote control |

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

# PREMIUM - P SERIES INDOOR UNITS

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

# HTFU XRV-P
## Compact cassette 60x60

The control must be purchased as an accessory


**Ultra-compact design**

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

360° air diffusion

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

| Model | | | HTFU 225 XRV-P | HTFU 285 XRV-P | HTFU 365 XRV-P | HTFU 455 XRV-P |
|---|---|---|---|---|---|---|
| Control (included) | | type | none | | | |
| Rated cooling capacity | | kW | 2.20 | 2.80 | 3.60 | 4.50 |
| Rated heating capacity | | kW | 2.40 | 3.20 | 4.00 | 5.00 |
| **Electrical data** | | | | | | |
| Power supply | | Ph-V-Hz | 1~220~240V-50Hz | | | |
| Electrical absorption | | W | 35 | 35 | 40 | 50 |
| **Product specifications** | | | | | | |
| Air flow (1) | Max~Min | m³/h | 576~405 | | 604~400 | |
| Sound pressure level at 1.4 m (1) | Max~Min | dB(A) | 35~22 | | 41~28 | |
| Sound power level (1) | Max~Min | dB(A) | 51~38 | | 56~43 | |
| External dimensions | LxHxD | mm | 630x260x570 | | | |
| Net weight | | Kg | 18 | | 19.2 | |
| Refrigerant connections | Liquid/Gas | Ø mm (inch) | 6.35 (1/4") - 12.7 (1/2") | | | |
| Condensate drain | | Ø mm | 32 | | | |
| **Accessories** | | | | | | |
| Decorative panel | | | TFP 155 XRV-P | | | |
| Dimensions | LxHxD | mm | 647x50x647 | | | |
| Net weight | | Kg | 2.5 | | | |
| Remote control | | | DHIR-5-6-XRV-K-P | | | |
| Wired remote control | | | DHW-5-6-XRV-K-P | | | |
| **Optional parts** | | | | | | |
| Centralized control | | | see page 117 | | | |

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

# HTBU XRV-P
## Cassette 84x84

The control must be purchased as an accessory


Optimised fan design to attenuate air resistance and reduce noise level

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

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

| Model | | | HTBU 565 XRV-P | HTBU 715 XRV-P | HTBU 905 XRV-P | HTBU 1125 XRV-P | HTBU 1405 XRV-P |
|---|---|---|---|---|---|---|---|
| Control (included) | | type | none | | | | |
| Rated cooling capacity | | kW | 5.60 | 7.10 | 9.00 | 11.20 | 14.00 |
| Rated heating capacity | | kW | 6.30 | 8.00 | 10.00 | 12.50 | 16.00 |
| **Electrical data** | | | | | | | |
| Power supply | | Ph-V-Hz | 1~220~240V-50Hz | | | | |
| Electrical absorption | | W | 31 | 46 | 75 | | 94 |
| **Product specifications** | | | | | | | |
| Air flow (1) | Max~Min | m³/h | 1029~704 | 1200~748 | 1596~1034 | | 1727~1224 |
| Sound pressure level at 1.4 m (1) | Max~Min | dB(A) | 43~34 | 45~34 | 47~36 | | 50~38 |
| Sound power level (1) | Max~Min | dB(A) | 56~47 | 58~47 | 61~50 | | 64~52 |
| External dimensions | LxHxD | 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 | | | | |
| **Accessories** | | | | | | | |
| Decorative panel | | | TBP 712 IHXR | | | | |
| Dimensions | LxHxD | mm | 950x70x950 | | | | |
| Net weight | | Kg | 5.8 | | | | |
| Remote control | | | DHIR-5-6-XRV-K-P | | | | |
| Wired remote control | | | DHW-5-6-XRV-K-P | | | | |
| **Optional parts** | | | | | | | |
| Centralized control | | | see page 117 | | | | |

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

NEW

# CLEAN AIR UV-KIT
# AIR PURIFIYING DEVICE FOR DUCTED SYSTEMS

TMS-UV02
TMS-UV04

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

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

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

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

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

This product is therefore capable of:

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

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

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

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

# HUCU XRV-P

## Ducted with medium static pressure

The control must be purchased as an accessory

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

Available static pressure: **50 Pa** (2.20~7.10 kW); **100 Pa** (9.00~11.20 kW); **150 Pa** (14.00 kW)

Air intake from bottom or rear

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

Compatible with systems AIRZONE

| Model | | | HUCU 225 XRV-P | HUCU 285 XRV-P | HUCU 365 XRV-P | HUCU 455 XRV-P |
|---|---|---|---|---|---|---|
| Control (included) | | type | none | | | |
| Rated cooling capacity | | kW | 2.20 | 2.80 | 3.60 | 4.50 |
| Rated heating capacity | | kW | 2.60 | 3.20 | 4.00 | 5.00 |
| **Electrical data** | | | | | | |
| Power supply | | Ph-V-Hz | 1~220~240V-50Hz | | | |
| Electrical absorption | | W | 40 | 40 | 45 | 92 |
| **Product specifications** | | | | | | |
| Air flow (1) | Max~Min | m³/h | 520~300 | | 580~370 | 800~400 |
| Fan static pressure | Std/Max | Pa | 10/50 | | | |
| Sound pressure level at 1.4 m (1) | Max~Min | dB(A) | 32~23 | | 33~25 | 36~25 |
| Sound power level (1) | Max~Min | dB(A) | 50~41 | | 51~43 | 54~43 |
| Dimensions | LxHxD | mm | 780x210x500 | | | 1000x210x500 |
| Net weight | | Kg | 18 | | | 21.5 |
| Refrigerant connections | Liquid/Gas | Ø mm (inch) | 6.35 (1/4") - 12.7 (1/2") | | | |
| Condensate drain | | Ø mm | 25 | | | |
| **Accessories** | | | | | | |
| Remote control | | | DHIR-5-6-XRV-K-P | | | |
| Wired remote control | | | DHW-5-6-XRV-K-P | | | |
| **Optional parts** | | | | | | |
| Centralized control | | | see page 117 | | | |

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

| Model | | | HUCU 565 XRV-P | HUCU 715 XRV-P | HUCU 905 XRV-P | HUCU 1125 XRV-P | HUCU 1405 XRV-P |
|---|---|---|---|---|---|---|---|
| Control (included) | | type | none | | | | |
| Rated cooling capacity | | kW | 5.60 | 7.10 | 9.00 | 11.20 | 14.00 |
| Rated heating capacity | | kW | 6.30 | 8.00 | 10.00 | 12.50 | 15.50 |
| **Electrical data** | | | | | | | |
| Power supply | | Ph-V-Hz | 1~220~240V-50Hz | | | | |
| Electrical absorption | | W | 92 | 98 | 120 | 200 | 250 |
| **Product specifications** | | | | | | | |
| Air flow (1) | Max~Min | m³/h | 830~560 | 1000~680 | 1260~780 | 1500~1080 | 1960~1360 |
| Fan static pressure | Std/Max | Pa | 10/50 | | 20/100 | | 40/150 |
| Sound pressure level at 1.4 m (1) | Max~Min | dB(A) | 36~28 | 37~28 | 37~28 | 39~33 | 41~33 |
| Sound power level (1) | Max~Min | dB(A) | 54~46 | 55~46 | 55~46 | 57~51 | 59~51 |
| Dimensions | LxHxD | mm | 1000x210x500 | 1220x210x500 | 1230x270x775 | | 1290x300x865 |
| Net weight | | Kg | 21.5 | 27.5 | 37 | | 46.5 |
| Refrigerant connections | Liquid/Gas | Ø mm (inch) | 9.52 (3/8") - 15.9 (5/8") | | | | |
| Condensate drain | | Ø mm | 25 | | | | |
| **Accessories** | | | | | | | |
| Remote control | | | DHIR-5-6-XRV-K-P | | | | |
| Wired remote control | | | DHW-5-6-XRV-K-P | | | | |
| **Optional parts** | | | | | | | |
| Centralized control | | | see page 117 | | | | |

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

# HVDU XRV-P
## Ducted with high static pressure

The control must be purchased as an accessory

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

**423 mm high** (7.10~16.00 kW) | Compact size

Rear air intake

Ease of maintenance

Compatible with systems AIRZONE

| Model | | | HVDU 715 XRV-P | HVDU 905 XRV-P | HVDU 1125 XRV-P | HVDU 1405 XRV-P | HVDU 1605 XRV-P | HVDU 2005 XRV-P | HVDU 2805 XRV-P |
|---|---|---|---|---|---|---|---|---|---|
| Control (included) | | type | none | | | | | | |
| Rated cooling capacity | | kW | 7.10 | 9.00 | 11.20 | 14.00 | 16.00 | 20.00 | 28.00 |
| Rated heating capacity | | kW | 8.00 | 10.00 | 12.50 | 16.00 | 17.00 | 22.50 | 31.50 |
| **Electrical data** | | | | | | | | | |
| Power supply | | Ph-V-Hz | 1-220~240V-50Hz | | | | | | |
| Electrical absorption | | W | 180 | 220 | 380 | 420 | 700 | 990 | 1200 |
| **Product specifications** | | | | | | | | | |
| Air flow (1) | Max~Min | m³/h | 1360~1160 | 1420~1140 | 1870~1350 | 2240~1600 | 2660~1880 | 4330~3730 | |
| Fan static pressure | Std/Max | Pa | 100/200 | | | | | 170/250 | |
| Sound pressure level at 1.4 m (1) | Max~Min | dB(A) | 46~42 | 50~45 | 50~45 | 53~48 | 54~50 | 57~50 | |
| Sound power level (1) | Max~Min | dB(A) | 64~60 | 68~63 | 68~63 | 71~66 | 72~68 | 75~68 | |
| Dimensions | LxHxD | mm | 965x423x690 | | | 1322x423x691 | | 1454x515x931 | |
| Net weight | | Kg | 41 | 51 | 51 | 68 | 68 | 130 | |
| Refrigerant connections | Liquid/Gas | Ø mm (inch) | 9.52 (3/8") - 15.9 (5/8") | | | | | 12.7 (1/2") - 22.2 (7/8") | |
| Condensate drain | | Ø mm | 25 | | | | | 32 | |
| **Accessories** | | | | | | | | | |
| Remote control | | | DHIR-5-6-XRV-K-P | | | | | | |
| Wired remote control | | | DHW-5-6-XRV-K-P | | | | | | |
| **Optional parts** | | | | | | | | | |
| Centralized control | | | see page 117 | | | | | | |

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

# HVDU-F XRV-P
## All-outside air ducted

The control must be purchased as an accessory

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

**423 mm high** | Ultra-compact design

**200 Pa** | Max static pressure of fans

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

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

(1) Cooling test conditions: 100% outdoor air 33° C DB, 28° C WB. (2) Heating test conditions: 100% outdoor air 0° C DB, -2.9° C WB. (3) Values related to Max and Min speed of 7 levels settable by remote control.

# HKEU XRV-P
## Wall

The control must be purchased as an accessory

New design

**203 mm deep** (2.20 kW) | Extremely compact design

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

Standard washable filter

| Model | | | HKEU 225 XRV-P | HKEU 285 XRV-P | HKEU 365 XRV-P | HKEU 455 XRV-P | HKEU 565 XRV-P | HKEU 715 XRV-P | HKEU 905 XRV-P |
|---|---|---|---|---|---|---|---|---|---|
| Control (included) | | type | none | | | | | | |
| Rated cooling capacity | | kW | 2.20 | 2.80 | 3.60 | 4.50 | 5.60 | 7.10 | 9.00 |
| Rated heating capacity | | kW | 2.40 | 3.20 | 4.00 | 5.00 | 6.30 | 8.00 | 10.00 |
| **Electrical data** | | | | | | | | | |
| Power supply | | Ph-V-Hz | 1~220~240V-50Hz | | | | | | |
| Electrical absorption | | W | 28 | | 30 | 40 | 45 | 55 | 82 |
| **Product specifications** | | | | | | | | | |
| Air flow (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 | | | | | | |
| **Accessories** | | | | | | | | | |
| Remote control | | | DHIR-5-6-XRV-K-P | | | | | | |
| Wired remote control | | | DHW-5-6-XRV-K-P | | | | | | |
| **Optional parts** | | | | | | | | | |
| Centralized control | | | see page 117 | | | | | | |

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

# HSFU XRV-P
## Floor/ceiling

The control must be purchased as an accessory

**Auto Swing function** | Optimises the distribution of air flow in the room

Built-in electronic expansion valve

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

| Model | | | HSFU 565 XRV-P | HSFU 715 XRV-P | HSFU 905 XRV-P | HSFU 1125 XRV-P | HSFU 1405 XRV-P |
|---|---|---|---|---|---|---|---|
| Control (included) | | type | none | | | | |
| Rated cooling capacity | | kW | 5.60 | 7.10 | 9.00 | 11.20 | 14.00 |
| Rated heating capacity | | kW | 6.30 | 8.00 | 10.00 | 12.50 | 15.00 |
| **Electrical data** | | | | | | | |
| Power supply | | Ph-V-Hz | 1~220~240V-50Hz | | | | |
| Electrical absorption | | W | 115 | 115 | 130 | 180 | 180 |
| **Product specifications** | | | | | | | |
| Air flow (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 | | | | |
| **Accessories** | | | | | | | |
| Remote control | | | DHIR-5-6-XRV-K-P | | | | |
| Wired remote control | | | DHW-5-6-XRV-K-P | | | | |
| **Optional parts** | | | | | | | |
| Centralized control | | | see page 117 | | | | |

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

# HFIU XRV-P
## Console

The control must be purchased as an accessory


**210 mm deep** | Ultra-compact design

Double air distribution mode: from above and/or below

7 fan speeds

Front and side air intake

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

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

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

# HFCU XRV-P
## Recessed floor

The control must be purchased as an accessory


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

Air intake from bottom

**212 mm** | Maximum compactness for flush-mounted installation

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

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

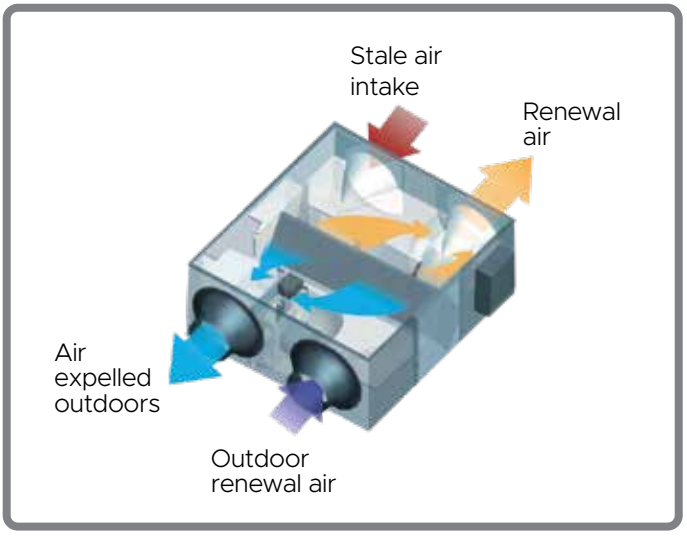
# TOTAL HEAT EXCHANGER

NEW

EHIN 204~404

EHIN 504~2004

The control must be purchased as an accessory




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

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

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

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

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

| Model | | | EHIN 204 | EHIN 304 | EHIN 404 | EHIN 504 | EHIN 804 | EHIN 1004 | EHIN 1504 | EHIN 2004 |
|---|---|---|---|---|---|---|---|---|---|---|
| Control (included) | | type | None | | | | | | | |
| Exchange efficiency[1] | Enthalpy | % | 77.5 | 72.1 | 73.5 | 74.0 | 72.3 | 76.0 | 69.4 | 74.7 |
| | Thermal | % | 81.1 | 75.5 | 77.7 | 80.6 | 78.7 | 82.8 | 75.5 | 77.2 |
| **Electrical data** | | | | | | | | | | |
| Power supply | | Ph-V-Hz | 1~220~240-50 | | | | | | | |
| Power absorption | | W | 70 | 100 | 110 | 150 | 320 | 380 | 680 | 950 |
| Rated absorbed current | | A | 0.64 | 0.84 | 0.97 | 1.2 | 2.4 | 2.9 | 3.8 | 5.7 |
| **Product specifications** | | | | | | | | | | |
| External dimensions | LxHxD | mm | 801x272x1195 | 914x272x1195 | 1204x272x1276 | 1106x390x1311 | 1286x390x1311 | 1526x390x1311 | 1425x615x1740 | 1625x685x1811 |
| Net weight | | Kg | 46.5 | 56.5 | 71.5 | 76 | 80 | 90 | 181.5 | 208.5 |
| Sound power level | Hi | dB(A) | 45 | 48 | 48 | 50 | 55 | 54 | 69 | 70 |
| Treated air | | m3/h | 200 | 300 | 400 | 500 | 800 | 1000 | 1500 | 2000 |
| Fan static pressure | Hi | Pa | 100 | 90 | 100 | 90 | 140 | 160 | 180 | 200 |
| Ducting flange | | mm | ø144 | ø144 | ø198 | ø244 | ø244 | ø244 | 346x326 | 346x326 |
| Condensate drain | | | Not required | | | | | | Necessary | |
| Field of application | | °C | -7~43 DB (max RH 80%) | | | | | | | |
| Degree of protection | | | IPX2 | | | | | | | |
| Specific energy consumption[2] | SEC | kWh/m2 a | -41.50 | - | - | - | - | - | - | - |
| Class SEC[2] | | | A | - | - | - | - | - | - | - |
| **Accessories** | | | | | | | | | | |
| Mandatory wired remote control | | | DHW EH | | | | | | | |

1. Values related to the high speed of the 3 levels settable by wired remote control.
2. Mandatory data for residential ventilation units (RVU) only.

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

# EEV KIT

NEW

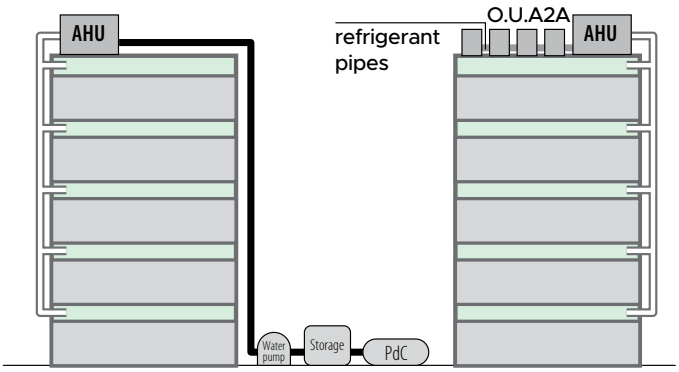
Kit for connecting AHU with direct expansion coil to Hokkaido XRV systems.

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

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

### Traditional VS XRV systems with EET-KIT

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




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

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

### EEV-KIT Application diagrams

Diagram type A: Mixed system indoor unit XRV + AHU

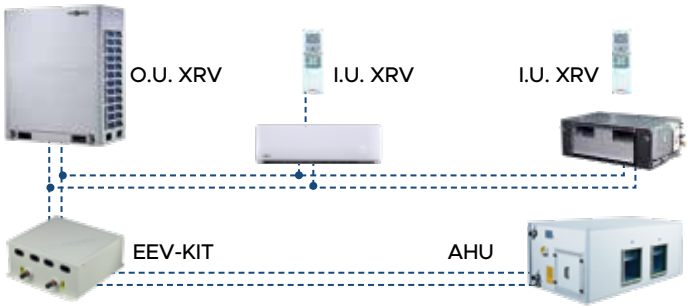
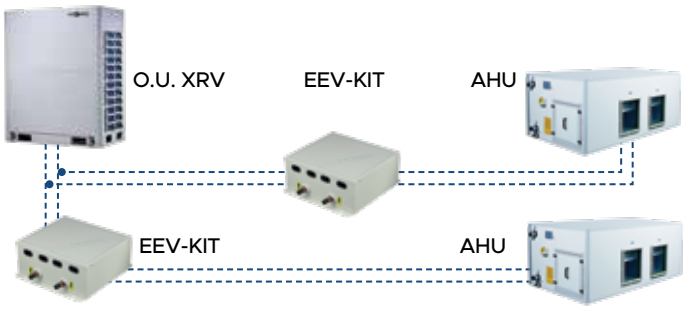



Diagram type B: AHU only




### EEV-KIT Advantages

High energy efficiency thanks to XRV technology which involves:

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

### Installation and operation

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

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

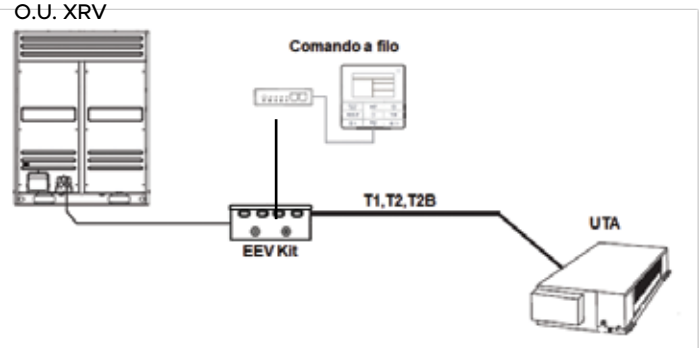
# EEV KIT

NEW

### Technical data

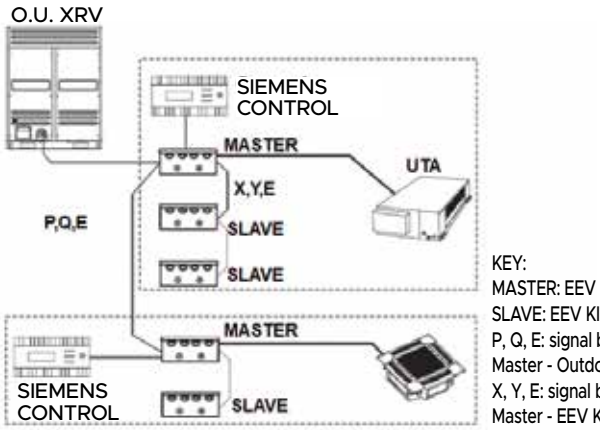
| Model | HAHU 2-9 XRV-R | HAHU 9-20 XRV-R | HAHU 20-36 XRV-R | HAHU 36-56 XRV-R |
|---|---|---|---|---|
| Rated capacity (kW) | 2.20~9.00 | 9.10~20.00 | 20.10~36.00 | 36.10~56.00 |
| Power supply (Ph-V-Hz) | 1-220~240V-50Hz | | | |
| H x L x P (mm) | 375 x 350 x 150 | | | |
| Net weight (kg) | 5.7 | 5.7 | 5.9 | 6 |
| In/out refrigerant connections [Ø mm (inch)] | 6.35 (1/4") | 9.52 (3/8") | 12.7 (1/2") | 15.9 (5/8") |
| Serial control (type) | Wired remote control | | | |
| **Optional parts** | | | | |
| Third-party control | Siemens POL 638.70 | | | |
| Centralized control | See compatibility table | | | |

### Electrical connections diagram




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

### Master-slave connection logic




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

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

### EEV-KIT type selection

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

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

**Example**

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

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

# HEATING

# THE RANGE THAT MEETS ALL NEEDS

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

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

# HEATING



HOKKAIDO

# MONOBLOC R32

## OUTDOOR UNITS

Single phase 5-7-9 kW
HCEWMS 500 Z
HCEWMS 700 Z
HCEWMS 900 Z

Single phase 12-14-16 kW
HCEWMS 1200 - 1400 - 1600 Z
Three-phase 12-14-16 kW
HCVWMS 1202 - 1402 - 1602 Z

Three-phase 18-22-24-30 kW
**HCVWMS 1802 - 2202 Z**
**HCVWMS 2602- 3002 Z**
NEW

## DUAL STAGE COMPRESSOR

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

## CIRCULATOR

Circulation pump included.

## BROAD OPERATING RANGE

COOLING
**-5°/+46°**
(outside temperature)

HEATING
**-25°/+35°**
(outside temperature)

DHW PRODUCTION
**-25°/+43°**
(outside temperature)

## PRODUCT PLUSES

**3 operating modes**
Auto, cooling, heating.

**Disinfect**
Activation of the anti-legionella function.

**Timer**
Daily and weekly.

**Silent mode**
Setting of two sound dampening levels and two timers.

**Holiday mode**
Timer setting during a selected period.

**Recirculation pump**
Pump on and off settable using the timer.

**MODBUS**
Wired remote control connection to MODBUS systems.

**WiFi**
Remote connection via built-in WiFi.

# MONOBLOC R32

## 4 OPERATING MODES

- COOLING
- HEATING
- DOMESTIC HOT WATER
- AUTOMATIC

## 3 COMBINED OPERATING MODES

HEATING + DHW operating mode

- COOLING + DHW
- HEATING + DHW
- AUTOMATIC + DHW

## SYSTEM

### Climatic curve management

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

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

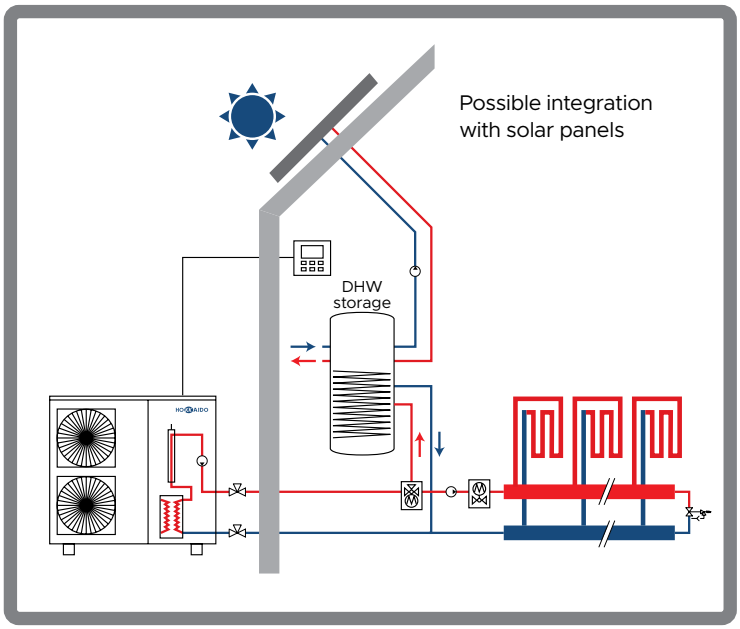
Up to 8 different climate curves can be selected for each mode, depending on the outside ambient temperature.

## INSTALLATION FLEXIBILITY

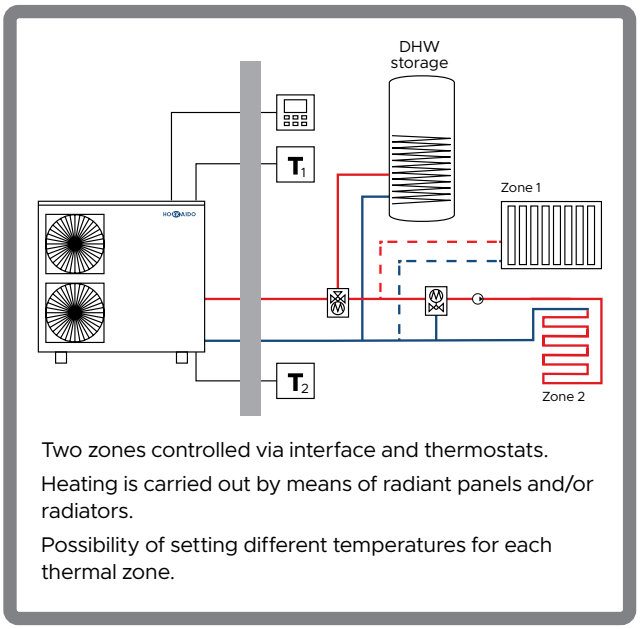
The monobloc in R32 offers extensive installation flexibility.
Depending on the needs of the end user, the system lets you:

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

### Hydraulic connections diagram




### Dual-zone system




Two zones controlled via interface and thermostats.

Heating is carried out by means of radiant panels and/or radiators.

Possibility of setting different temperatures for each thermal zone.

# MONOBLOC R32

Single phase 5-7-9 kW
HCEWMS 500 Z
HCEWMS 700 Z
HCEWMS 900 Z

**ENERGY EFFICIENCY CLASS**
**A+++**
In heating mode with **35° C** delivery water temperature.

**ENERGY EFFICIENCY CLASS**
**A++**
In heating mode with **55° C** delivery water temperature

| Model | | | | HCEWMS 500 Z | HCEWMS 700 Z | HCEWMS 900 Z |
|---|---|---|---|---|---|---|
| Heating | Rated power | A7//W35 | kW | 4.65 | 6.65 | 8.60 |
| | Electrical absorption | | | 0.93 | 1.35 | 1.87 |
| | Performance coefficient | | COP | 5.00 | 4.93 | 4.60 |
| | Rated power | A7/W45 | kW | 4.80 | 6.70 | 8.60 |
| | Electrical absorption | | | 1.33 | 1.88 | 2.50 |
| | Performance coefficient | | COP | 3.61 | 3.56 | 3.44 |
| | Seasonal energy efficiency (ηs) | 35/55 | % | 176/127 | 176/127 | 177/126 |
| | Energy efficiency class | 35/55 | - | A+++/A++ | A+++/A++ | A+++/A++ |
| Cooling | Rated power | A35//W18 | kW | 4.60 | 6.45 | 8.00 |
| | Electrical absorption | | | 0.95 | 1.39 | 1.92 |
| | Energy efficiency | | EER | 4.84 | 4.64 | 4.17 |
| | Rated power | A35//W7 | kW | 4.85 | 6.30 | 7.95 |
| | Electrical absorption | | | 1.63 | 2.27 | 3.15 |
| | Energy efficiency | | EER | 2.98 | 2.78 | 2.52 |
| Operating limits | Outside air temperature | Heating | °C | -25~35 | | |
| | | Cooling | | -5~43 | | |
| | | DHW | | -25~43 | | |
| | Delivery water temperature | Heating | °C | 25~60 | | |
| | | Cooling | °C | 5~25 | | |
| | | DHW | | 40~60 | | |
| Refrigerant | Type (GWP) | | | R32 (675) | | |
| | Quantity (tons CO2) | | kg (t) | 2.0 (1.350) | | |
| | Control system | | | Electronic expansion valve | | |
| Type of compressor | | | | Twin Rotary - DC Inverter | | |
| Internal circulator | Model | | | WILO Yonos PARA RS 15/6 RKC | | |
| Expansion tank | Volume | | L | 2 | | |
| | Pre-load | | bar | 1.5 | | |
| Hydraulic connections | Water inlet/outlet | | Inches | 1"M | 1"M | 1"M |
| Electrical data | Power supply | | Ph-V-Hz | 1ph-220~240V-50Hz | | |
| | Maximum current | | A | 14.1 | | |
| | Power cable | | type | 3x4 mm$^2$ | | |
| Control | Standard | | | Wire remote control | | |
| Sound pressure level at 1 m | | Max | dB(A) | 48.8 | 52.3 | 54.5 |
| Sound power level | | Max | dB(A) | 61 | 64 | 67 |
| Dimensions | | LxDxH | mm | 1210x402x945 | | |
| Net weight | | | kg | 92 | | |

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

# MONOBLOC R32

Single phase 12-14-16 kW
HCEWMS 1200 - 1400 - 1600 Z
Three-phase 12-14-16 kW
HCVWMS 1202 - 1402 - 1602 Z

**ENERGY EFFICIENCY CLASS**
**A++**
In heating mode with **35° C** delivery water temperature.

**ENERGY EFFICIENCY CLASS**
**A++**
In heating mode with **55° C** delivery water temperature.

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

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

# MONOBLOC R32

NEW

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

## ENERGY EFFICIENCY CLASS
## A+++

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

## ENERGY EFFICIENCY CLASS
## A++

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

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

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

# HP SPLIT R32

NEW

## OUTDOOR UNITS

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

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

## INDOOR UNIT

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

## TANK

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

**COP 5.15 (4.20 KW)**

**CLASS ENERGY RATING A+++/A++**

### WIDE RANGE OF AMBIENT TEMPERATURE

COOLING
**-5°/+43°**
(outside temperature)

HEATING
**-25°/+35°**
(outside temperature)

DHW PRODUCTION
**-25°/+43°**
(outside temperature)

### WIDE RANGE OF WATER TEMPERATURE

COOLING
**+7°/+30°**

HEATING
**+25°/+60°**

DHW PRODUCTION
**+40°/+60°**

**Eco mode**
Energy saving function.

**Disinfect**
Activation of the anti-legionella function.

**Timer**
Daily and weekly.

**Silent mode**
Setting of two sound dampening levels and two timers.

**Holiday mode**
Timer setting during a selected period.

**WiFi**
Remote connection via built-in WiFi.

**MODBUS**
Wired remote control connection to MODBUS systems.

# HP SPLIT R32

## 4 OPERATING MODES

- COOLING
- HEATING
- DOMESTIC HOT WATER
- AUTOMATIC

## 3 COMBINED OPERATING MODES

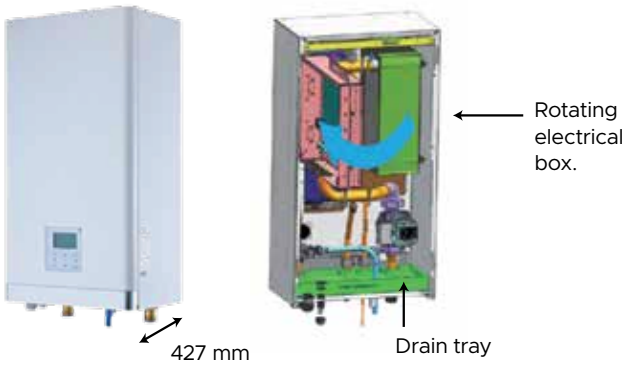
HEATING + DHW operating mode

- COOLING + DHW
- HEATING + DHW
- AUTOMATIC + DHW

## SIMPLE INSTALLATION AND MAINTENANCE

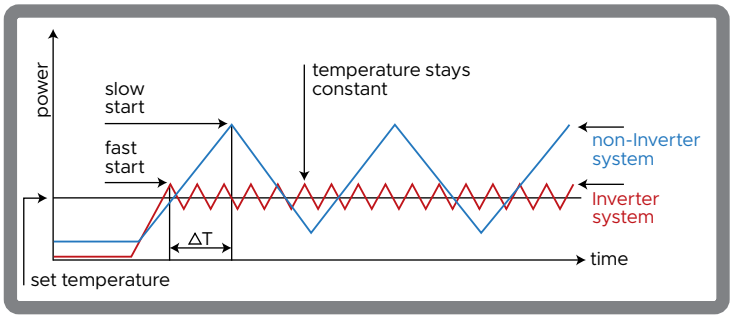
Extremely compact hydronic model (427 mm deep), suitable for replacing existing boilers.

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



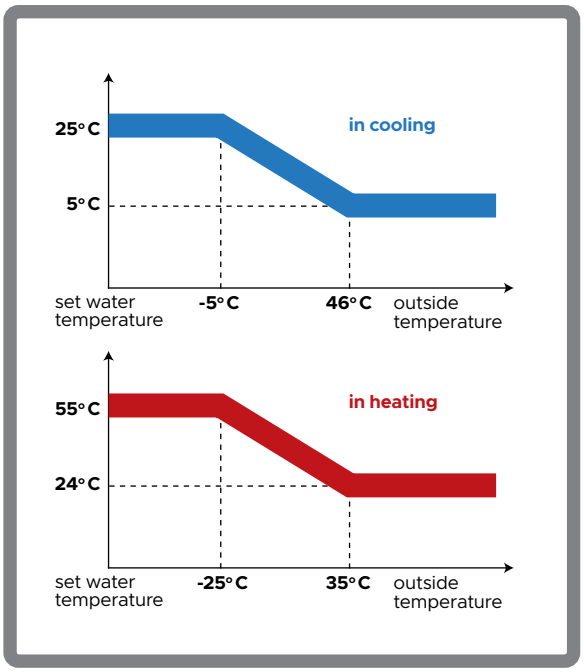

## CONSTANT WATER TEMPERATURE

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



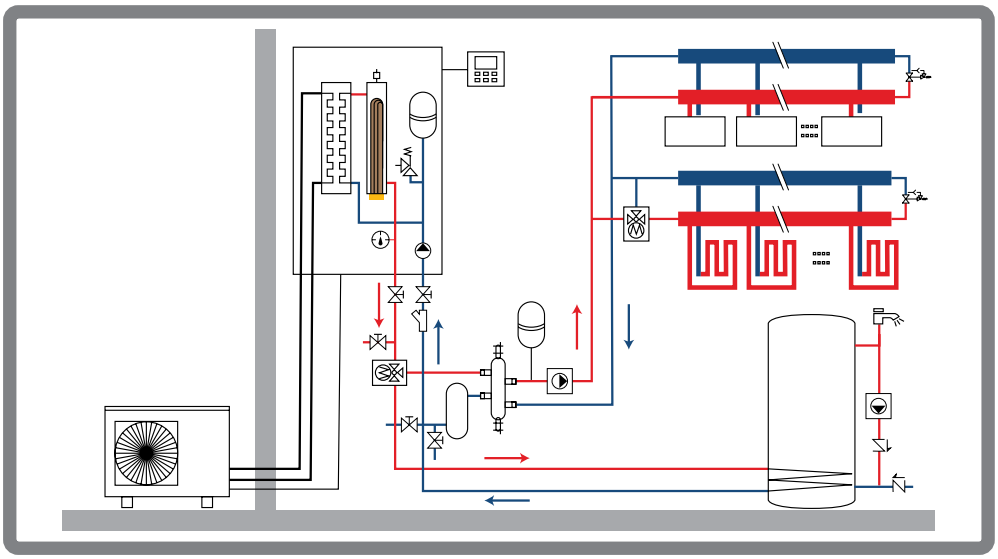

## 32 CLIMATIC CURVES

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



# HP SPLIT R32

## SYSTEM DIAGRAM



| Outdoor unit model | | | | HCEMS 400 Z | HCEMS 600 Z | HCEMS 800 Z | HCEMS 1000 Z |
|---|---|---|---|---|---|---|---|
| Heating | Rated power | A7//W35 | kW | 4.20 | 6.50 | 8.40 | 10.00 |
| | Electrical absorption | | | 0.82 | 1.35 | 1.73 | 2.15 |
| | Performance coefficient | | COP | 5.15 | 4.85 | 4.85 | 4.65 |
| | Rated power | A7/W45 | kW | 4.20 | 6.35 | 8.05 | 9.85 |
| | Electrical absorption | | | 1.15 | 1.74 | 2.16 | 2.72 |
| | Performance coefficient | | COP | 3.65 | 3.64 | 3.73 | 3.65 |
| | Rated power | A7/W55 | kW | 4.10 | 5.75 | 7.50 | 9.30 |
| | Electrical absorption | | | 1.44 | 1.98 | 2.49 | 3.25 |
| | Performance coefficient | | COP | 2.85 | 2.90 | 3.01 | 2.86 |
| | Seasonal energy efficiency (ηs) | 35/55 | % | 187.5/130.6 | 187.5/130.6 | 188.4/128 | 188.4/128 |
| | Energy efficiency class | 35/55 | - | A+++/A++ | A+++/A++ | A+++/A++ | A+++/A++ |
| Cooling | Rated power | A35//W18 | kW | 4.30 | 6.45 | 8.35 | 10.20 |
| | Electrical absorption | | | 0.77 | 1.32 | 1.79 | 2.40 |
| | Energy efficiency | | EER | 5.60 | 4.88 | 4.67 | 4.25 |
| | Rated power | A35//W7 | kW | 4.50 | 6.50 | 7.38 | 8.15 |
| | Electrical absorption | | | 1.36 | 2.20 | 2.44 | 2.76 |
| | Energy efficiency | | EER | 3.32 | 2.95 | 3.02 | 2.95 |
| Operating limits | Outside air temperature | Heating | °C | -25~35 | -25~35 | -25~35 | -25~35 |
| | | Cooling | | -5~43 | -5~43 | -5~43 | -5~43 |
| | | DHW | | -25~43 | -25~43 | -25~43 | -25~43 |
| Electrical data | Power supply | | Ph/V/Hz | 1ph-220~240V-50Hz | 1ph-220~240V-50Hz | 1ph-220~240V-50Hz | 1ph-220~240V-50Hz |
| | Maximum current | | A | 11.30 | 11.30 | 16.70 | 16.70 |
| | Power cable | | type | 3x2.5 mm² | 3x2.5 mm² | 3x4 mm² | 3x4 mm² |
| Refrigerant circuit | Refrigerant (GWP) | | | R32 (675) | R32 (675) | R32 (675) | R32 (675) |
| | Pre-charge quantity (tons CO2) | | kg (t) | 1.55 (1.046) | 1.55 (1.046) | 1.65 (1.114) | 1.65 (1.114) |
| | Diameter of refrigerant piping on liquid/gas | | mm (inches) | ø6.35(1/4") - ø15.88(5/8") | | ø9.52(3/8") - ø15.88(5/8") | |
| | Max./Min. splitting length | | m | 30/2 | 30/2 | 30/2 | 30/2 |
| | Max height difference O.U.-I.U./I.U.-O.U. | | m | 20/15 | 20/15 | 20/15 | 20/15 |
| | Splitting length without additional load | | m | 15 | 15 | 15 | 15 |
| | Additional load | | g/m | 20 | 20 | 38 | 38 |
| Compressor | Type | | | Twin Rotary - DC Inverter | Twin Rotary - DC Inverter | Twin Rotary - DC Inverter | Twin Rotary - DC Inverter |
| Sound pressure level at 1 m (maximum value detected in tests) | | | dB(A) | 46.5 | 49.5 | 49.3 | 52.4 |
| Sound power level (maximum value detected in tests) | | | dB(A) | 61 | 62 | 63 | 65 |
| Fan air flow | | | m³/h | 3300 | 3300 | 5000 | 5000 |
| Dimensions | | LxDxH | mm | 960x380x860 | 960x380x860 | 1075x395x965 | 1075x395x965 |
| Net | | Weight | kg | 57 | 57 | 67 | 67 |
| **Indoor unit model** | | | | **HHNMS 4-6 Z** | | **HHNMS 8-10 Z** | |
| Operating limits | Delivery water temperature | Heating | °C | 25~60 | | 25~60 | |
| | | Cooling | | 7~30 | | 7~30 | |
| | | DHW | | 40~60 | | 40~60 | |
| Electrical data | Power supply | | Ph/V/Hz | 1ph-220~240V-50Hz | | 1ph-220~240V-50Hz | |
| | Electrical integration | | kW | Not present | | Not present | |
| | Maximum current | | A | 0.40 | | 0.40 | |
| | Power cable | | type | 3x1.5 mm² | | 3x1.5 mm² | |
| Expansion tank | Volume | | L | 5 | | 5 | |
| | Pre-load | | bar | 1.5 | | 1.5 | |
| Circulation pump | Flow rate | | L/h | 600~1250 | | 600~2100 | |
| | Max static pressure | | m | 8.5 | | 8.5 | |
| Water/freon exchanger | | | type | Plate heat exchanger | | Plate heat exchanger | |
| Maximum operating pressure | | | bar | 3.0 | | 3.0 | |
| Hydraulic connections | Water inlet/outlet | | Inches | ø1" BSP | | ø1" BSP | |
| Sound power level | | | dB(A) | 43 | | 43 | |
| Dimensions | | LxDxH | mm | 400x427x850 | | 400x427x850 | |
| Net | | Weight | kg | 47 | | 47 | |
| Wire control | Standard (included) | | | DHWZ CEM-Z | DHWZ CEM-Z | DHWZ CEM-Z | DHWZ CEM-Z |

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

# FAN COIL - HYDRONIC TERMINALS

NEW

## THERMAL COMFORT FOR ALL SEASONS, IN A SINGLE DEVICE

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

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

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

## BRUSHLESS MOTOR

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

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

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

DC Inverter motor

## QUIET

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

## STANDARD INFRA-RED REMOTE CONTROL

4-way
84x84 cassette

4-way
60x60 cassette

Wall

**Individual control**

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

## CENTRALIZED CONTROL FOR ALL TYPES OF FAN COILS

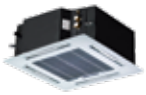
### DHC TRKF-M

**Centralized control**

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

# FAN COIL - HYDRONIC TERMINALS

NEW

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

## OPTIONAL WIRE CONTROLS FOR FLOOR/CEILING AND DUCTED MODELS

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

### DHW FLY-RD-M

**Individual control**

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

### DHWM FLY-RD-M

**Individual control with MODBUS**

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

NEW

# Compact cassette 60x60

## HTFMM 300-500 W

**Standard 8-way 360° panel**
**Compact dimensions**: (261 mm height)
**Condensate drain pump included**
**Pre-cut for outside air inflow**

Remote control included

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

# Cassette 84x84

## HTBMM 750-950-1200-1500 W

**Condensate drain pump included**
**Pre-cut for outside air inflow**

Remote control included

| Model | | | HTBMM 750 W | HTBMM 950 W | HTBMM 1200 W | HTBMM 1500 W |
|---|---|---|---|---|---|---|
| Power supply | | V/Ph/Hz | 220-240/1/50 | | | |
| Air flow (H/M/L)[1] | | m³/h | 1229/1020/810 | 1530/1224/1101 | 1581/1371/1236 | 1871/1415/1198 |
| Cooling[2] | Power (H/M/L) | kW | 6,12/5,45/4,60 | 7,84/6,84/6,35 | 7,87/7,12/6,67 | 11,19/8,82/7,48 |
| | Water flow (H/M/L) | m³/h | 1,10/0,96/0,81 | 1,43/1,24/1,13 | 1,44/1,28/1,22 | 1,96/1,53/1,28 |
| | Water load loss (H/M/L) | kPa | 21,3/21,3/12,4 | 22/17/14,1 | 22,3/18,1/16,3 | 36,6/22,7/16,4 |
| Water heating 45° C[3] | Power (H/M/L) | kW | 6,27/5,88/5,43 | 8,49/8/7,35 | 9,16/8,54/7,90 | 10,07/9,37/8,68 |
| | Water flow (H/M/L) | m³/h | 1,39/1,20/1,00 | 1,71/1,45/1,33 | 1,73/1,57/1,46 | 2,35/1,86/1,59 |
| | Water load loss (H/M/L) | kPa | 30/22,7/16,3 | 28,1/20,7/17,4 | 28,8/24,0/20,7 | 49,2/31,2/23,3 |
| Water heating 55° C[4] | Power (H/M/L) | kW | 8,62/7,49/6,27 | 10,86/9,24/8,49 | 10,92/9,84/9,16 | 14,92/11,73/10,07 |
| | Water flow (H/M/L) | m³/h | 1,10/0,96/0,81 | 1,43/1,24/1,13 | 1,44/1,28/1,22 | 1,96/1,53/1,28 |
| | Water load loss (H/M/L) | kPa | 19,1/14,8/10,6 | 19,9/15,2/12,6 | 20,0/16,2/14,7 | 34,3/21,3/15,0 |
| Electrical absorption (H) | | W | 49 | 76 | 85 | 127 |
| Sound pressure (H/M/L)[6] | | dB(A) | 44/40/34 | 46/42/39 | 48/44/41 | 49/43/39 |
| Fan motor | Type | | DC Brushless | | | |
| | Quantity | | 1 | | | |
| Fan | Type | | Centrifugal with forward curved blades | | | |
| | Quantity | | 1 | 1 | 1 | 1 |
| Coil | Rows | | 2 | 2 | 2 | 3 |
| | Maximum pressure | Pa | 1,6 | | | |
| Panel | Net dimensions (LxHxD) | mm | 950x45x950 | 950x45x950 | 950x45x950 | 950x45x950 |
| | Net weight | kg | 6 | 6 | 6 | 6 |
| | Gross weight | kg | 9 | 9 | 9 | 9 |
| Cassette Body | Net dimensions (LxHxD) | mm | 840x300x840 | 840x300x840 | 840x300x840 | 840x300x840 |
| | Net weight | kg | 23 | 27 | 27 | 29,5 |
| | Gross weight | kg | 28 | 33 | 33 | 34,5 |
| Hydraulic connections | | " | G3/4 | | | |
| Drain | | mm | OD 32 | | | |

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

NEW

# Ducted up to 50 Pa

## HRDMM 500-800-1000-1200 W

**Pre-cut for outside air inflow**

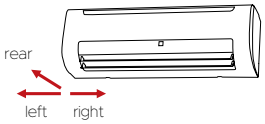
Remote control included

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

# Wall

## HKEMM 250-500-800 W

**Multi-directional piping outlet**




**Positioning of motorized louvers**

**Removable front panel**

Remote control included

| Model | | | HKEMM 250 W | HKEMM 500 W | HKEMM 8000 W |
|---|---|---|---|---|---|
| Power supply | | V/Ph/Hz | 220-240/1/50 | | |
| Air flow (H/M/L)[1] | | m³/h | 492/454/400 | 862/741/634 | 1824/1332/906 |
| Cooling[2] | Power (H/M/L) | kW | 2.7/2.59/2.39 | 4.47/3.98/3.48 | 7.92/6.62/5.15 |
| | Water flow (H/M/L) | m³/h | 0.48/0.46/0.42 | 0.77/0.68/0.61 | 1.43/1.17/0.91 |
| | Water load loss (H/M/L) | kPa | 31.61/28.63/25.36 | 41.17/33.54/27.05 | 23.2/16.44/10.94 |
| Water heating 45° C[3] | Power (H/M/L) | kW | 2.94/2.8/2.58 | 4.84/4.23/3.62 | 9.92/7.94/5.86 |
| | Water flow (H/M/L) | m³/h | 0.51/0.49/0.46 | 0.84/0.73/0.64 | 1.69/1.38/1.01 |
| | Water load loss (H/M/L) | kPa | 32.66/34.89/30.24 | 36.82/33.83/26.26 | 19.72/18.87/11.07 |
| Water heating 55° C[4] | Power (H/M/L) | kW | 3.29/3.03/2.63 | 5.68/4.94/4.24 | 11.63/9.37/6.96 |
| | Water flow (H/M/L) | m³/h | 0.48/0.46/0.42 | 0.77/0.68/0.61 | 1.43/1.17/0.91 |
| | Water load loss (H/M/L) | kPa | 37.49/30.25/26.53 | 43.74/29.69/23.98 | 26.68/13.96/9.1 |
| Electrical absorption (H) | | W | 13 | 26 | 100 |
| Sound pressure (H/M/L)[6] | | dB(A) | 32/30/27 | 23/16/12 | 50.2/43.0/33.0 |
| Fan motor | Type | | DC Brushless | | |
| | Quantity | | 1 | | |
| Fan | Type | | Tangential | | |
| | Quantity | | 1 | 1 | 1 |
| Coil | Rows | | 2 | 2 | 2 |
| | Maximum pressure | Pa | 1.6 | | |
| Product specifications | Net dimensions (LxHxD) | mm | 915x290x230 | 1072x315x230 | 1072x315x230 |
| | Net weight | kg | 12.7 | 15.1 | 14.9 |
| | Gross weight | kg | 17.3 | 19 | 18.6 |
| Hydraulic connections | | " | G3/4 | | |
| Drain | | mm | OD 20 | | |

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

NEW

# Exposed floor/ceiling

HFLMM 501-701-801 W

**Vertical or horizontal installation**
**Compact dimensions**: (200 mm deep)
**Elegant design**

Remote control included

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

# Recessed floor/ceiling

HFYMM 501-701-801 W

**Vertical or horizontal installation**
**Compact dimensions**: (200 mm deep)

Remote control included

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

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

# 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 capacity

Stainless steel tank.

**Anti-legionella cycle**

ErP Ready

HWMAS 3200 HEA-3
HWMAS 5400 HEA-3

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

**R134A** | Refrigerant gas.

**300 or 500 litres** | Stainless steel tank.

**60° C** | Hot water with the compressor only.

**COP 2.67*** | For 300 litre model.

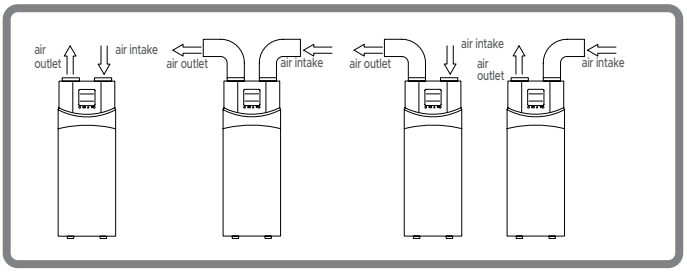
**COP 2.69*** | For 500 litre model.

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

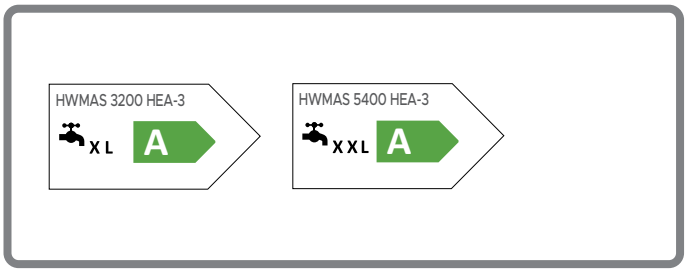
Innovative soft touch control panel to facilitate commissioning, use and maintenance.

* In accordance with EN 16147

## 4 INSTALLATION MODES



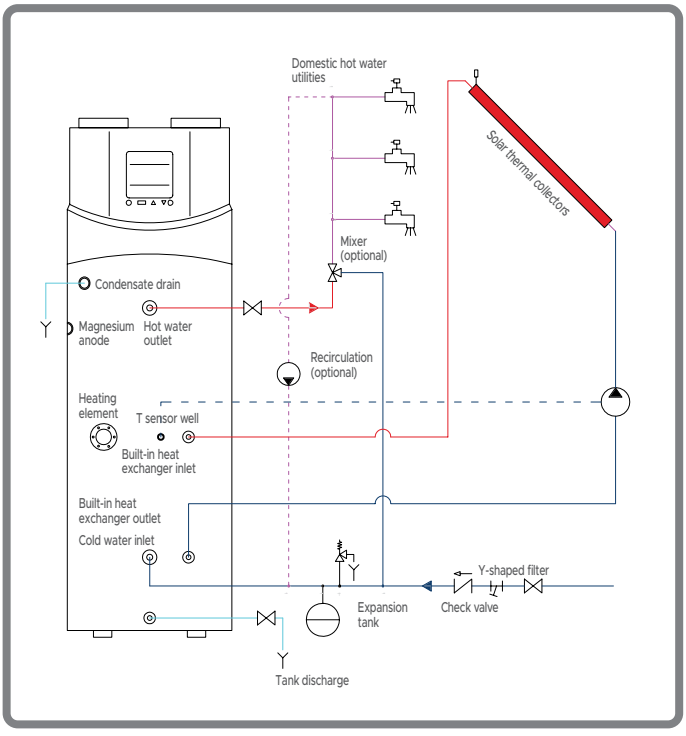

## ENERGY EFFICIENCY CLASS




| Model | | | HWMAS 3200 HEA-3 | HWMAS 5400 HEA-3 |
|---|---|---|---|---|
| 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 | 2.67 | 2.69 |
| Test cycle profile[2] | | - | XL | XXL |
| Volume of hot water at 40°C[2] | | L | 351 | 501 |
| Energy Efficiency Class[3] | | - | A | A |
| IP Degree of protection | | | IPX1 | IPX1 |
| Hot water T. adjustment interval | | °C | 10~70 (50 default) | 10~70 (50 default) |
| Maximum DHW temperature only compressor | | °C | 60 | 60 |
| Electrical data | Power | Ph-V-Hz | 1-220~240-50 | 1-220~240-50 |
| | Integrative heating element | W | 1600 | 1600 |
| | Maximum current (including heating element) | A | 10.0 | 13.0 |
| Refrigerant | Type (GWP) | - | R134a (1430) | R134a (1430) |
| | Quantity | kg | 0.80 | 1.45 |
| | Tons of CO2 equivalent | t | 1.144 | 2.074 |
| Compressor | | - | Rotary (ON/OFF) | Rotary (ON/OFF) |
| Dimensions | Unit Ø x H | mm | 640 x 1845 | 700 x 2230 |
| Net weight | | kg | 104 | 122 |
| Sound power level | | dB(A) | 59 | 60 |
| Sound pressure level at 2 m | | dB(A) | 46 | 45 |
| Tank | Tank material | - | Stainless steel | Stainless steel |
| | DHW hydraulic connections | (" - DN) | 1" - DN25 | 1" - DN25 |
| | Hydraulic solar coil connections | (" - DN) | 3/4" - DN20 | 3/4" - DN20 |
| | Magnesium anode | - | G3/4" - Ø 21x300 | G3/4" - Ø 21x300 |
| | Maximum operating pressure | bar | 10 | 10 |
| Suctioned air | Operating range | °C | -5~+43 | -5~+43 |
| | Rated flow (not ducted) | 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 |

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

## HYDRAULIC CONNECTIONS DIAGRAM



CONTROLS

# CONTROLS



HOKKAIDO

# INDIVIDUAL R32 SERIES CONTROLS

## R32
### INAZAMI

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

## R32
### V-DESIGN PLUS

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

## R32
### ACTIVE

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

## R32
### console
### compact cassette 60x60
### slim cassette 84x84
### medium static pressure duct
### floor/ceiling

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

# OPTIONAL INDIVIDUAL R32 CONTROLS

## DTWS 4 IHXR Compact

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

# OPTIONAL R32 AND P SERIES CENTRALIZED CONTROLS

## DTCWT IHXR

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

## DTC IHXR Touch

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

# INDIVIDUAL P SERIES CONTROLS

## DHIR-5-6-XRV-K-P

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

## DHW-5-6-XRV-P

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

# P SERIES GROUP CONTROLS

## DHWT-16-XRV-P

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

# OPTIONAL P SERIES CENTRALIZED CONTROLS

## DHC-8-64-XRV-P

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

## DHC-48-364-XRV-P
**Coming soon**

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

# OPTIONAL ACCESSORIES

## DTA-IHXR

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

## DTA100-XRV-K-P-I

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

# INTERFACES FOR BMS PROTOCOLS

## DTMOD IHXR
Modbus

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

## DHLON-XRV
Lonworks

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

## DBAC IHXR
Bacnet Gateway

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

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

## DTW Auto4 XRV

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

## DTIR Auto4 XRV

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

# CENTRALIZED CONTROL **XRV MOBILE BMS**

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

**Wi-Fi**

Available for iOS devices from the Apple App Store.

### All the functions of the Hokkaido 2.0 app:

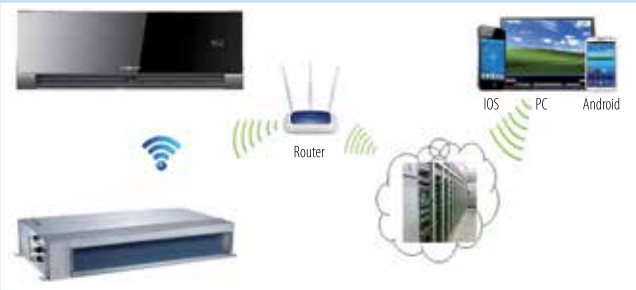
- Switching on/off - identification of indoor units.
- Operating mode.
- Maximum and minimum temperature limits.
- Fan speed - motorized louver movement.
- Remote control enabling/disabling.
- Up to 59 weekly programs (with easy setting and activation/deactivation button, audible and visual alarm signalling,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

### To control your system freely and at any time of day

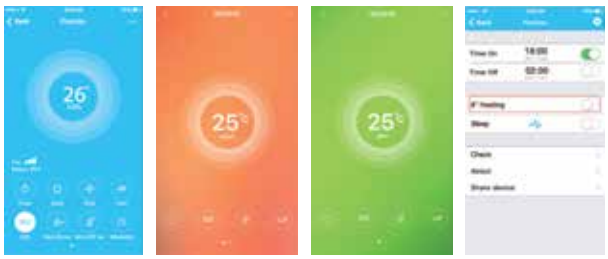
The new centralized XRV mobile BMS control has been designed to ensure the utmost ease of use of Hokkaido systems. XRV mobile BMS is equipped with a Wi-Fi module for configuration and local management via iPad or Windows PC. Once configured correctly, you can control your system even remotely, in a local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

# HOKKAIDO WIFI

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




**Some examples of screens from iOs devices**



### All your main air conditioning settings right from your smartphone.

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

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

- **HKM-WIFI**: for residential wall-mounted indoor units.
- **HKM-WIFI LCAC**: for commercial indoor units (cassette, ducted, floor/ceiling).

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

### Home air conditioning control, even away from home.

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

**Main HOKKAIDO WiFi module functions**

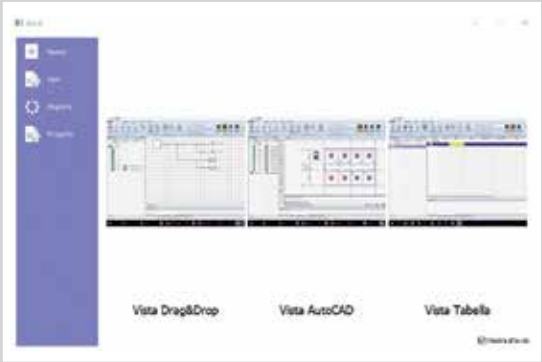
- Access security with account protected by credentials (UserID & PWD).
- Unique identification of each individual unit that you want to check.
- On and off control.
- Operating mode selection.
- Set temperature adjustment.
- Fan speed.
- Daily and weekly timer.
- 8° C heating activation (function that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

# NEW PROGRAM FOR XRV SYSTEMS SIZING

NEW

**Innovative graphic interface**

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



# OPTIONAL CONTROL COMPATIBILITY

| | INDOOR UNITS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | RAC wall | | | PAC Hybrid | | | | | XRV Systems | |
| | Active | V-Design Plus | Inazami | HFIU | HSFI/HSFU | HUCI/HUCU | HTFU | HTBI | XRV-K | XRV-P |
| **Wire control** | | | | | | | | | | |
| DTWS4 IHXR Compact | | | | * | * | * | * | * | * | |
| DHW-5-6-XRV-P | | | | | | | | | | * |
| DHWT-16-XRV-P | | | | | | | | | | * |
| **Centralized control** | | | | | | | | | | |
| DTC IHXR Touch | | | | * * | * | * | * | * | * | * |
| DTCWT IHXR | | | | * * | * | * | * | * | * | * |
| XRV Mobile BMS | | | | * * | * | * | * | * | * | * |
| DHC-8-64-XRV-P | | | | | | | | | | * |
| DHC-48-384-XRV-P | | | | | | | | | | * |
| **WiFi Module** | | | | | | | | | | |
| HKM-WiFi | * | * | * | | | | | | | |
| HKM-WiFi LCAC | | | | | * | * | * | * | | |

* Provide a NIM-GRH interface on each indoor unit

# APPENDIX

**Detail of the control functions**

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

# ICON KEY

REFRIGERANT GAS R32

COMPACT DESIGN

3D COAXIAL FAN

Reducing the resistance to fan rotation allows greater heat exchange.

OUTSIDE AIR

Pre-cut for external air intake fitting.

LOW ACOUSTIC IMPACT

EASY INSTALLATION

INTELLIGENT INTERNAL FAN CONTROL

Automatic fan adjustment during thermostat start or stop.

OPERATING RANGE

Minimum or maximum operating values.

LIGHT EFFECTS

AUTOMATIC BRIGHTNESS ADJUSTMENT

FOLLOW ME FUNCTION

Activates the temperature sensor in the remote control.

AUTORESTART FUNCTION

Resets pre-defined settings after a blackout.

BIO-FILTER

AIR GUARDIAN FILTER

ION GENERATOR

24H TIMER

TIMER WITH DELAYED PROGRAMMING

COMPUTERISED DEFROST

DEHUMIDIFICATION

TURBO FUNCTION

SELF-DIAGNOSIS FUNCTION

SLEEP FUNCTION

WIFI READY

3D AIR FLOW

BREEZY AWAY

Prevents cold currents.

GEAR FUNCTION

REMOTE CONTROL

WIRED REMOTE CONTROL


KK


KK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HOKKAIDO

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

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