KAYSUN

HEAT PUMPS
Domestic and tertiary solutions

Kaysun by frigicoll

frigicoll Who we are

Frigicoll is a family-owned Spanish company that has been in operation for more than 60 years and is a pioneer in the introduction of technological solutions of leading global brands in various sectors of industry.

At Frigicoll we undertake comprehensive projects, supplying machinery to the air conditioning, energy, transportation, food and catering and refrigeration sectors, as well as to the household appliances sector.

+60 years
of history

+450
employees

+15
facilities
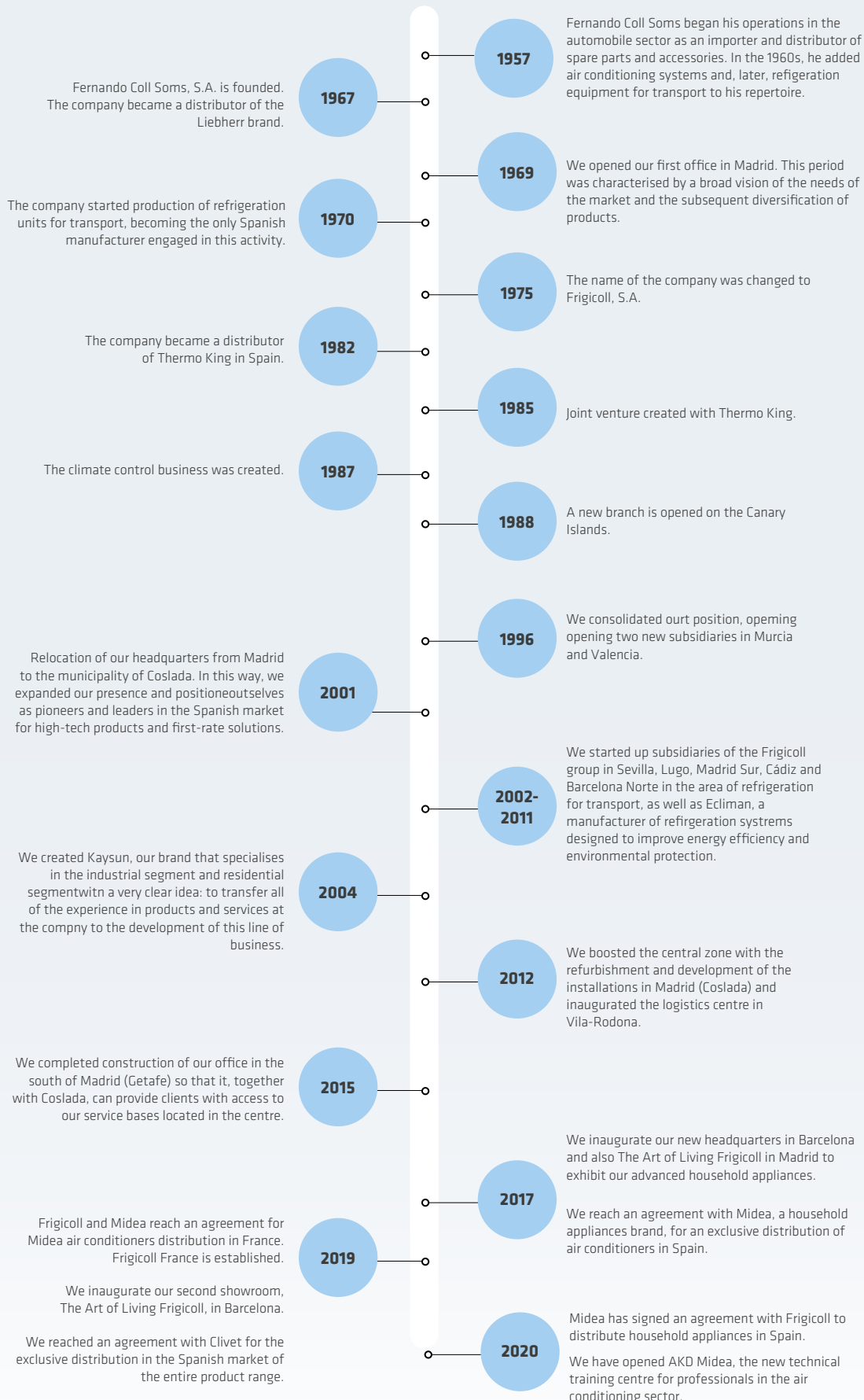spread out
across Spain

+200
million
in turnover

OUR VALUES

Our whole history has been notable for our contribution to the market: the best quality of product, trust, proximity and excellence in customer service and an ongoing quest for improvement and innovation, attributes that have made us leaders in the market. With a long record of providing premkum integrated solutions, we face the future with the desire to keep searching for new, sustainable technological solutions.

CSR

Corporate social responsibility is one of the fundamental pillars of Frigicoll, carrying out actions based on the growth and social commitment of its employees and actions that help create a better, fairer and more sustainable world.

This is our story

1957 — Fernando Coll Soms began his operations in the automobile sector as an importer and distributor of spare parts and accessories. In the 1960s, he added air conditioning systems and, later, refigeration equipment for transport to his repertoire.

1967 — Fernando Coll Soms, S.A. is founded. The company became a distributor of the Liebherr brand.

1969 — We opened our first office in Madrid. This period was characterised by a broad vision of the needs of the market and the subsequent diversification of products.

1970 — The company started production of refrigeration units for transport, becoming the only Spanish manufacturer engaged in this activity.

1975 — The name of the company was changed to Frigicoll, S.A.

1982 — The company became a distributor of Thermo King in Spain.

1985 — Joint venture created with Thermo King.

1987 — The climate control business was created.

1988 — A new branch is opened on the Canary Islands.

1996 — We consolidated ourt position, opening opening two new subsidiaries in Murcia and Valencia.

2001 — Relocation of our headquarters from Madrid to the municipality of Coslada. In this way, we expanded our presence and positioneoutselves as pioneers and leaders in the Spanish market for high-tech products and first-rate solutions.

2002-2011 — We started up subsidiaries of the Frigicoll group in Sevilla, Lugo, Madrid Sur, Cádiz and Barcelona Norte in the area of refrigeration for transport, as well as Ecliman, a manufacturer of refirgeration systrems designed to improve energy efficiency and environmental protection.

2004 — We created Kaysun, our brand that specialises in the industrial segment and residential segmentwitn a very clear idea: to transfer all of the experience in products and services at the compny to the development of this line of business.

2012 — We boosted the central zone with the refurbishment and development of the installations in Madrid (Coslada) and inaugurated the logistics centre in Vila-Rodona.

2015 — We completed construction of our office in the south of Madrid (Getafe) so that it, together with Coslada, can provide clients with access to our service bases located in the centre.

2017 — We inaugurate our new headquarters in Barcelona and also The Art of Living Frigicoll in Madrid to exhibit our advanced household appliances.

We reach an agreement with Midea, a household appliances brand, for an exclusive distribution of air conditioners in Spain.

2019 — Frigicoll and Midea reach an agreement for Midea air conditioners distribution in France. Frigicoll France is established.

We inaugurate our second showroom, The Art of Living Frigicoll, in Barcelona.

We reached an agreement with Clivet for the exclusive distribution in the Spanish market of the entire product range.

2020 — Midea has signed an agreement with Frigicoll to distribute household appliances in Spain.

We have opened AKD Midea, the new technical training centre for professionals in the air conditioning sector.

Kaysun by frigicoll

"A well-established Team"

Over more than 60 years, Frigicoll has worked at all times in collaboration with the most reputable brands in the different business units that comprise the company. Our technical team has combined, for each and every project, the premium qualities of our equipment with its professional experience to achieve the best outcomes. Today we complete key installations, noteworthy due to both the technological prowess of their solutions and their social importance.

In the HVAC Business Unit, we are proud to apply our first-hand knowledge, acquired from our long history and the best professionals, to the continual development of our own brand, Kaysun, which grows more established every day with a strong national and international plan. We have a clear goal: to continue providing the best residential and industrial solutions with comprehensive offerings underpinned by a constantly evolving and diverse range of products. That is why we remain loyal to our brand's philosophy – a balance between technology, efficiency, cost and warranty.

We believe that the best way to explain to you why Kaysun is rising to the top in the sector is to invite you to experience our work first hand.
Thank you for joining us.
Your trust is our guide.

Europe

Andorra	Lithuania
Austria	Luxembourg
Belgium	Malta
Chezch Republic	Poland
England	Portugal
Estonia	Romania
France	Slovakia
Germany	Slovenia
Ireland	Spain
Italy	The Netherlands
Latvia	

The Americas

French Guiana
Guadaloupe
Martinique
Saint Martin

Africa

Algeria	Ivory Coast
Benin	Mali
Burkina Faso	Mauritania
Cameroon	Morocco
Congo	Nigeria
Gabon	Reunion
Ghana	Senegal
Guinea	Togo

Oceania

New Caledonia
New Zeland

"Ten reasons why we stand out"

1. THE FRIGICOLL GUARANTEE

Frigicoll is known for its premium products and its broad experience in excellent after-sales services. KAYSUN, the company's own brand, was developed with the standards for quality and technological innovation that have always set us apart.

2. MAXIMUM RELIABILITY OF OUR EQUIPMENT

We guarantee that our units will have a long service life, thanks to top-quality materials. This ensure that **the need to make use** of their warranties is reduced to a minimum.

3. ISO 9001 / ISO 14001

The quality of our products and environment benefits are two key pillars for KAYSUN. We are proud to have achieved **ISO 9001** and **ISO 14001**, under the seal of Frigicoll.

4. WIDE RANGE

We offer **comprehensive solutions for any facility** thanks to the diversity of our product ranges. From residential split systems to the most complex water terminal units, and including air curtains, recovery systems, VRFs, chillers, solar and domestic hot water units.

5. COMPREHENSIVE PROJECTS

Our team of expert technicians carries out HVCA and ventilation comprehensive specific projects for every single customer, which allows our company to be able to adapt to any space and need. A personalised advice complements this service, thus ensuring the correct performance of our installation works.

6. CUTTING-EDGE TECHNOLOGY

Our forward-looking approach goes hand-in-hand with the incorporation of the latest technology in all of our equipment. We include features that improve everything from energy consumption to practicality and comfort, as in the case of the built-in **motorised panel** used in the cassettes.

7. SMART CONTROL

Our smart control **devices**, allow us to offer comfort and well-being in any facility. The K01-WIFI device is the first smart solution for our units, providing the option of programming and managing air conditioning units inside and outside your home.

8. COMMITTED TO THE ENVIRONMENT

Our equipment is manufactured almost entirely **from recyclable materials**. We have reduced consumption as far as possible in STANDBY mode and have improved the energy efficiency of units working at full capacity, resulting in energy savings for facilities.

9. EXCELLENT AFTER-SALES SERVICE

We **work to solve all incidents as quickly as possible**, leaving our customers completely satisfied with our after-sales service. We have a team of expert professionals working for you.

10. THE BEST MANAGEMENT OF SPARE PARTS IN THE SECTOR

We understand the key role of air-conditioning systems play in our facilities, **and we offer unbeatable replacement services**. Our commitment is absolute and we offer immediate solutions.

AQUATIX
Heat Pumps Range

The most efficient innovation for your home

WHAT IS AEROTHERMAL TECHNOLOGY?

Kaysun Aquantia is an integrated system that provides heating, air conditioning and domestic hot water in your home. Enjoy optimal comfort throughout the year thanks to the high energy efficiency this system is famous for, based on its heat pump. The reversible heat pump is a system that allows renewable energy to be obtained from the exterior and then used to heat or cool your home. It's the most efficient technology available given that it absorbs more external energy than the Aquantia consumes. In addition to being more environmentally friendly and energy-efficient than other systems, like boilers, Aquantia can replace them as well as work alongside them.

NEW
Kaysun Aquantia

COOLING + HEATING + DOMESTIC HOT WATER

3-in-1 solution

- ⊕ High efficiency thermal comfort
- ⊕ 5 different solutions
- ⊕ Easy installation and maintenance
- ⊕ Remote control with Comfort Home app
- ⊕ Customized technical consultancy

DO YOU KNOW HOW AN AEROTHERMAL SYSTEM WORKS?

Your refrigerator is the key to discovering it intuitively.

The refrigerant circuit transports heat inside the refrigerator to its exterior at the rear.

The refrigerant absorbs heat from the external air (in summer it absorbs cold air).

This process uses a small amount of electricity to circulate the refrigerant.

And it emits heat inside the home (in summer it emits cold air).

Fancoil

HE Radiators or LT Radiators

Water tank

Hot water

Underfloor heating

Aquantia

As well as offering climatic comfort in every season, Kaysun Aquantia ensures sustainable, economic domestic hot water in your home. You'll find all the comfort you need in a single piece of equipment.

Wide range of operating temperatures

	Space Heating	Domestic Hot Water	Space Cooling
	35℃	43℃	46℃
	-25℃	-25℃	-5℃

Outdoor ambient temperature

	Space Heating	Domestic Hot Water	Space Cooling
	65℃	65℃	25℃
	25℃	40℃	5℃

Water outlet temperature
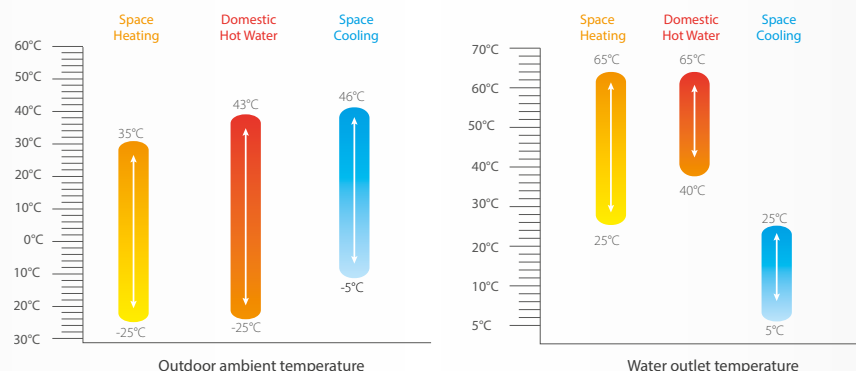
AQUATIX
Product range

KHPIS-BI PRO
Integrated Bibloc Set - Kaysun's PRO Series

- Ideal solution for integration in kitchens and bathrooms
- Integrated DHW 190- or 240-litre tank in stainless steel with anode protection
- Integration with a PV system for extra savings

WiFi	Domestic Hot Water	DC Inverter compressor	Cooling & heating	Configuration via USB port	Smart Grid Ready

| Capacity kW | 4 | 6 | 8 | 10 | 12 | 14 | 16 | Single-Phase |
| Capacity kW | | | | | | 14 | 16 | Three-Phase |

KHPMS-BI PRO
Wall-mounted Bibloc Set - Kaysun's PRO Series

- Ideal solution for replacing boilers and gas heaters
- The most compact design in its category
- Integration with a PV system for extra savings

WiFi	Domestic Hot Water	DC Inverter compressor	Cooling & heating	Configuration via USB port	Smart Grid Ready

| Capacity kW | 4 | 6 | 8 | 10 | 12 | 14 | 16 | Single-Phase |
| Capacity kW | | | | | | 14 | 16 | Three-Phase |

KHPS-MO PRO
Monobloc Set - Kaysun's PRO Series

- Ideal solution for professionals without refrigerating engineer licence (100% hydraulic)
- Cascade configuration with no special controls
- Integration with a PV system for extra savings

WiFi	Domestic Hot Water	DC Inverter compressor	Cooling & heating	Configuration via USB port	Smart Grid Ready

| Capacity kW | 4 | 6 | 8 | 10 | 12 | 14 | 16 | | | Single-Phase |
| Capacity kW | | | | | 12 | 14 | 16 | 22 | 26 | 30 | Three-Phase |

MORE SOLUTIONS WITH BDC KAYSUN

Product range

DOMESTIC HOT WATER TANK

The Aquatix range has tanks for domestic hot water or for heating through underfloor heating. These accumulators are part of the sets KHPS-MO PRO, KHPMS-BI PRO and KHHP-BI.

Domestic
Hot Water

Capacity L   (270)   (475)

KHHP-BI

Hybrid solution with Kaysun's Suite Multi

KHHP-BI is the perfect solution for those who seek a balance between an accessible, sustainable and efficient facility that also provides immediate comfort. Its hydraulic wall kit and pipe set make this the range's most versatile solution.

WiFi   Domestic   DC Inverter   Cooling &   Golden
       Hot Water   compressor   heating   Fin

Capacity kW   (8)

COMPAK

DHW Heat Pumps

Compact unit, fitted with evaporator, condenser and built-in tank. It generates and accumulates DHW extremely efficiently. It is also available solar coil version.

Domestic   Thermal solar
Hot Water   support

Capacity L   (180)   (280)

AQUANTIA PRO
MAIN FEATURES

Kaysun would like to present its aerothermal systems that provide air conditioning, heating and domestic hot water in your home through the use of a heat pump. These systems, which offer maximum energy efficiency, reduce domestic energy consumption and provide the user with economic savings. Only Kaysun is able to combine all of the latest technology and innovations to create Kaysun Aquantia, the system that offers optimal comfort and energy performance in your home throughout the year.

→ Smart, Adaptable System

The system automatically adjusts according to the external temperature and the demand for energy in your facility or home, offering the best result possible.

→ Water up to 65ºC

Being able to deliver water at 65°C with an external temperature of down to 5°C, and at 60°C down to -15°C, ensures thermal comfort in every circumstance and an accumulation of DHW at 60°C.

DOMESTIC HOT WATER

43°C

-25°C

Room temperature

Water temperature up to **60ºC** with room temperature of **-15ºC**

60°C

10°C

Heating temperature
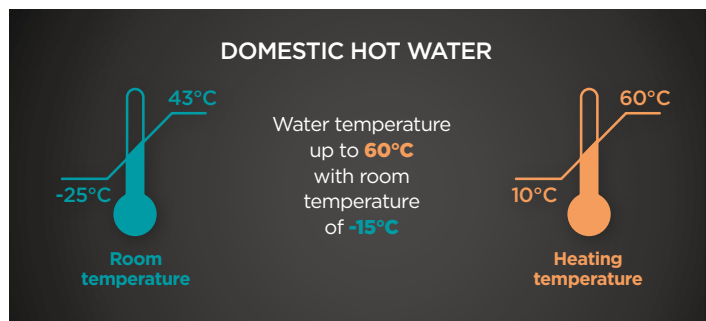
R-32

The new R-32 gas reduces the necessary load by 30%, it has no impact on the ozone layer, and it reduces the impact on global warming by approximately 70% in comparison with its predecessor R-410A.

Compact design

The indoor KHPMS-BI PRO and KHPIS-BI PRO units have been developed in consideration of their need to integrate with all kinds of domestic environments and to replace existing equipment.

→ Easy installation, start-up and maintenance

The new USB port allows the unit to be configured in a matter of seconds, while diagnosis tasks can also be carried out to minimise the time required for start-up or maintenance.

→ Low noise level

The unit's special design means it's extremely quiet: so quiet that it may be confused with the sound of the wind between the trees and birdsong.
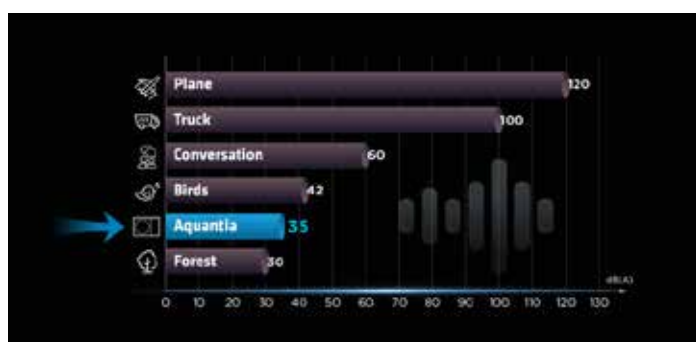
→ Standards and prescription tools

The PRO range's solutions are compliant with all European, national and regional legal frameworks to be considered a form of renewable energy and apply to grant schemes (pe: UK's MCS). In addition, they are present in the CYPE database to facilitate calculation and specification phases.

→ Smart Home and BMS

Aquantia's control allows for a comfortable, intuitive user experience that can fulfil any kind of zoning need. The option of controlling and monitoring your installation using the Comfort Home application ensures the user experience is even more pleasant and, above all, efficient. It can also be integrated directly through the ModBus RTU port and also integrated to others protocols, such as KNX, etc.

ErP Directive

All sets in the PRO range are equipped with Smart Grid protocol as standard, to offer the best balance between comfort and savings on bills.

CEN heat pump KEYMARK
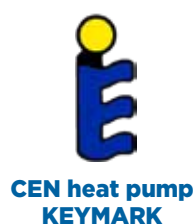
HP Keymark certification

The PRO range's solutions have gained the pan-European HP Keymark certification. All technical specifications are certified in line with extremely strict standards.

KHPIS-BI PRO
Integrated Bibloc Set - Kaysun's PRO Series

HP KEYMARK
www.heatpumpkeymark.com

The KHPIS-BI PRO system is the built-in, multi-tasking solution in the Aquantia PRO range that provides thermal comfort in domestic environments where a lack of space may be an issue and the facility must be built into the home's design. Thanks to its ability to pump water at up to 65°C with an external temperature of 5°C, it can provide heating through highly efficient radiators, fan coil units and underfloor heating, and it can accumulate DHW at 60°C (70°C with solar support or resistor; built-in 190- or 240-litre tank). In summer it can cool the home down using the same heating terminals*.

The new USB port allows it to replicate the configuration of a unit in a matter of seconds, with a view to minimising the time required for start-up or maintenance. The unit's special design means it is extremely quiet: so quiet that it may be confused with the sounds typical of a natural environment. The use of premium components (Wilo, Alfa-Laval, GMCC, among others) has allowed the KHPIS-BI PRO to attain the highest ErP classifications and be considered a renewable energy source. Its features allow it to save energy, care for the planet and save money on bills. Lastly, the built-in control in the internal unit allows for a pleasant, intuitive user experience that can fulfil any zoning need. The option of controlling and monitoring your facility using the Comfort Home application ensures the user experience is even more pleasant and, above all, efficient.

Fully embeddable
Measuring 600x600, the internal unit of the KHPIS-BI PRO system can be built into furnishings in bathrooms, kitchens and, of course, storage rooms.
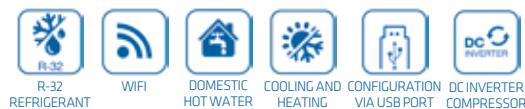

Efficiency and durability
The built-in internal unit of the KHPIS-BI PRO system has a built-in, stainless steel DHW tank and perfectly insulated thanks to a 4.5 cm polymeric layer.

* Radiators are only for heating.

Scan the QR code using your mobile phone's camera or click on it.

Product Sheet
KHPIS-BI PRO

R-32 REFRIGERANT | WIFI | DOMESTIC HOT WATER | COOLING AND HEATING | CONFIGURATION VIA USB PORT | DC INVERTER COMPRESSOR

KHPIS-BI PRO System			KHPIS-BI 4 PRO L KHPIS-BI 4 PRO XL	KHPIS-BI 6 PRO L KHPIS-BI 6 PRO XL	KHPIS-BI 8 PRO L KHPIS-BI 8 PRO XL	KHPIS-BI 10 PRO L KHPIS-BI 10 PRO XL	KHPIS-BI 12 PRO XL
Power Supply			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Outdoor Unit			KHP-BI 4 DVR2	KHP-BI 6 DVR2	KHP-BI 8 DVR2	KHP-BI 10 DVR2	KHP-BI 12 DVR2
Indoor Unit			KHPI-BI-10VR2L KHPI-BI-10VR2XL	KHPI-BI-10VR2L KHPI-BI-10VR2XL	KHPI-BI-10VR2L KHPI-BI-10VR2XL	KHPI-BI-10VR2L KHPI-BI-10VR2XL	KHPI-BI-16VR2XL
DHW Tank			INTEGRATED	INTEGRATED	INTEGRATED	INTEGRATED	INTEGRATED
Control			INTEGRATED	INTEGRATED	INTEGRATED	INTEGRATED	INTEGRATED
Outdoor unit size (WxLxD)		mm	1008/712/426	1008/712/426	1118/865/523	1118/865/523	1118/865/523
Indoor unit size		mm	600/600/1683 (L) 600/600/1943 (XL)	600/600/1683 (L) 600/600/1943 (XL)	600/600/1683 (L) 600/600/1943 (XL)	600/600/1683 (L) 600/600/1943 (XL)	600/600/1943 (XL)
Indoor unit	DHW tank capacity	l	190/240	190/240	190/240	190/240	240
	DHW tank protection	l	Magnesium anode				
	SCOPdhw (UN 16147:2017)		4.43	4.43	4.35	4.35	3.95
	Net weight	kg	138.6 155.3	138.6 155.3	138.6 155.3	138.6 155.3	155.3
Water outlet temperature	heating	°C	25~65	25~65	25~65	25~65	25~65
	cooling	°C	5~25	5~25	5~25	5~25	5~25
	DHW	°C	30~60	30~60	30~60	30~60	30~60
Operating range	heating	°C	-25~35	-25~35	-25~35	-25~35	-25~35
	cooling	°C	-5~43	-5~43	-5~43	-5~43	-5~43
	DHW	°C	-25~43	-25~43	-25~43	-25~43	-25~43

KHPIS-BI PRO System			KHPIS-BI 14 PRO XL	KHPIS-BI 16 PRO XL	KHPIS-BI 14T PRO XL	KHPIS-BI 16T PRO XL
Power Supply			220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50
Outdoor Unit			KHP-BI 14 DVR2	KHP-BI 16 DVR2	KHP-BI 14 DTR2	KHP-BI 16 DTR2
Indoor Unit			KHPI-BI-16VR2XL	KHPI-BI-16VR2XL	KHPI-BI-16VR2XL	KHPI-BI-16VR2XL
DHW Tank			INTEGRATED	INTEGRATED	INTEGRATED	INTEGRATED
Control			INTEGRATED	INTEGRATED	INTEGRATED	INTEGRATED
Outdoor unit size (WxLxD)		mm	1118/865/523	1118/865/523	1118/865/523	1118/865/523
Indoor unit size		mm	600/600/1943 (XL)	600/600/1943 (XL)	600/600/1943 (XL)	600/600/1943 (XL)
Indoor unit	DHW tank capacity	l	240	240	240	240
	DHW tank protection	l	Magnesium anode			
	SCOPdhw (UN 16147:2017)		3.95	3.95	3.93	3.93
	Net weight	kg	155.3	155.3	155.3	155.3
Water outlet temperature	heating	°C	25~65	25~65	25~65	25~65
	cooling	°C	5~25	5~25	5~25	5~25
	DHW	°C	30~60	30~60	30~60	30~60
Operating range	heating	°C	-25~35	-25~35	-25~35	-25~35
	cooling	°C	-5~43	-5~43	-5~43	-5~43
	DHW	°C	-25~43	-25~43	-25~43	-25~43

KHPMS-BI PRO
Wall-mounted Bibloc Set - Kaysun's PRO Series

HP KEYMARK
www.heatpumpkeymark.com

The KHPMS-BI PRO system is the modular, multi-tasking solution in the Aquantia PRO range that provides thermal comfort in medium and large spaces. Thanks to its ability to pump water at up to 65°C with an external temperature of 5°C, it can provide heating through highly efficient radiators, fan coil units and underfloor heating, and it can accumulate DHW at 60°C (70°C with solar support or resistor). In summer it can cool the home down using the same heating terminals*. The new USB port allows the unit to be configured in a matter of seconds and diagnosis tasks to be performed, with a view to minimising the time required for start-up or maintenance. The unit's special design means it is extremely quiet: so quiet that it may be confused with the sounds typical of a natural environment.

The use of premium components (Wilo, Alfa-Laval, GMCC, among others) has allowed the KHPMS-BI PRO to attain the highest ErP classifications and be considered a renewable energy source. Its features allow it to save energy, care for the planet and save money on bills. Lastly, the built-in control in the internal unit allows for a pleasant, intuitive user experience that can fulfil any zoning need. The option of controlling and monitoring your facility using the Comfort Home application ensures the user experience is even more pleasant and, above all, efficient.
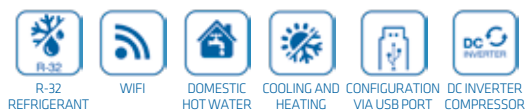
Revamp your facility and save!

Indoor unit with a minimalist design and selected materials, perfect for replacing boilers and gas wall heaters.

Enjoy terraces and balconies

Save up to 16 kW, with no need for an additional fan. Units with a greater capacity have a single fan as well so they occupy the least amount of space possible and to ensure the improved profitability of roofs and terraces/balconies.

* Radiators are only for heating.

K Kaysun by frigicoll

Product Sheet
DHW tank

Scan the QR code using your mobile phone's camera or click on it.

Product Sheet
KHPMS-BI PRO

R-32 REFRIGERANT	WIFI	DOMESTIC HOT WATER	COOLING AND HEATING	CONFIGURATION VIA USB PORT	DC INVERTER COMPRESSOR

KHPMS-BI PRO System			KHPMS-BI 4 DVR PRO	KHPMS-BI 6 DVR PRO	KHPMS-BI 8 DVR PRO	KHPMS-BI 10 DVR PRO	KHPMS-BI 12 DVR PRO
Power Supply			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Outdoor Unit			KHP-BI 4 DVR2	KHP-BI 6 DVR2	KHP-BI 8 DVR2	KHP-BI 10 DVR2	KHP-BI 12 DVR2
Indoor Unit			KHPM BI 6 DVR2	KHPM BI 6 DVR2	KHPM BI 10 DVR2	KHPM BI 10 DVR2	KHPM BI 16 DVR2
Recommended DHW tank			BSX270	BSX270	BSX270/475	BSX270/475	BSX270/475
Control			INTEGRATED				
Outdoor unit size (WxLxD)		mm	1008/712/426	1008/712/426	1118/865/523	1118/865/523	1118/865/523
Indoor unit size (WxLxD)		mm	420/790/270				
Indoor Unit	Weight	kg	58	58	77	77	96
	Refrigerant load	kg	1.5	1.5	1.65	1.65	1.84
	Refrigerants	Max. vertical distance with ext. unit at top	m	20	20	20	20	20
		Max. horizontal distance	m	30	30	30	30	30
		Fluid piping	Inches	1/4´´	1/4´´	3/8´´	3/8´´	3/8´´
		Gas piping	Inches	5/8´´	5/8´´	5/8´´	5/8´´	5/8´´
Water outlet temperature	Hydraulic piping	Inches	1´´	1´´	1´´	1´´	1´´
	Support resistor	W	3000	3000	3000	3000	3000
	Water outlet temperature	heating	°C	25~65	25~65	25~65	25~65	25~65
		cooling	°C	5~25	5~25	5~25	5~25	5~25
		DHW	°C	30~60	30~60	30~60	30~60	30~60
Operating range	heating	°C	-25~65	-25~65	-25~65	-25~65	-25~65
	cooling	°C	-5~43	-5~43	-5~43	-5~43	-5~43
	DHW	°C	-25~43	-25~43	-25~43	-25~43	-25~43

KHPMS-BI PRO System			KHPMS-BI 14 DVR PRO	KHPMS-BI 16 DVR PRO	KHPMS-BI 14 DTR PRO	KHPMS-BI 16 DTR PRO
Power Supply			220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50
Outdoor Unit			KHP-BI 14 DVR2	KHP-BI 16 DVR2	KHP-BI 14 DTR2	KHP-BI 16 DTR2
Internal Unit			KHPM BI 16 DVR2	KHPM BI 16 DVR2	KHPM BI 16 DVR2	KHPM BI 16 DVR2
Recommended DHW tank			BSX270/475	BSX475	BSX270/475	BSX475
Control			INTEGRATED			
Outdoor unit size (WxLxD)		mm	1118/865/523	1118/865/523	1118/865/523	1118/865/523
Indoor unit size (WxLxD)		mm	420/790/270			
Indoor Unit	Weight	kg	96	96	112	112
	Refrigerant load	kg	1.84	1.84	1.84	1.84
	Refrigerants	Max. vertical distance with ext. unit at top	m	20	20	20	20
		Max. horizontal distance	m	30	30	30	30
		Fluid piping	Inches	3/8´´	3/8´´	3/8´´	3/8´´
		Gas piping	Inches	5/8´´	5/8´´	5/8´´	5/8´´
Water outlet temperature	Hydraulic piping	Inches	1´´	1´´	1´´	1´´
	Support resistor	W	3000	3000	3000	3000
	Water outlet temperature	heating	°C	25~65	25~65	25~65	25~65
		cooling	°C	5~25	5~25	5~25	5~25
		DHW	°C	30~60	30~60	30~60	30~60
Operating range	heating	°C	-25~65	-25~65	-25~65	-25~65
	cooling	°C	-5~43	-5~43	-5~43	-5~43
	DHW	°C	-25~43	-25~43	-25~43	-25~43

KHPS-MO PRO
Monobloc Set - Kaysun's PRO Series

HP KEYMARK
www.heatpumpkeymark.com

The KHPS-MO PRO system is the compact, multi-tasking solution in the Aquantia PRO range that provides thermal comfort in small and medium spaces*. Thanks to its ability to pump water at up to 65°C with an external temperature of 5°C, it can provide heating through highly efficient radiators, fan coil units and underfloor heating, and it can accumulate DHW at 60°C (70°C with solar support or resistor). In summer it can cool the home down using the same heating terminals.

The new USB port allows the unit to be configured in a matter of seconds and diagnosis tasks to be performed, with a view to minimising the time required for start-up or maintenance. The unit's special design means it is extremely quiet: so quiet that it may be confused with the sounds typical of a natural environment. The use of premium components (Wilo, Alfa-Laval, GMCC, among others) has allowed the KHPS-MO PRO to attain the highest ErP classifications and be considered a renewable energy source. Its features allow it to save energy, care for the planet and save money on bills. Lastly, the built-in control via cable (included) allows for a pleasant, intuitive user experience that can fulfil any zoning need. The option of controlling and monitoring your facility using the Comfort Home application ensures the user experience is even more pleasant and, above all, efficient.

Adjust and save!

Cascade configuration possible with no special controls. The best solution for partializing the power supplied when needed, for replacing centralised systems and for touristic facilities.

No refrigerants licence

100% water solution, making it perfect for professionals who don't possess a licence to handle refrigerant gases, given that the external unit of the KHPS-MO PRO system only needs the hydraulic pipes to be connected.

H_2O

* Radiators are only for heating.

Product Sheet
DHW Tank

Product Sheet
KHPS-MO PRO

R-32
REFRIGERANT   WIFI   DOMESTIC
HOT WATER   COOLING AND
HEATING   CONFIGURATION
VIA USB PORT   DC INVERTER
COMPRESSOR

KHPS-MO PRO System			KHPS-MO 4 DVR PRO	KHPS-MO 6 DVR PRO	KHPS-MO 8 DVR PRO	KHPS-MO 10 DVR PRO	KHPS-MO 12 DVR PRO
Outdoor unit			KHP-MO 4 DVR2	KHP-MO 6 DVR2	KHP-MO 8 DVR2	KHP-MO 10 DVR2	KHP-MO 12 DVR2
Power Supply			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Recommended DHW tank			BSX270	BSX270	BSX270/475	BSX270/475	BSX270/475
Control			Wired. included				
Outdoor unit size (WxLxD)		mm	1295/792/429	1295/792/429	1385/945/526	1385/945/526	1385/945/526
Outdoor unit	Weight	kg	95	95	127	127	133
	Refrigerant load	kg	1.4	1.4	1.4	1.4	1.75
	Hydraulic connections	inches	R1"	R1"	R5/4"	R5/4"	R5/4"
	Support resistor	W	3000	3000	3000	3000	3000
Water outlet temperature	heating	°C	25~65	25~65	25~65	25~65	25~65
	cooling	°C	5~25	5~25	5~25	5~25	5~25
Operating range	heating	°C	-25~35	-25~35	-25~35	-25~35	-25~35
	cooling	°C	-5~43	-5~43	-5~43	-5~43	-5~43

KHPS-MO PRO System			KHPS-MO 14 DVR PRO	KHPS-MO 16 DVR PRO	KHPS-MO 12 DTR PRO	KHPS-MO 14 DTR PRO	KHPS-MO 16 DTR PRO
Outdoor unit			KHP-MO 14 DVR2	KHP-MO 16 DVR2	KHP-MO 12 DTR2	KHP-MO 14 DTR2	KHP-MO 16 DTR2
Power Supply			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Recommended DHW tank			BSX270/475	BSX475	BSX270/475	BSX270/475	BSX475
Control			Wired. included				
Outdoor unit size (WxLxD)		mm	1385/945/526				
Outdoor unit	Weight	kg	133	95	127	127	133
	Refrigerant load	kg	1.75	1.4	1.4	1.4	1.75
	Hydraulic connections	inches	R5/4"	R5/4"	R5/4"	R5/4"	R5/4"
	Support resistor	W	3000	3000	adjustable 9000/6000/3000	adjustable 9000/6000/3000	adjustable 9000/6000/3000
Water outlet temperature	heating	°C	25~65	25~65	25~65	25~65	25~65
	cooling	°C	5~30	5~30	5~30	5~30	5~30
Operating range	heating	°C	-25~35	-25~35	-25~35	-25~35	-25~35
	cooling	°C	-5~43	-5~43	-5~43	-5~43	-5~43

KHPS-MO PRO HP

Scan the QR code using your mobile phone's camera or click on it.

Product Sheet
KHPS-MO PRO

R-32 REFRIGERANT	WIFI	DOMESTIC HOT WATER	COOLING AND HEATING	CONFIGURATION VIA USB PORT	DC INVERTER COMPRESSOR

KHPS-MO PRO HP System			KHPS-MO 22 PRO HP	KHPS-MO 26 PRO HP	KHPS-MO 30 PRO HP
Outdoor unit			KHP-MO 22 DTR2	KHP-MO 26 DTR2	KHP-MO 30 DTR2
Power Supply			380-415/3/50	380-415/3/50	380-415/3/50
Control			Wired. included		
Outdoor unit size (WxLxD)		mm	1129/1558/440	1129/1558/440	1129/1558/440
Outdoor unit	Weight	kg	177	177	177
	Refrigerant load	kg	5	5	5
	Hydraulic connections	inches	1 1/4"	11/4"	1 1/4"
	Support resistor	W	Not included		
Water outlet temperature	heating	°C	25~60	25~60	25~60
	cooling	°C	5~25	5~25	5~25
	DHW	°C	40~60	40~60	40~60
Operating range	heating	°C	-5~46	-5~46	-5~46
	cooling	°C	-25~35	-25~35	-25~35
	DHW	°C	-25~43	-25~43	-25~43

DOMESTIC HOT WATER TANKS

DOMESTIC
HOT WATER

Product Sheet
DHW Tank

Model		BSX270	BSX475
Capacity	mm	270	475
Height/Diameter	kg	1209/700	1800/750
Weight	kg	136	212
Cleaning cap	inches	280	280
Tank protection layer		Steel	
Interior cover		Coat of enamel	
Exterior cover		Galvanized steel with electrostatic coating with powdered paint	
Casing colour		White	
Plugs & exterior cap material		Black plastic	
Insulating material and thickness		Injected polyurethane foam; 50 mm	
Input of sensors of automatic control of unit		3x (Ø13x100 mm)	
Operating pressure	bar	10	10
Test pressure	bar	13	13
Temperature indicator		Analogue temperature	
Anti-corrosive protection		Magnesium anode rod and tester	
Heat exchanger type		Heat coil	
Heat coil input diameter	inches	1"	11/4"
Heat coil surface	m²	2.48	3.06
Cold water inlet / Hot water outlet	inches	1" / 1"	1" / 1"
Circulation	inches	1"	1"

Installation diagrams
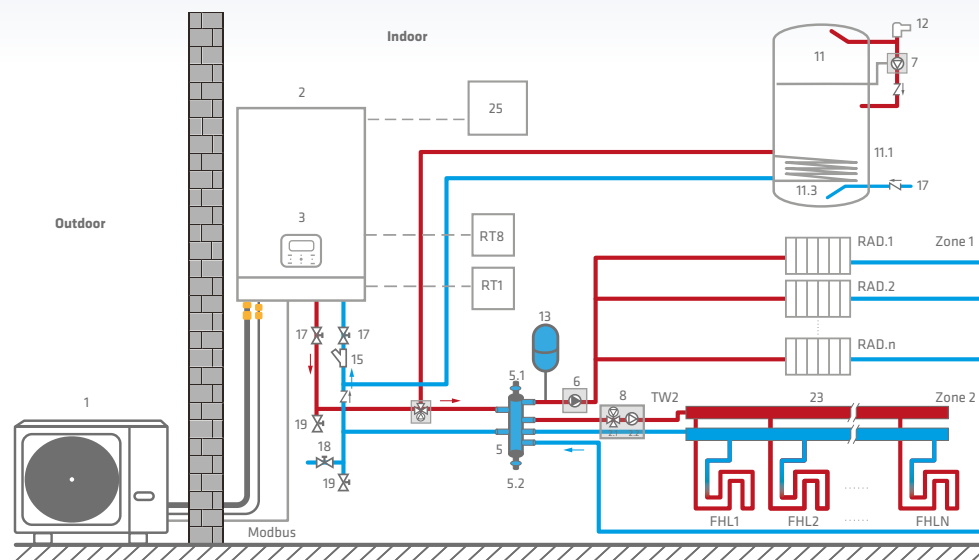
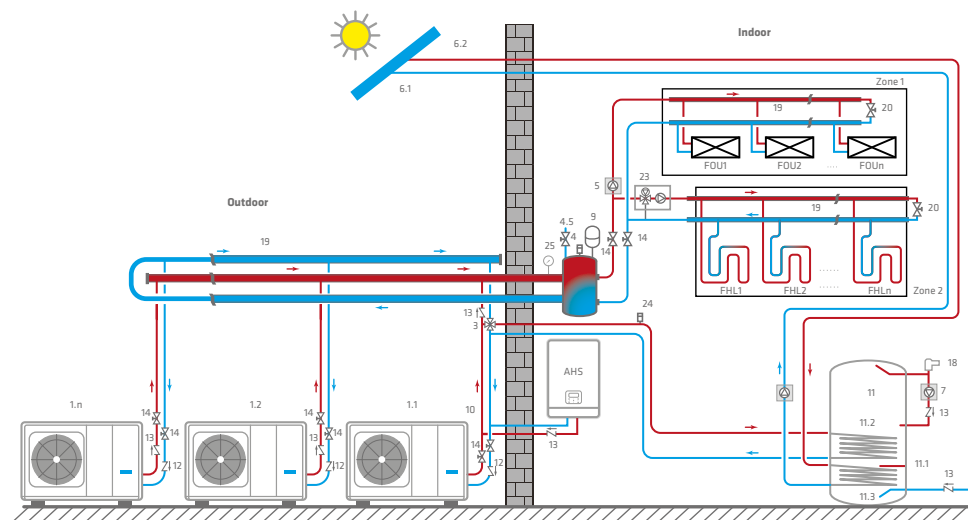| Code	Assembly unit
1	Outdoor Unit
2	Indoor Unit
3	User Interface
5	Balance tank (Field supply)
5.1	Automatic air purge valve
5.2	Drainage valve
6	P_o: zone 1 circulation pump (Field supply)
7	DHW recirculation pump (field supply)
8	Mixing station (Field supply)

Code	Assembly unit
8.1	SV3: Mixing valve (Field Supply)
8.2	P_c: zone 2 circulation pump
11	DHW tank
11.3	Condenser
12	Consumption
13	Expansion vessel (Field supply)
15	Filter (Accessory)
17	Tap water inlet pipe (field supply)
18	Filling valve (field supply)

Code	Assembly unit
18	Filling valve (field supply)
19	Drainage valve (Field supply)
23	Collection/distributor (Field Supply)
25	Thermostat transfer board (optional)
RT 1...7	Low voltage room thermostat (Field Supply)
RT8	High voltage room thermostat (Field Supply)
TW2	Zone 2 water flow temperature sensor (optional)
FHL 1 ...n	Floor heating loop (field supply)
RAD.1...n	Radiator (field supply)

This installation diagrams are simplified versions, for more diagrams or further information please visit our web and check Aquatix Range manual or contact our presales department.

Up to 6 units. It's not possible to mix KHPS-MO PRO and KHPS-MO HP PRO in the same cascade installation.

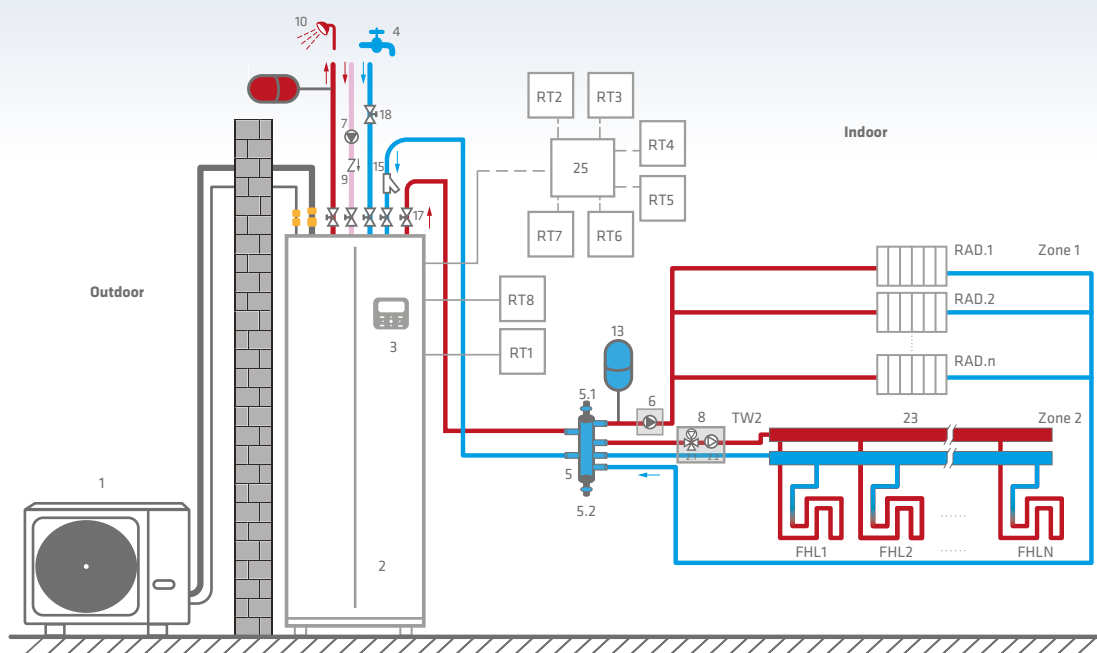| Code	Assembly unit
1.1	Master unit
1.2...n	Slave unit
3	SV1:3-way valve (Field supply)
4	Balance tank (Field supply)
4.1	Automatic bleed valve
4.2	Drainage valve
4.3	Tbt1: Balance tank upper temperature sensor (optional)
4.4	Tbt2: Balance tank lower temperature sensor (optional)
4.5	Filing valve
5	P_O: Outside circulation pump (Field supply)
6.1	Tsolar: Solar temperature sensor (Optional)
6.2	Solar Panel

Code	Assembly unit
7	P_D: DHW pipe pump (Field supply)
9	Espansion vessel (Field supply)
10	T1: Total water flow temperature sensor (Optional)
11	Domestic water tank (field supply)
11.1	TBH: Domestic water tank heater
11.2	Coin 1, heat exchanger for heat pump
11.3	Coin 2, heat exchanger for solar energy
12	Filter (Accessory)
13	Check value (Field supply)
14	Shut-off valve (Field supply)
17	Tap water inlet pipe (Field supply)
18	Hot water tap (Field supply)

| Code	Assembly unit
18	Hot water tap (Field supply)
19	Collector/distributor (Field supply)
20	Bypass valve (Field supply)
23	Mixing station (Field supply)
24	Automatic bleed valve (Field supply)
25	Water manometer (Field supply)
FHL1...n	Floor heating loop (Field supply)
ZONE1	The space operate cooling or heating mode
ZONE2	The space only operate heating mode
AHS	Auxiliary heat source (Field supply)

This installation diagrams are simplified versions, for more diagrams or further information please visit our web and check Aquatix Range manual or contact our presales department.

Code	Assembly unit	Code	Assembly unit	Code	Assembly unit
1	Outdoor Unit	7	DHW pump - inlet pipe (Field supply)	17	Shut-off valve (Field supply)
2	Indoor Unit	8	Mixing station (Field supply)	18	Safety valve (Field supply)
3	User Interface	8.1	SV3: Mixing vlave (Field Supply)	23	Collection/distributor (Field Supply)
4	Tap water - inlet pipe (Field supply)	8.2	P_c: zone 2 circulation pump (Field Supply)	RT 1...7	Low voltage room thermostat (Field Supply)
5	Balance tank (Field supply)	9	Check valve (Field supply)	RT8	High voltage room thermostat (Field Supply)
5.1	Automatic air purge valve	10	DHW production - outlet pipe (Field supply)	TW2	Zone 2 water flow temperature sensor (optional)
5.2	Drainage valve	13	Expansion vessel (Field supply)	FHL 1 ...n	Floor heating loop (field supply)
6	P_o: zone 1 circulation pump (Field supply)	15	Filter (Accessory)	RAD.1...n	Radiator (Field supply)

This installation diagrams are simplified versions, for more diagrams or further information please visit our web and check Aquatix Range manual or contact our presales department.

AQUANTIA ACCESSORIES	
Additional 6 mH_2O pump	Pump 6 mH_2O
Additional 7.5 mH_2O pump	Pump 7.5 mH_2O
Electric heater DHW tanks	RT2
20 l buffer tank, false ceiling	20 AR-S
30 l buffer tank, false ceiling	30 AR-S
40 l buffer tank, false ceiling	40 AR-S
Buffer tank	50 AR-A
Buffer tank	100 AR-A
Buffer tank accessory	KIT SOPORTE
Buffer tank accessory	PURGADOR PARA FALSO TECHO
Expansion vessels - primary	HWB8LX
Expansion vessels - primary	HWB12LX
Expansion vessels - primary	HWB18LX
Support for expansion vessels	BR3 UNIV
Kit 2 high temperature zones	KIRE2HX
Kit 2 high/low temperature zones	KIRE2HLX
Probe for additional heat source (boilers, heaters, etc.)	Sonda T1B + cable
Complete solar kit (exchanger, copper pipe, pump, brackets)	SOLX
Anti-vibration mounts	AMRX

KHHP-BI

Hybrid solution with Kaysun's Suite Multi
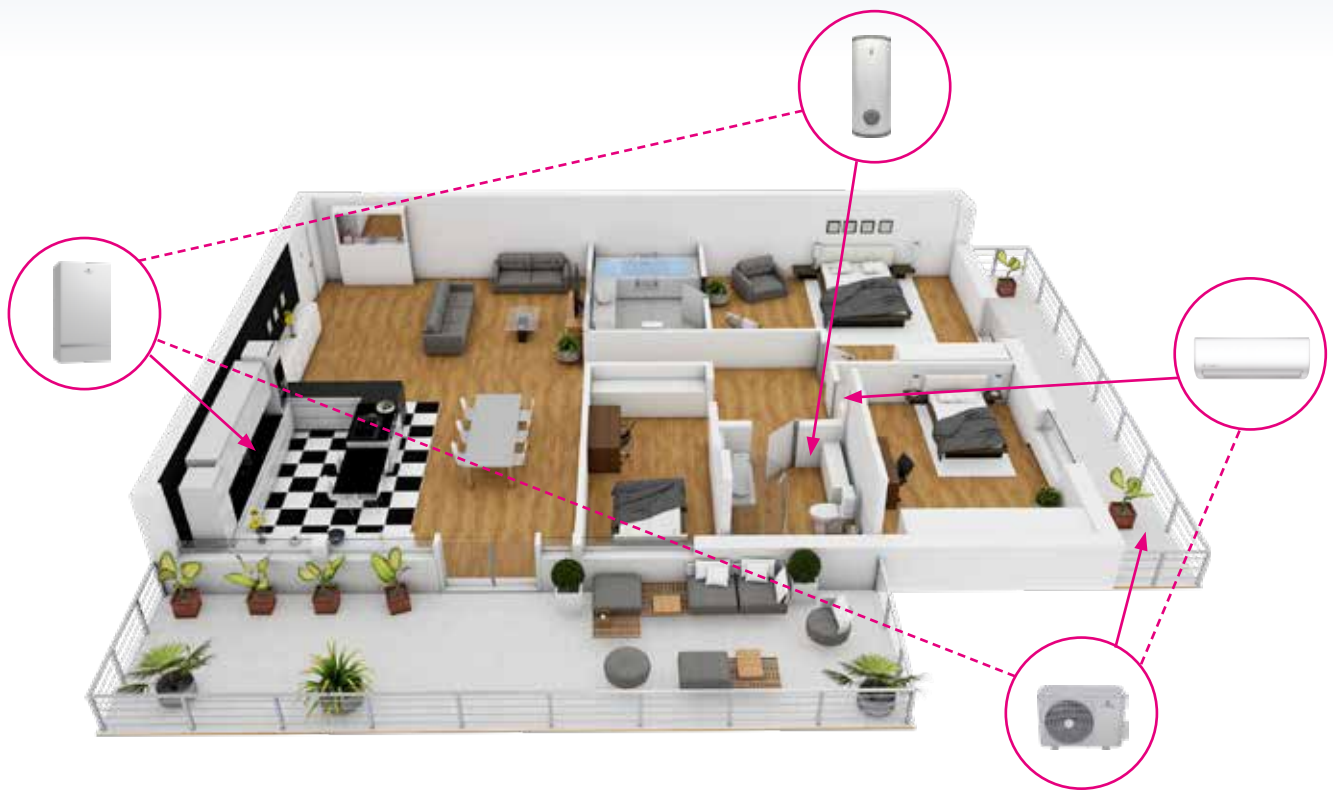
KHHP-BI is Kaysun's hybrid system that harnesses the immediacy and stability of an air-to-air system, combined with the unbeatable efficiency and thermal comfort of an air-to-water system. With a single external unit from the Multisystem R-32 range, it can provide any type of home with the maximum level of thermal comfort throughout the year. KHHP-BI will cool any indoor environment during the hottest summer months thanks to a maximum of three indoor units that can add up to 10.5 kW. Similarly, this solution provides heat during the coldest winter months thanks to its hydraulic wall kit that can supply any type of low or medium temperature terminal with hot water. If there is a need to produce domestic hot water, KHHP-BI can also be combined with our tanks and accumulate water up to 55°C. Compared with a conventional aerothermal system, the KHHP-BI system can be more accessible, given that it is usually faster. Enjoy the versatility and precision provided by the most innovative solution available in our range!

Customisable

Choose the type of direct indoor expansion unit that best suits your requirements. Our pre-sale service will be able to advise you in your selection.

Faster installation

Save thanks to a fast direct expansion facility and, thanks to the R-32, save 30% of load compared with the R-410A and reduce your GWP by 70%.

Product Sheet
KHHP-BI PRO

Product Sheet
Outdoor Multi R-32

Product Sheet
Prodigy Multi

Scan the QR code using your mobile phone's camera or click on it.

Product Sheet
DHW Tank

R-32

WiFi

Domestic Hot Water

DC Inverter compressor

Cooling & heating

Golden Fin

KHHP-BI

Air-to-Air	Capacity	Nominal cooling	kW	10.6
		EER	W/W	3.01
		Nominal heating	kW	11.1
		COP	W/W	3.71
	SEER (average climate)			6.1 - A++
	SCOP (average climate)			3.8 - A
Air-to-Water	Outdoor air 7°C Water 40/45°C	Nominal heating	kW	8
		COP	W/W	3.2
	Outdoor air -7°C Water 30/35°C	Nominal heating	kW	7.9
		COP	W/W	2.5
	SCOP (average climate)			4.26-A++
	SCOP (average climate)			2.93-A+
Hydraulic Kit	Size (WxDxL)		mm	490x325x918
	Net/gross weight		kg	56/64
	Electrical resistor	Power	W	3100
		Current	A	13.5
	Sound pressure		dB(A)	32
	Sound power		dB(A)	44
	Heating ranges	Room temp.	°C	-20~34
	DHW ranges	Room temp.	°C	-20~43
	Heating ranges	Water flow temp.	°C	25~60
	DHW ranges	Water flow temp.	°C	35~55

One unit	Two units	Three units		Four units		
7	7+KHHP-BI	7+7+KHHP-BI	9+12+KHHP-BI	7+7+7+KHHP-BI	7+9+12+KHHP-BI	9+12+12+KHHP-BI
9	9+KHHP-BI	7+9+KHHP-BI	9+18+KHHP-BI	7+7+9+KHHP-BI	7+9+18+KHHP-BI	9+12+18+KHHP-BI
12	12+KHHP-BI	7+12+KHHP-BI	12+12+KHHP-BI	7+7+12+KHHP-BI	9+9+9+KHHP-BI	12+12+12+KHHP-BI
18	18+KHHP-BI	7+18+KHHP-BI	12+18+KHHP-BI	7+7+18+KHHP-BI	9+9+12+KHHP-BI	12+12+18+KHHP-BI
KHHP-BI		9+9+KHHP-BI	18+18+KHHP-BI	7+9+9+KHHP-BI	9+9+18+KHHP-BI	

COMPAK
DHW Heat Pumps

HP KEYMARK
www.heatpumpkeymark.com

Compak heat pumps for domestic hot water are the ideal solution for providing comfort in a setting where heating needs are already met. Its degree of efficiency means it can be considered a form of renewable energy and makes it compliant with the standards in force. Its "plug & play" installation couldn't be simpler and the fact its air suction/expulsion can be channelled increases the number of options available in terms of its application.

By choosing the Compak, you're caring for the planet by reducing greenhouse gases, you'll save up to 45% on bills* and you can even avoid other costs associated with your gas bill, such as those for any gas-related risks. The system can operate at extreme external temperatures with no electrical resistor, which is only used if necessary to offer immediacy.

Desinfection mode

The Compak features an anti-legionella cleaning mode. This is carried out once a week by default.

Integration with renewable energy

The Compak S versions can use the energy produced by a solar thermal system to achieve an even higher level of efficiency.

* Regarding a class B or lower electric water heater.

Scan the QR code using
your mobile phone's
camera or click on it.

Product Sheet
Compak

Thermal
solar
support

Eco Mode

Domestic Hot
Water

Product Sheet
Solar Compak

Compak			COMPAK KHP 15/190 ACS1	COMPAK KHP 35/300 ACS1	With solar coil	
					COMPAK KHPA 16 190S	COMPAK KHPA 23 300S
Power supply		V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Volume of the domestic hot water accumulator		l	180	280	168	272
Tout 15/12 C (DB/WB); Tw.in 15°C; Tw.out 45°C	Nominal heating	kW	1.45	3.00	1.62	2.3
	COP	kW/kW	3.80	3.83	3.86	4.34
Supporting electrical resistor		kW		3		
SCOPdhw (UN 16147:2017)		W/W	2.98	3.21	3.13	3.59
Temperature ranges	Maximum DHW temperature (with support)	°C	60 (70)	60 (70)	60 (70)	60 (70)
Hydraulic connections	Water input	inches		Ø 3/4"		
	Water output	inches		Ø 3/4"		
	Solar input	inches	-	-	Ø 3/4"	Ø 3/4"
	Solar output	inches	-	-	Ø 3/4"	Ø 3/4"
Air input and output	Diameter	mm	Ø160	Ø190	Ø160	Ø190
	Useful static pressure	Pa	25	25	25	25
	Maximum length	m		≤10m		
	Outdoor air flow	m³/h	270/230/182	414/355/312	270	414
Sound pressure level (1m)		dB(A)	41	45	36.6	38.2
Sound power level (LWA)		dB(A)	56	56	51	53
Maximum working pressure		MPa	1	1	1	1
Main coil material			Copper	Copper	Aluminium	Aluminium
Accumulator tank material			Enamelled steel	Enamelled steel	Glass-lined steel	Glass-lined steel
Insulation material				Expanded polyurethane		
Size (h/Ø)		mm	1760/Ø560	1920/Ø650	1830/Ø552	1930/Ø657
Refrigerant circuit	Compressor type			Rotary-screw		
	Refrigerant gas			R134-a		
	Amount of refrigerant	kg	1.1	1.5	1.1	1.5
Integration						
Solar coil surface		m²	-	-	1.1	1.3
Solar coil material			-	-	Glass-lined steel	Glass-lined steel
Maximum working pressure		MPa	-	-	1	1

Aquantia PRO sets are now connected

TAKE CONTROL ON THE LEVEL OF COMFORT AT YOURS! SET THE MAIN PARAMETERS REMOTELY ANYTIME AND START TO FEEL COMFIE!

USE YOUR AQUANTIA IN THE SMARTEST WAY AND START TO SAVE ON BILLS! DOWNLOAD COMFORT HOME FROM THE APPLE STORE OR GOOGLE PLAY

Download on the **App Store**

ANDROID APP ON **Google play**

7 ACCESSIBLE, CLEAN ENERGY

11 SUSTAINABLE CITIES AND COMMUNITIES

13 CLIMATE ACTION

Sustainable development goals

The aerothermal heat pump substantially helps to overcome the global challenge of a more sustainable society. The Sustainable Development Goals of the United Nations' 2030 Agenda include three goals that are directly related to this technology. Furthermore, European Directive 2009/28/EC on the promotion of the use of energy from renewable sources positions the heat pump at the heart of European sustainability policies.

Combine Aquantia PRO with your PV facility!

The entire PRO range is capable of using energy from a photovoltaic system and storing energy during more favourable hours. In addition, thanks to the Smart Grid protocol, Aquantia uses data from the solar switchboard and smart electrical energy meter to save on bills without neglecting the user's thermal comfort.

Comprehensive projects

Our team of expert technicians carry out comprehensive air conditioning and ventilation projects specific to each client, adapting to any space and need. This service is complemented by personalised advice to ensure our facilities operate correctly.

REFERENCES
KEY INSTALLATIONS

The heat pump is a more sustainable solution than the traditional hot water boiler, offering improved energy efficiency and faster, simpler installation. Savings and efficiency define it.

RUBER HOSPITAL
PUBLIC BUILDING

Location: Madrid
Initial situation: Renovation
Units installed: AIR-WATER
Capacity: 130 kW

ITEVE
BUSINESS CENTRE

Location: Badajoz (Extremadura)
Initial situation: Renovation
Units installed: Compak KHP
Capacity: 245 kW

QUIRÓN HOSPITAL
PUBLIC BUILDING

Location: Torrevieja
Initial situation: New construction
Units installed: AIR-WATER
Capacity: 65 kW

INSTITUTION ST. LOUIS
SCHOOL

Location: France
Initial situation: Renovation
Units installed: KHP 72 ACS + G1
Capacity: 6.5 kW

JARDINES DE LORCA
HOTEL

Location: Murcia
Initial situation: New construction
Units installed: AIR-WATER
Capacity: 260 kW

SYNERGYM
GYM

Location: GYM
Initial situation: Renovation
Units installed: 5 KHP 35 300 ACS1
Capacity: 18 kW

Notes

Kaysun by **frigicoll**

ISO 14001 SGS SYSTEM CERTIFICATION

ISO 9001 SGS SYSTEM CERTIFICATION