TEMPLARI

THE HEAT PUMP

PRICE LIST AND TECHNICAL CATALOGUE 2025

Technology
Made in Italy


TEMPLARI
THE HEAT PUMP

PRICE LIST AND TECHNICAL CATALOGUE 2025

Residential air-to-water heat pumps
Industrial air-to-air heat pumps
Remote control
Storage tanks/boilers and Accessories

Templari was founded in 2006 by Gianluca and Massimo Masiero, with the goal of offering new-generation heat-pump systems with very low environmental impact.

The heart of the company, born from the passion and professionalism of the two brothers, is the R&D department where the best products are created, such as KITA, an innovative, unique heat pump entirely developed and designed in Italy. KITA AIR was designed to heat and cool workplaces such as offices, industrial sheds, warehouses and workshops. It's an air-to-air heat pump ideal for large spaces that require high performance and where operating costs and respect for the environment are priority requirements.

Over time, the KITA and KITA AIR product lines have evolved and important operational and design improvements have been implemented, leading to the current product on the market: a heat pump that combines technology and innovation with a sophisticated design, guaranteeing high performance, even at extremely low outside temperatures (below -20°C).

The KITA Templari lines offer an environmentally friendly solution that does not require the integration of boilers, so as to permanently avoid the use of environmentally harmful fossil fuels. Every day Templari deploys massive resources, expertise and professionalism to ensure a constant evolution in the performance of its products, implementing new solutions and functions that make the KITA lines more and more efficient and ecological, in order to satisfy a wide range of customer needs.

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RESIDENTIAL AIR-TO-WATER HEAT PUMPS

INNOVATIVE SOLUTIONS FOR LIVING COMFORT

KITA XS | KITA SP-R290 | KITA MP-R290 | KITA LP-R290 | KITA LR-R32 | KITA LP/Plus-R290 | KITA LR-Plus-R32

Residential

Templari's KITA lines are an ecological solution that does not require the integration of boilers, thus allowing the definitive detachment from fossil fuels, which are harmful to the environment. Templari, every day, invests great resources, skills and professionalism that allow a continuous evolution of the performances of the offered products, implementing new solutions and functionalities that make the KITA lines, more and more efficient and ecological, in order to satisfy the widest needs of the customers.

INDUSTRIAL AIR-TO-AIR HEAT PUMPS

INNOVATIVE SOLUTIONS FOR INDUSTRIAL COMFORT

INDUSTRIAL AREAS - WAREHOUSES - COMMERCIAL SPACES

External unit

KITA AIR | KITA AIR COLD | KITA AIR PLUS

Outdoor unit

DUCTED | SPLIT

Industrial

Conditioning large spaces with maximum efficiency.
The KITA Air air-to-air heat pump units are the best solution for conditioning large internal spaces such as warehouses, production areas, warehouses and gyms, both for winter heating and for summer conditioning.

KITA Air allows you to avoid the hydraulic circuit and the installation between the outdoor and indoor units is simple, immediate and economical.

Applications

Industrial areas | Warehouses | Commercial spaces

Advantages

Remote monitoring | Ease of installation

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RESIDENTIAL AIR-TO-WATER HEAT PUMPS

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RESIDENTIAL AIR-TO-WATER HEAT PUMPS

Outdoor Unit

KITA XS | KITA SP | KITA MP | KITA LP | KITA LP/Plus | KITA LR | KITA LR/Plus

ADVANTAGES

The Templari heat pumps of the KITA line are able to produce heating and cooling of rooms and at the same time produce hot water Sun. hot water in all seasons of the year.

The different heat pump lines offer the possibility to choose the best solution according to one's needs, making the most of the performance of the chosen heat pump.

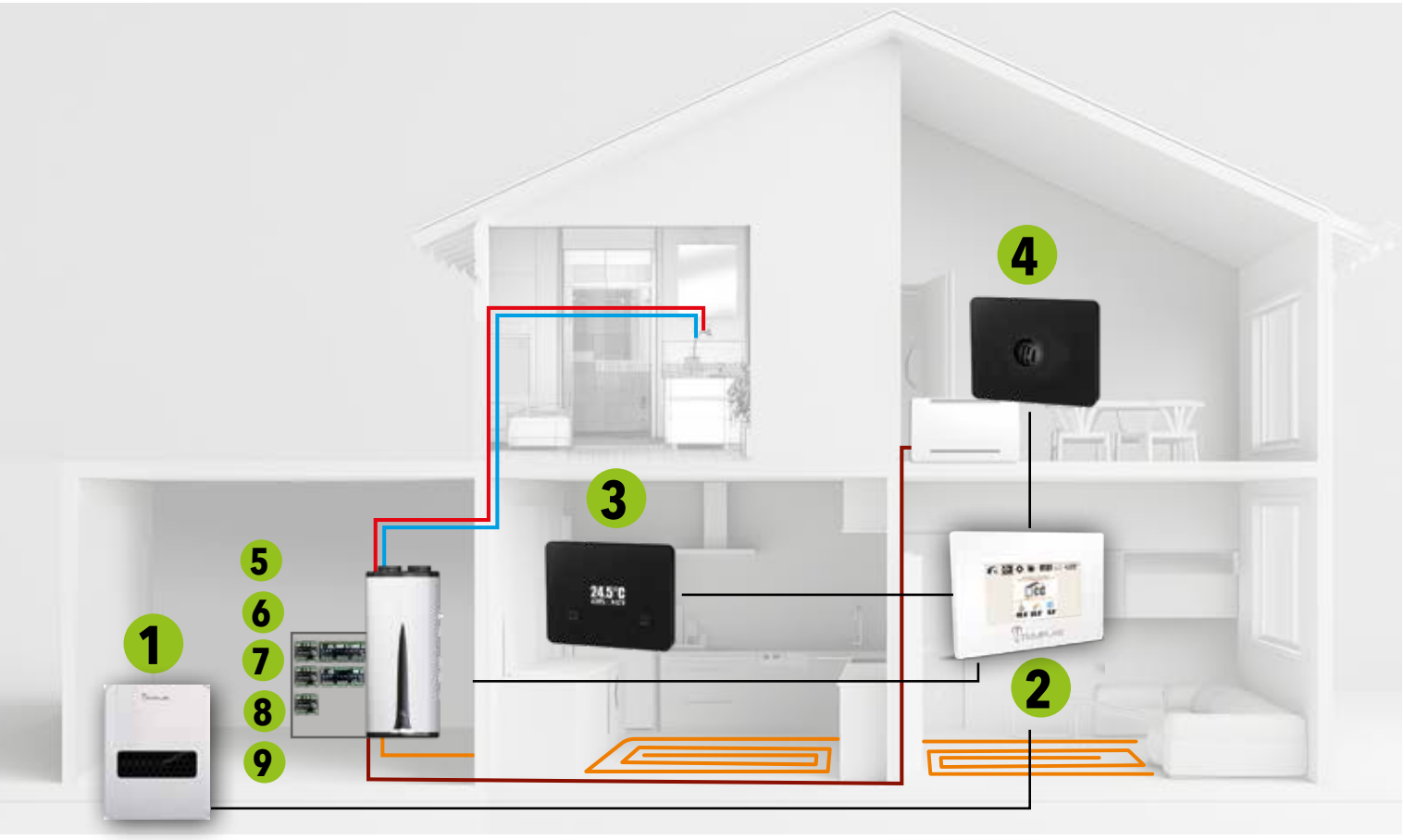
The KITA line is ideal for single dwellings or large residential spaces such as terraced houses or large apartment blocks.

The KITA line can also be powered by electricity generated from renewable sources, creating energy savings and further reducing costs, thus increasing the return on investment.

The technology of the KITA line allows, thanks to the use of the various devices integrated in the system, to continuously monitor the correct operation of the machine, with the possibility of remotely changing environmental parameters according to one's needs.

Thanks to a wide range of accessories, the pumps in the KITA line can be managed or integrated with Templari or third-party home automation systems, allowing remote control of the home's temperatures.

HCC THERMAL REGULATION FOR REMOTE CONTROL

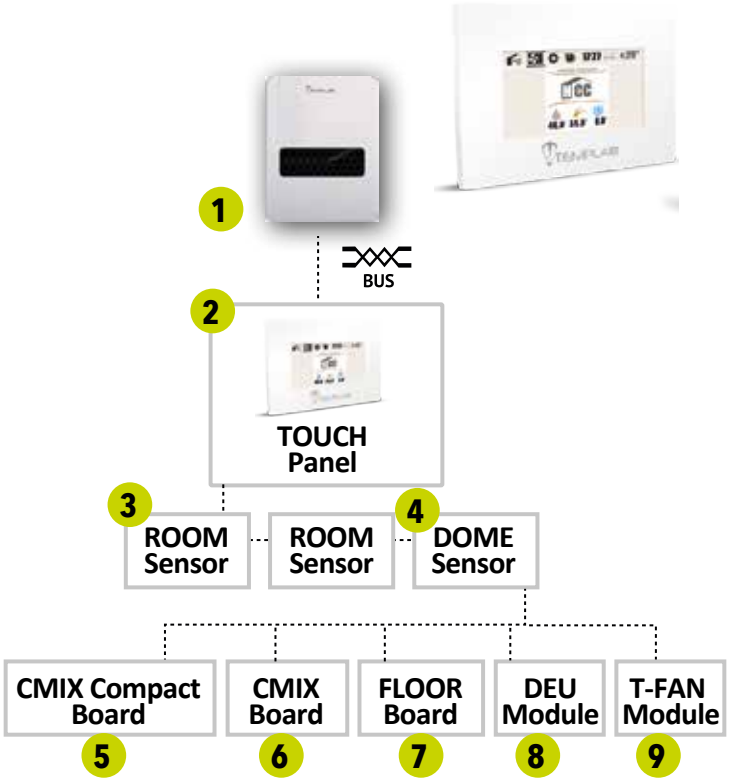


HCC system

Comfort management in a few touches!
For precise and efficient control of our heat pumps, we have developed HOUSE CLIMATE CONTROL (HCC), a management software capable of optimising the performance of the heat pump thus guaranteeing optimal living comfort.
The software also allows remote supervision of the entire system.

The HCC system consists mainly of:

- Touch Display: allows you to monitor and set all the system;
- ROOM sensors: monitor in real time the temperature and humidity of the different rooms;
- DOME sensors: monitor in real time the temperature and humidity of the different rooms;
- FLOOR boards: acquire the data of the ROOM sensors, and manage mixers and circulators.
- CMIX Compact boards: capable of managing a secondary circuits, a direct one or mixed one, acquiring the room request by closing the relative digital enabling inputs (DRY CONTACT ROOM THERMOSTAT), or from the associated Room and Dome sensors;
- CMIX boards: capable of managing up to two secondary circuits, a direct one and a mixed one, acquiring the room request by closing the relative digital enabling inputs (DRY CONTACT ROOM THERMOSTAT), or from the associated Room and Dome sensors;
- DEU boards: manage a room dehumidifier, based on the humidity measured by ROOM or DOME sensors;



- T-Fan Module: manages a 0-10V or 3-speed fan-coil unit, depending on the temperature measured by the associated Room or Dome sensor.

RESIDENTIAL

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R-290

No need to space it from the wall!

RESIDENTIAL

KITA XS 7.5 – XS 9

High-efficiency reversible air-to-water heat pump

Technology
Made in Italy

KITA XS 7.5 - XS 9

High-efficiency reversible air-to-water heat pump

Kita XS is a new model, available in two versions of 7.5 kw and 9 kw; compact and elegant, it ensures home comfort even at low outside temperatures. Thanks to the use of R290 refrigerant gas, Kita XS is environmentally friendly.

Extremely versatile, it can be installed in new buildings and apartments. It is also suitable for retrofitting of single and semi-detached houses thanks to the possibility of raising the water outlet temperature up to 65 °C.

Unlike previous models, Kita XS can be placed against the wall.

Thanks to the suction fan at the front and expulsion from the side walls, the moving air does not cause any discomfort: on the contrary, this heat pump is very quiet.

Equipped with the new, natural refrigerant R290

Does not require periodic F-gas control

Modern remote control system

Advatantages:

- A+++ Energy class
- Heating
- Cooling
- Domestic Hot Water
- Made in Italy — Italian technology
- Apartments
- Remote monitoring
- Photovoltaic integration
- CE
- 025
- ICIM CERTIFIED PRODUCT

K-TOUCH remote control panel assembled in the technical cabinet

MODEL KITA XS

MODELL	COD.
XS 7.5 - 1 ph	4.1.12.1
XS 7.5 - 3 ph	4.1.12.2
XS 9 - 1 ph	4.1.12.3
XS 9 - 3 ph	4.1.12.4

MONO TECHNICAL CABINET

MODEL	COD.
TECHNICAL CABINET	4.8.1.4

XS Heat Pump

Complete supply

Mono Technical Cabinet (accessory)

TECHNICAL DATA - KITA XS

MODEL	Heating												DHW		Cooling			
	A 12°C / W 35° C		A 7°C / W 35° C		A 2°C / W 35° C		A -7°C / W 35° C		A -15°C / W 35° C		A -20°C / W 35° C		A 2°C / W 65° C		A35°C / W 7° C		A35°C / W 18° C	
	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qc kW	EER	Qc kW	EER
XS 7.5	7,58	5,90	7,50	4,66	6,47	4,31	5,32	3,26	4,23	2,73	3,64	2,47	5,53	2,45	6,00	3,15	6,45	4,78
XS 9	7,53	5,47	9,00	4,23	7,76	3,74	6,43	2,88	5,12	2,43	4,39	2,18	6,87	2,23	7,00	2,79	6,65	4,71

KITA XS 7.5 – XS 9

High-efficiency reversible air-to-water heat pump

TECHNICAL DATA

Energy class:	A+++
Noise level:	Max sound pressure at 1 meter distance:53 dB (A)*
Compressor:	Inverter Twin rotary
External fan:	Type: EC Nominal diameter: 450 mm Max Speed: 600 rpm
SCOP average climate (low temperature application 35 °C)	5,51 (X7,5) - 5,07 (X9)
SCOP average climate (medium temperature application 55 °C)	4,31 (X7,5) - 4,03 (X9)

SEER Cooling mode - fan coil application	4,84 (Xs 7,5) - 4,59 (Xs 9)
SEER Cooling mode - cooling floor application	6,11 (Xs 7,5) - 6,11 (Xs 9)
Finned coil:	Fin spacing: 2,5 mm
Exchanger:	Type: Double wall Material: stainless steel
Refrigerant:	R290
Diameter of water pipes:	Input; 1" Output: 1"
Hydraulic circuit:	Pump type: EC
Dimensions:	1000 mm (H) x 1000 mm (L) x 435 mm (P) low version 1205 mm (H) x 1000 mm (L) x 435 mm (P) high version
Weight:	155 Kg (Xs 7.5) - 160 Kg (Xs 9)

TECHNICAL CABINET

Model	**MONO TECHNICAL CABINET**
Touch panel assembled	7" Display
Mixed circuit / Direct circuit	5 combination (max 2 circuits)
Buffer tank	200 + 40 L, classe B
Valve	3-way
Expansion vessels	N. 2 standard (+ 1 optional - DHW)
Magnetic dirt separator filter	N. 1
Sanitary thermostatic mixer	N. 1
Self Filling unit	N. 1 - Optional
Dimensions	700 x 700 x 2050 H mm

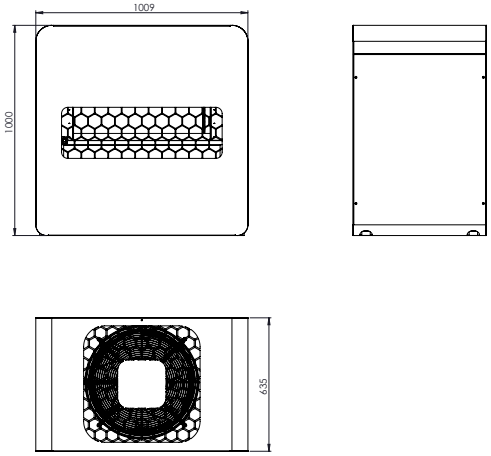
* Can be assembled externally on request

*The declared dB(A) values are obtained with the flow grid and silence kit installed

KITA XS 7.5 - XS 9

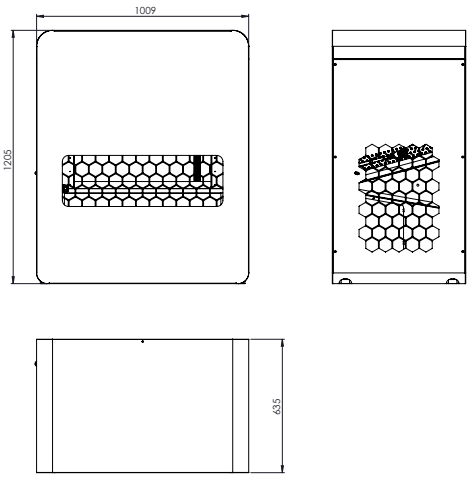
High-efficiency reversible air-to-water heat pump

LOW VERSION



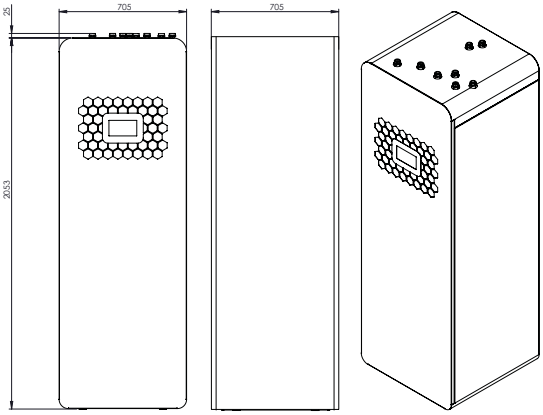
LOW VERSION CODE 4.5.1.18

HIGH VERSION



HIGH VERSION CODE 4.5.1.17

MONO TECHNICAL CABINET



CODE 4.8.1.4

RESIDENTIAL

R 290 | KITA XS

Code	Description	Note	
4.1.12.1	XS 7.5 - 1 ph		
4.1.12.2	XS 7.5 - 3 ph		
4.1.12.3	XS 9 - 1 ph		
4.1.12.4	XS 9 - 3 ph		

XS version to choose from the options:

Code	Description	Note	
4.5.1.17	High Version		
4.5.1.18	Low version		

Obligatory Accessory - Controller:

Code	Description	Note	
4.5.3.2	7" Touch Panel		
4.5.3.16	9,7" Touch Panel	Alternative to 4.5.3.2	

Obligatory Accessory - Frame:

Code	Description	Note	
1.1.1.1.102	Flush-mounted frame for 7" touch panel		
1.1.2.1.50	External wall-mounted metal frame for 7" touch panel	Alternative to the 1.1.1.1.102 wall-mounted frame	
4.5.1.14	Flush-mounted frame for 9.7" touch panel		

Obligatory accessory to choose from the options:

Code	Description	Note	
4.5.3.18	Tsplit board integration kit	Board for digital communication between internal and external unit	
EL.CV_ETH10	Ethernet cable, 10 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH20	Ethernet cable, 20 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH30	Ethernet cable, 30 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH50	Ethernet cable, 50 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	

Hydraulic Options - DHW Valve Kit consisting of:

Code	Description	Note	
4.5.4.1	3-WAY valve kit (body + motor in actuator)		
SN.NTCWP3M	Temperature sensor NTC IP68 WH	3 m	
4.10.1.3	Wilo Para 9 Circulator Kit	Alternative to the standard circulator	
2.4.2.5	Antifreeze valve with brass body 1" 1/2		

Electric Options:

Code	Description	Note	
2.5.7.1	HCC, 100m roll of cable 2x0.50mmq for MODBUS connection	Modbus cable to connect the machine to the HCC (controller)	
4.5.2.8	HCC, Power kit - pair of 200m coils (red+black) 1mmq cable		
EL.CV_IM10	System and B2-B3 Buffer tank cable, length 10mt	Cable connecting the machine to the buffer probes	
4.5.2.11	XS R290 dual power supply electrical panel		

Electronic options:

Code	Description	Note	
BMS BOARD	Electronic board for additional serial port		
4.5.3.3	Floor board	A BMS board is required one per machine	
4.5.3.4	C-Mix board	A BMS board is required one per machine	
4.5.3.10	Modbus Dehumidification board, for DIN rail	Obligatory with the purchase BMS BOARD one per machine and at least one of: 4.5.3.20/4.5.3.19/4.5.3.5/6	
4.5.3.11	T-meter: Immersion probe module	Pool thermostat - A BMS board is required one per machine	
4.5.3.12	3-way auxiliary valve Modbus board for DIN rail	A BMS board is required one per machine	
4.5.3.14	Modbus Integration and anti-legionella board, for DIN rail	A BMS board is required one per machine	
4.5.3.27	T-Hybrid board - Module for managing the hybrid boiler + PDC configuration	A BMS board is required one per machine	
4.5.3.28	T-Fan module VS/SS	Obligatory with the purchase BMS BOARD one per machine and at least one 4.5.35/6 and 4.5.3.19/20	
4.5.3.29	C-Mix Compact board	A BMS board is required one per machine	

Add-ons:

Code	Description	Note	
4.5.3.5*	Room temperature and humidity sensor - Black	Obligatory as an alternative to codes. 4.5.3.20/4.5.3.19/4.5.3.6	
4.5.3.6*	Room temperature and humidity sensor - White	Obligatory as an alternative to codes 4.5.3.20/4.5.3.19/4.5.3.5	
4.5.3.20*	DOME temperature and humidity sensor- Black	Obligatory as an alternative to codes4.5.3.5/4.5.3.6/4.5.3.19	
4.5.3.19*	DOME temperature and humidity sensor - White	Obligatory as an alternative to codes4.5.3.5/4.5.3.6/4.5.3.20	

*A BMS BOARD IS REQUIRED

R 290 | KITA XS + MONO TECHNICAL CABINET

Code	Description	Note	
4.1.12.1	XS 7.5 - 1 ph		
4.1.12.2	XS 7.5 - 3 ph		
4.1.12.3	XS 9 - 1 ph		
4.1.12.4	XS 9 - 3 ph		

XS version to choose from the options:

Code	Description	Note	
4.5.1.17	High Version		
4.5.1.18	Low version		

Obligatory Accessory:

Code	Description	Note	
4.8.1.4	Mono Technical Cabinet		

Obligatory Accessory to choose from the options for internal or external installation of the panel

Code	Description	Note	
4.5.3.34	Internal 7" Touch Screen Panel	Present inside the Mono Technical Cabinet	
4.5.1.20	Mono Technical Cabinet KIT for Remote Display	mandatory to select either code 4.5.3.2 or code 4.5.3.16	
4.5.3.2	External 7" Touch Screen Panel		
4.5.3.16	9,7" Touch Panel	Alternative to 4.5.3.2	

Obligatory Accessory - Frame:

Code	Description	Note	
1.1.1.1.102	Flush-mounted frame for 7" touch panel		
1.1.2.1.50	External wall-mounted metal frame for 7" touch panel	Alternative to the 1.1.1.1.102 wall-mounted frame	
4.5.1.14	Flush-mounted frame for 9.7" touch panel		

Mono Technical Cabinet Configuration - Obligatory to choose from the options:

Code	Description	Note	
4.5.4.8	Direct Relaunch	Max expected re-launch combinations n. 2	
4.5.4.9	Mixed relaunch	Max expected re-launch combinations n. 2	

Obligatory accessory to choose from the options:

Code	Description	Note	
EL.CV_ETH10	Ethernet cable, 10 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH20	Ethernet cable, 20 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH30	Ethernet cable, 30 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH50	Ethernet cable, 50 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	

Optional Accessory - Mono Technical Cabinet:

Code	Description	Note	
4.5.3.30	Resistance kit for mono technical cabinet 1.2kW and 3kW	1.2kW for technical water and 3kW for domestic hot water	
4.5.3.31	Resistance kit for mono technical cabinet 3Kw	for domestic hot water	

Electronic obligatory accessories:

Code	Description	Note	
BMS BOARD	Electronic board for additional serial port		
4.5.3.5	Room temperature and humidity sensor - Black	Obligatory as an alternative to codes. 4.5.3.20/4.5.3.19/4.5.3.6	
4.5.3.6	Room temperature and humidity sensor - White	Obligatory as an alternative to codes 4.5.3.20/4.5.3.19/4.5.3.5	
4.5.3.20	DOME temperature and humidity sensor - Black	Obligatory as an alternative to codes4.5.3.5/4.5.3.6/4.5.3.19	
4.5.3.19	DOME temperature and humidity sensor - White	Obligatory as an alternative to codes4.5.3.5/4.5.3.6/4.5.3.20	

Electric option:

Code	Description	Note	
4.5.2.10	Dual power supply 24A control panel		

Electronic options:

Code	Description	Note	
4.5.3.4	C-Mix board	A BMS board is required one per machine	
4.5.3.3	Floor board	A BMS board is required one per machine	
4.5.3.29	C-Mix Compact board	A BMS board is required one per machine	
4.5.3.10	Modbus Dehumidification board, for DIN rail	Obligatory with the purchase BMS BOARD one per machine and at least one of:4.5.3.20/4.5.3.19/4.5.3.5/6	
4.5.3.11	T-meter: Immersion probe module	Pool thermostat - A BMS board is required one per machine	
4.5.3.12	3-way auxiliary valve Modbus board for DIN rail	A BMS board is required one per machine	
4.5.3.27	T-Hybrid board - Module for managing the hybrid boiler + PDC configuration	A BMS board is required one per machine	
4.5.3.28	T-Fan module VS/SS	Obligatory with the purchase BMS BOARD one per machine and at least one 4.5.35/6 and 4.5.3.19/20	
4.5.3.14	Modbus Integration and anti-legionella board, for DIN rail	A BMS board is required one per machine	

Hydraulic Options:

Code	Description	Note	
4.10.1.3	Wilo Para 9 Circulator Kit	Alternative to the standard circulator	
2.4.2.5	Antifreeze valve with brass body 1" 1/2		

TEMPLARI
THE HEAT PUMP

NATURAL REFRIGERANT ECO FRIENDLY
R-290

RESIDENTIAL

KITA HRP

High-efficiency reversible air-to-water

Technology
Made in Italy

KITA HRP

High-efficiency reversible air-to-water

High efficiency air-water reversible monoblock HRP series heat pumps, with inverter scroll compressor, suitable for meeting the needs of buildings with low thermal demand.

Full-Inverter operation: adapts the machine to the precise heat load requirements of the home, with savings over 30%.

Ideal for domestic hot water production up to 65°C.

KITA heat pumps are designed in Italy and integrate perfectly into both modern and classic buildings.

First-class electronics ensure total control over the operation of the machine, even remotely.

Kita is environmentally friendly as it doesn't rely on fossil fuels, providing heating and air conditioning without the need for an auxiliary boiler.

K-TOUCH
remote control
panel

Advantages:

- A+++ Energy class
- Heating
- Cooling
- Domestic Hot Water
- Made in Italy — Italian technology
- Photovoltaic integration
- Single homes
- Villas
- Remote monitoring
- Easy to install
- Top ventilation

CE 025 ICIM CERTIFIED PRODUCT

MODELS KITA HRP

MODEL	MONOBLOCK CODE
HRP 10	4.1.11.5
HRP 10 3phase	4.1.11.1
HR12	4.1.11.6
HRP 12 3phase	4.1.11.2
HRP 14	4.1.11.7
HRP 14 3phase	4.1.11.3
HRP 16	4.1.11.8
HRP 16 3phase	4.1.11.4

TECHNICAL DATA - KITA HRP

MODEL	Heating										DHW		Cooling			
	A 12°C / W 35° C		A 7°C / W 35° C		A 2°C / W 35° C		A -7°C / W 35° C		A -20°C / W 35° C		A 2°C / W 65° C		A35°C / W 7° C		A35°C / W 18° C	
	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qc kW	EER	Qc kW	EER
HRP 10	10,32	5,16	9,06	4,43	7,50	3,25	6,93	3,01	5,18	2,31	6.50	1,88	7,92	3,23	11,17	4,60
HRP 12	13,69	5,71	12,09	4,90	10,63	4,23	8,80	3,11	6,11	2,23	9,04	2,27	9,26	3,01	13,00	4,21
HRP 14	15,93	5,34	14,09	4,61	12,42	3,99	10,31	2,96	7,18	2,13	10,60	2,11	10,68	2,74	13,00	4,21
HRP 16	17,99	4,93	15,93	4,25	14,04	3,70	11,01	2,91	7,67	2,10	11,11	1,94	11,09	2,65	13,00	4,21

KITA HRP

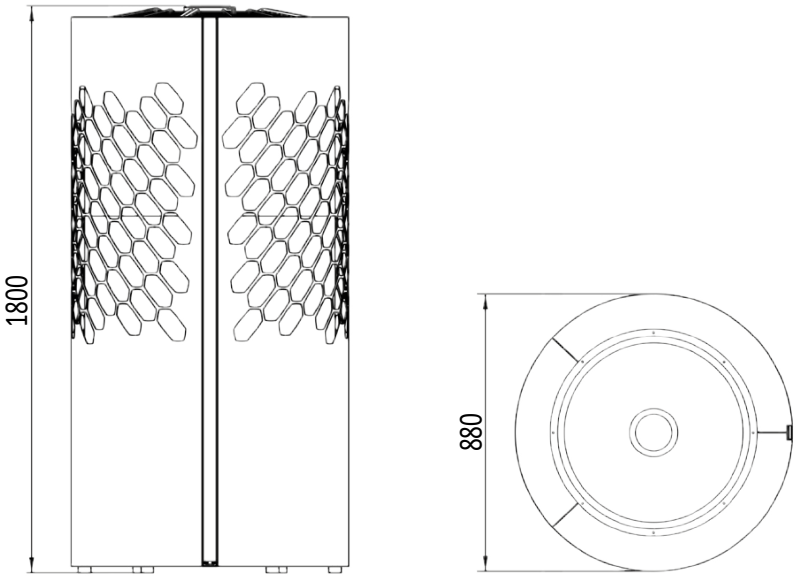
High-efficiency reversible air-to-water

FEATURES MONOBLOCK

Energy class:	A+++
Power supply:	HRP10: 230 V - 1 ph - 50Hz HRP10 3phase: 400 V - 3 ph - 50Hz HRP12: 230 V - 1 ph - 50Hz HRP12 3phase: 400 V - 3 ph - 50Hz HRP14: 230 V - 1 ph - 50Hz HRP14 3phase: 400 V - 3 ph - 50Hz HRP16: 230 V - 1 ph - 50Hz HRP16 3phase: 400 V - 3 ph - 50Hz
Noise level:	Max sound pressure at 1 meter distance:38 dB(A)

Compressor:	Compressor: Scroll
External fan:	Inverter typology: BLDC Nominal diameter: 630 mm Max Speed: 600 rpm
Exchanger:	Type: Plates Material: stainless steel
Refrigerant:	R290 Q.ty 1,35Kg
Diameter of water pipes:	Input; 1" Output: 1"
Hydraulic circuit:	Pump type: EC
Weight:	230 Kg
Dimensions:	880 mm (Ø) x 1800mm (h)

DIMENSIONS



RESIDENTIAL

R 290 | KITA HRP

Code	Description	Note	
4.1.11.5	KITA-HRP 10, 1Ph		
4.1.11.1	KITA-HRP 10, 3Ph		
4.1.11.6	KITA-HRP 12, 1Ph		
4.1.11.2	KITA-HRP 12, 3Ph		
4.1.11.7	KITA-HRP 14, 1Ph		
4.1.11.3	KITA-HRP 14, 3Ph		
4.1.11.8	KITA-HRP 16, 1Ph		
4.1.11.4	KITA-HRP 16, 3Ph		

Mandatory accessory, to be chosen from the options

Code	Description	Note	
4.5.1.5	WHITE kit, covers for KITA HR outdoor unit		
4.5.1.6	BLACK kit, covers for KITA HR outdoor unit		

Obligatory Accessory - Controller:

Code	Description	Note	
4.5.3.2	7" Touch Panel		
4.5.3.16	9,7" Touch Panel	Alternative to 4.5.3.2	

Obligatory Accessory - Frame:

Code	Description	Note	
1.1.1.1.102	Flush-mounted frame for 7" touch panel		
1.1.2.1.50	External wall-mounted metal frame for 7" touch panel	Alternative to the 1.1.1.1.102 wall-mounted frame	
4.5.1.14	Flush-mounted frame for 9.7" touch panel		

Obligatory accessory to choose from the options:

Code	Description	Note	
4.5.3.18	Tsplit board integration kit	Board for digital communication between internal and external unit	
EL.CV_ETH10	Ethernet cable, 10 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH20	Ethernet cable, 20 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH30	Ethernet cable, 30 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH50	Ethernet cable, 50 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	

Hydraulic options:

Code	Description	Note	
4.5.4.1	3-WAY valve kit (body + motor in actuator)		
SN.NTCWP3M	Temperature sensor NTC IP68 WH.	3 m	

4.10.1.3	Wilo Para 9 Circulator Kit	Alternative to the standard circulator	
2.4.3.1	Flexible stainless steel connection pipes kit with 1 1/4" F fittings	2 pieces	
K-FY	Brass 2" Y-filter with 1 1/4" connections		
2.4.2.5	Antifreeze valve with brass body 1" 1/2		

Electric options:

Code	Description	Note	
2.5.7.1	HCC, 100m roll of cable 2x0.50mmq for MODBUS connection	Modbus cable to connect the machine to the HCC (controller)	
4.5.2.8	HCC, Power kit - pair of 200m coils (red+black) 1mmq cable		
4.5.2.7	9kW Auxiliary Heater Kit	Heating element for supply pipe. To be installed separately.	
K.RSC	Condensate drain pipe heater		
EL.CV_IM10	System and B2-B3 Buffer tank cable, length 10mt	Cable connecting the machine to the buffer probes	
4.5.2.10	Dual power supply 24A control panel		

Electronic options:

Code	Description	Note	
BMS BOARD	Electronic board for additional serial port		
4.5.3.3	Floor board	A BMS board is required one per machine	
4.5.3.4	C-Mix board	A BMS board is required one per machine	
4.5.3.10	Modbus Dehumidification board, for DIN rail	Obligatory with the purchase BMS BOARD one per machine and at least one of: 4.5.3.20/4.5.3.19/4.5.3.5/6	
4.5.3.11	T-meter: Immersion probe module	Pool thermostat - A BMS board is required one per machine	
4.5.3.12	3-way auxiliary valve Modbus board for DIN rail	A BMS board is required one per machine	
4.5.3.14	Modbus Integration and anti-legionella board, for DIN rail	A BMS board is required one per machine	
4.5.3.27	T-Hybrid board - Module for managing the hybrid boiler + PDC configuration	A BMS board is required one per machine	
4.5.3.28	T-Fan module VS/SS	Obligatory with the purchase BMS BOARD one per machine and at least one 4.5.35/6 and 4.5.3.19/20	
4.5.3.29	C-Mix Compact board	A BMS board is required one per machine	

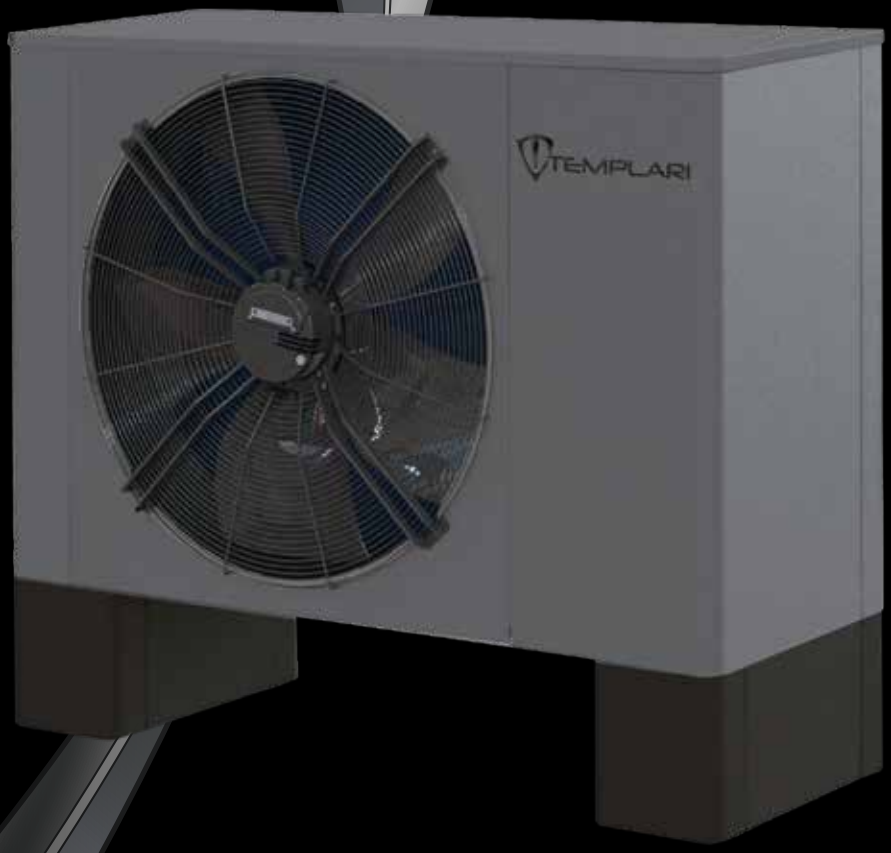
Add-ons:

Code	Description	Note	
4.5.3.5*	Room temperature and humidity sensor - Black	Obligatory as an alternative to codes. 4.5.3.20/4.5.3.19/4.5.3.6	
4.5.3.6*	Room temperature and humidity sensor - White	Obligatory as an alternative to codes 4.5.3.20/4.5.3.19/4.5.3.5	
4.5.3.20*	DOME temperature and humidity sensor- Black	Obligatory as an alternative to codes4.5.3.5/4.5.3.6/4.5.3.19	
4.5.3.19*	DOME temperature and humidity sensor - White	Obligatory as an alternative to codes4.5.3.5/4.5.3.6/4.5.3.20	

*A BMS BOARD IS REQUIRED

TEMPLARI
THE HEAT PUMP

NATURAL REFRIGERANT ECO FRIENDLY
R-290



KITA SP

High-efficiency reversible air-to-water

Technology
Made in Italy

KITA SP

High-efficiency reversible air-to-water

High efficiency air-water reversible monoblock SP series heat pumps, with inverter scroll compressor, suitable for meeting the needs of buildings with low thermal demand.

Full-Inverter operation: adapts the machine to the precise heat load requirements of the home, with savings over 30%.

Ideal for domestic hot water production up to 65°C.

KITA heat pumps are designed in Italy and integrate perfectly into both modern and classic buildings.

First-class electronics ensure total control over the operation of the machine, even remotely.

Kita is environmentally friendly as it doesn't rely on fossil fuels, providing heating and air conditioning without the need for an auxiliary boiler.

NATURAL REFRIGERANT ECO FRIENDLY

R-290

K-TOUCH remote control panel

Advantages:

- A+++ Energy class
- Heating
- Cooling
- Domestic Hot Water
- Made in Italy — Italian technology
- Photovoltaic integration
- Single homes
- Villas
- Remote monitoring
- Easy to install
- Front ventilation

CE 025 ICIM CERTIFIED PRODUCT

KITA SP/R290

MODEL	Heating												DHW		Cooling			
	A 12°C / W 35° C		A 7°C / W 35° C		A 2°C / W 35° C		A -7°C / W 35° C		A -15°C / W 35° C		A -20°C / W 35° C		A 2°C / W 65° C		A35°C / W 7° C		A35°C / W 18° C	
	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qc kW	EER	Qc kW	EER
SP-8 4.1.7.16	9,00	6,91	8,00	5,78	7,01	4,92	5,76	3,72	4,59	3,01	4,03	2,55	5,71	2,70	6,40	3,86	9,36	5,57
SP-10 4.1.7.19	11,30	6,37	10,00	5,44	8,81	4,72	7,36	3,52	5,87	2,86	5,13	2,44	7,42	2,60	8,22	3,62	10,00	5,43
SP-12 4.1.7.21	13,65	5,81	12,10	4,99	11,53	4,23	10,94	3,02	8,82	2,50	7,61	2,20	9,78	2,66	10,00	3,36	10,00	5,43

KITA SP

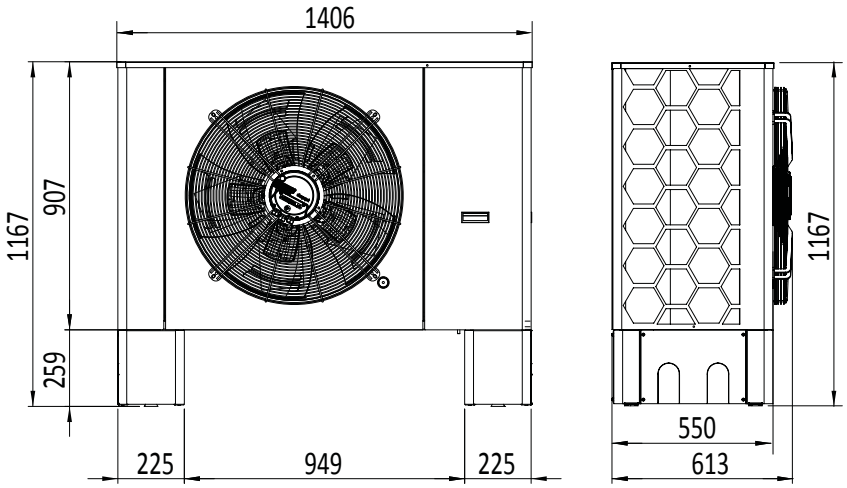
High-efficiency reversible air-to-water

TECHNICAL DATA

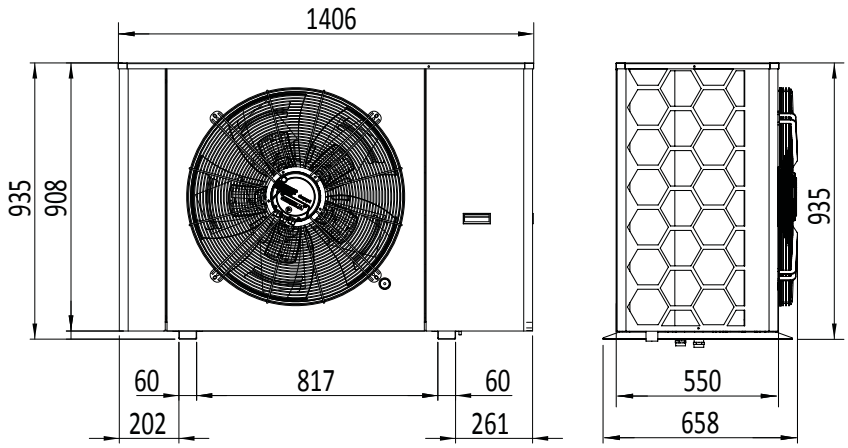
Energy class:	A+++
Noise level:	Max sound pressure at 1 meter distance:50dB(A)*
Compressor:	Compressor: Scroll
External fan:	Type: EC Nominal diameter: 710 mm Max Speed: 600 rpm
SCOP average climate (low temperature application 35 °C)	5,61 (SP-8) - 5,75 (SP-10) 5,44 (SP-12)
SCOP average climate (medium temperature application 55 °C)	4,09 (SP-8) - 4,20 (SP-10) 4,05 (SP-12)

SEER Cooling mode - fan coil application	5,35 (SP-8) - 5,65 (SP-10) 5,52 (SP-12)
SEER Cooling mode - cooling floor application	7,65 (SP-8) - 7,86 (SP-10) 7,86 (SP-12)
Finned coil:	Fin spacing: 2,5 mm
Exchanger:	Type: Plates Material: stainless steel
Refrigerant:	R290
Diameter of water pipes:	Input; 1" Output: 1"
Hydraulic circuit:	Pump type: EC
Dimensions:	908 mm (H) x 1406 mm (L) x 550 mm (P)
Weight:	180 Kg

DIMENSIONS WITH LEGS



DIMENSIONS WITH BRACKETS



*The declared dB(A) values are obtained with the flow grid and silence kit installed

R 290 | KITA SP

Code	Description	Note	
4.1.7.16	Outdoor unit KITA-SP-8 WITH SEP., 3Ph, vers. MONOBLOCK R290	Scroll	
4.1.7.17	Outdoor unit KITA-SP-8 WITH SEP., 1Ph, vers. MONOBLOCK R290	Scroll	
4.1.7.19	Outdoor unit KITA-SP-10 WITH SEP., 3Ph, vers. MONOBLOCK R290	Scroll	
4.1.7.18	Outdoor unit KITA-SP-10 WITH SEP., 1Ph, vers. MONOBLOCK R290	Scroll	
4.1.7.21	Outdoor unit KITA-SP-12 WITH SEP., 3Ph, vers. MONOBLOCK R290	Scroll	
4.1.7.20	Outdoor unit KITA-SP-12 WITH SEP., 1Ph, vers. MONOBLOCK R290	Scroll	

Obligatory accessory to be chosen from the options - Outdoor Unit:

Code	Description	Note	
4.5.1.10	Support brackets for outdoor unit	To be used with 2.1.3.2 or 2.1.3.3	
4.5.1.2	Metal legs for outdoor unit	Alternative to 4.5.1.10	

Obligatory Accessory - Controller:

Code	Description	Note	
4.5.3.2	7'' Touch Panel		
4.5.3.16	9,7'' Touch Panel	Alternative to 4.5.3.2	

Obligatory Accessory - Frame:

Code	Description	Note	
1.1.1.1.102	Flush-mounted frame for 7'' touch panel		
1.1.2.1.50	External wall-mounted metal frame for 7'' touch panel	Alternative to the 1.1.1.1.102 wall-mounted frame	
4.5.1.14	Flush-mounted frame for 9.7'' touch panel		

Obligatory Accessories:

Code	Description	Note	
4.5.3.18	T-split board kit	Board for digital communication between indoor and outdoor units	
4.10.1.1	CIRCULATOR KIT PARA 8		

Obligatory Accessories to choose from the options:

Code	Description	Note	
EL.CV_ETH10	Ethernet cable, 10 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH20	Ethernet cable, 20 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH30	Ethernet cable, 30 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH50	Ethernet cable, 50 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	

Hydraulic Options:

Code	Description	Note	
4.5.4.1	3-WAY valve kit (body + motor in actuator)		
SN.NTCWP3M	Temperature sensor NTC IP68 WH.	3 m	

4.10.1.3	Wilo Para 9 Circulator Kit	Alternative to the standard circulator	
2.4.3.1	Flexible stainless steel connection pipes kit with 1 1/4" F fittings	2 pieces	
K-FY	Brass 2" Y-filter with 1 1/4" connections		
2.4.2.5	Antifreeze valve with brass body 1" 1/2		

Electric options:

Code	Description	Note	
2.5.7.1	HCC, 100m roll of cable 2x0.50mmq for MODBUS connection	Modbus cable to connect the machine to the HCC (controller)	
4.5.2.8	HCC, Power kit - pair of 200m coils (red+black) 1mmq cable		
4.5.2.7	9kW Auxiliary Heater Kit	Heating element for supply pipe. To be installed separately.	
K.RSC	Condensate drain pipe heater		
EL.CV_IM10	System and B2-B3 Buffer tank cable, length 10mt	Cable connecting the machine to the buffer probes	
4.5.2.10	Dual power supply 24A control panel		

Electronic options:

Code	Description	Note	
BMS BOARD	Electronic board for additional serial port		
4.5.3.3	Floor board	A BMS board is required one per machine	
4.5.3.4	C-Mix board	A BMS board is required one per machine	
4.5.3.10	Modbus Dehumidification board, for DIN rail	Obligatory with the purchase BMS BOARD one per machine and at least one of: 4.5.3.20/4.5.3.19/4.5.3.5/6	
4.5.3.11	T-meter: Immersion probe module	Pool thermostat - A BMS board is required one per machine	
4.5.3.12	3-way auxiliary valve Modbus board for DIN rail	A BMS board is required one per machine	
4.5.3.14	Modbus Integration and anti-legionella board, for DIN rail	A BMS board is required one per machine	
4.5.3.27	T-Hybrid board - Module for managing the hybrid boiler + PDC configuration	A BMS board is required one per machine	
4.5.3.28	T-Fan module VS/SS	Obligatory with the purchase BMS BOARD one per machine and at least one 4.5.35/6 and 4.5.3.19/20	
4.5.3.29	C-Mix Compact board	A BMS board is required one per machine	

Add-ons:

Code	Description	Note	
4.5.3.5*	Room temperature and humidity sensor - Black	Obligatory as an alternative to codes. 4.5.3.20/4.5.3.19/4.5.3.6	
4.5.3.6*	Room temperature and humidity sensor - White	Obligatory as an alternative to codes 4.5.3.20/4.5.3.19/4.5.3.5	
4.5.3.20*	DOME temperature and humidity sensor- Black	Obligatory as an alternative to codes4.5.3.5/4.5.3.6/4.5.3.19	
4.5.3.19*	DOME temperature and humidity sensor - White	Obligatory as an alternative to codes4.5.3.5/4.5.3.6/4.5.3.20	

*A BMS BOARD IS REQUIRED

Optional:

Code	Description	Note	
4.5.1.7	Outdoor unit coil protection grid	Protection grid	
4.5.1.12	Fan cover	Front Grid	
2.1.3.2	Pair of 1200x700 mm wall brackets for outdoor unit		
2.7.6.10	Anti-vibration M10 x 28 Ø 50x30 mm Male Male	4 pieces	
2.1.3.3	BASE SBR floor supports, dimensions L250xH95xP130	Obligatory with brackets 4.5.1.10	

TEMPLARI
THE HEAT PUMP

NATURAL REFRIGERANT ECO FRIENDLY
R-290

KITA MP

High-efficiency reversible air-to-water

Technology
Made in Italy

KITA MP

High-efficiency reversible air-to-water

High efficiency air-water reversible monoblock MP series heat pumps, with inverter scroll compressor.

Full-Inverter operation: adapts the machine to the precise heat load requirements of the home, with savings over 30%.

Ideal for domestic hot water production up to 65°C.

KITA heat pumps are designed in Italy and integrate perfectly into both modern and classic buildings.

First-class electronics ensure total control over the operation of the machine, even remotely.

Kita is environmentally friendly as it doesn't rely on fossil fuels, providing heating and air conditioning without the need for an auxiliary boiler.

NATURAL REFRIGERANT ECO FRIENDLY

R-290

K-TOUCH remote control panel

Advantages:

- A+++ Energy class
- Heating
- Cooling
- Domestic Hot Water
- Made in Italy — Italian technology
- Photovoltaic integration
- Single homes
- Villas
- Remote monitoring
- Easy to install
- Front ventilation

CE 025 ICIM CERTIFIED PRODUCT

KITA MP/R290

MODEL	Heating												DHW		Cooling			
	A 12°C / W 35° C		A 7°C / W 35° C		A 2°C / W 35° C		A -7°C / W 35° C		A -15°C / W 35° C		A -20°C / W 35° C		A 2°C / W 65° C		A35°C / W 7° C		A35°C / W 18° C	
	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qc kW	EER	Qc kW	EER
MP-14 4.1.8.1	15,75	5,78	14,00	4,92	12,31	4,26	10,31	3,18	8,26	2,59	7,10	2,27	10,47	2,23	12,00	3,11	12,00	5,61
MP-16 4.1.8.2	17,34	5,62	15,04	4,75	13,58	4,16	11,36	2,95	9,13	2,53	7,84	2,21	11,52	2,11	12,00	3,11	12,00	5,61
MP-18 4.1.8.3	20,33	5,84	18,04	5,09	15,91	4,46	13,24	3,31	10,65	2,69	9,17	2,32	14,18	2.49	12,00	3,38	12,00	5,41
MP-20 4.1.8.4	22,47	5,63	20,00	4,90	18,42	4,27	16,38	3,16	13,25	2,58	11,49	2,25	16,38	2,37	12,00	3,38	12,00	5,41

KITA MP

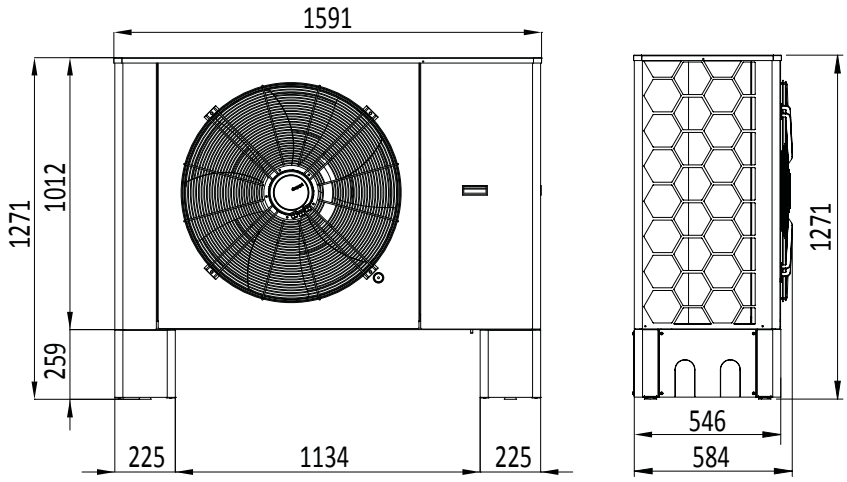
High-efficiency reversible air-to-water

TECHNICAL DATA

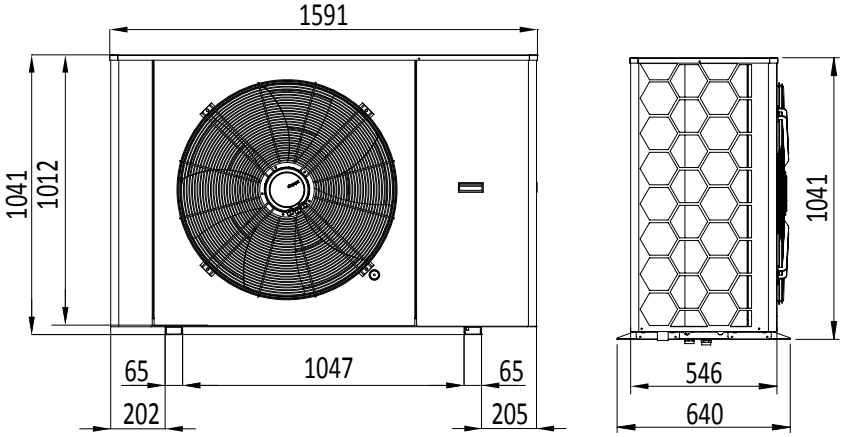
Energy class:	A+++
Noise level:	Max sound pressure at 1 meter distance:MP 14 - MP 16 50dB (A)* MP 18 - MP 20 51dB (A)*
Compressor:	Inverter Scroll
External fan:	BLDC type Nominal diameter: 800 mm Max Speed: 600 rpm
SCOP average climate (low temperature application 35 °C)	5,19 (MP-14) - 5,13 (MP-16) 5,38 (MP-18) - 5,25 (MP-20)
SCOP average climate (medium temperature application 55 °C)	3,76 (MP-14) - 3,76 (MP-16) - 4,18 (MP18) - 4,12 (MP-20)
Finned coil:	Fin spacing: 2,5 mm

SEER Cooling mode - fan coil application	5,86 (MP-14) - 5,86 (MP-16) 5,70 (MP-18) - 5,70 (MP-20)
SEER Cooling mode - cooling floor application	8,61 (MP-14) - 8,61 (MP-16) - 6,97 (MP18) - 6,97 (MP-20)
Exchanger:	Type: Plates Material: stainless steel
Refrigerant:	R290
Diameter of water pipes:	Input; 1" Output: 1"
Hydraulic circuit:	Pump type: EC
Dimensions:	1012 mm (H) x 1591 mm (L) x 546 mm (P)
Weight:	220 Kg

DIMENSIONS WITH LEGS



DIMENSIONS WITH BRACKETS



*The declared dB(A) values are obtained with the flow grid and silence kit installed

R 290 | KITA MP

Code	Description	Note	
4.1.8.1	Outdoor unit KITA-MP-14, 3Ph, vers. MONOBLOCK R290		
4.1.8.5	Outdoor unit KITA-MP-14, 1Ph, vers. MONOBLOCK R290		
4.1.8.2	Outdoor unit KITA-MP-16, 3Ph, vers. MONOBLOCK R290		
4.1.8.6	Outdoor unit KITA-MP-16, 1Ph, vers. MONOBLOCK R290		
4.1.8.3	Outdoor unit KITA-MP-18, 3Ph, vers. MONOBLOCK R290		
4.1.8.4	Outdoor unit KITA-MP-20, 3Ph, vers. MONOBLOCK R290		

Obligatory accessory to be chosen from the options - Outdoor Unit:

Code	Description	Note	
4.5.1.1	Support brackets for outdoor unit	To be used with 2.1.3.2 or 2.1.3.3	
4.5.1.2	Metal legs for outdoor unit	Alternative to 4.5.1.1	

Obligatory Accessory - Controller:

Code	Description	Note	
4.5.3.2	7'' Touch Panel		
4.5.3.16	9,7'' Touch Panel	Alternative to 4.5.3.2	

Obligatory Accessory - Frame:

Code	Description	Note	
1.1.1.1.102	Flush-mounted frame for 7'' touch panel		
1.1.2.1.50	External wall-mounted metal frame for 7'' touch panel	Alternative to the 1.1.1.1.102 wall-mounted frame	
4.5.1.14	Flush-mounted frame for 9.7'' touch panel		

Obligatory Accessory:

Code	Description	Note	
4.5.3.18	T-split board kit	Board for digital communication between indoor and outdoor units	

Obligatory Accessories to choose from the options:

Code	Description	Note	
EL.CV_ETH10	Ethernet cable, 10 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH20	Ethernet cable, 20 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH30	Ethernet cable, 30 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH50	Ethernet cable, 50 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	

Hydraulic options:

Code	Description	Note	
4.5.4.1	3-WAY valve kit (body + motor in actuator)		
SN.NTCWP3M	Temperature sensor NTC IP68 WH.	3 m	

4.10.1.3	Wilo Para 9 Circulator Kit	Alternative to the standard circulator	
2.4.3.1	Flexible stainless steel connection pipes kit with 1 1/4" F fittings	2 pieces	
K-FY	Brass 2" Y-filter with 1 1/4" connections		
2.4.2.5	Antifreeze valve with brass body 1" 1/2		

Electric options:

Code	Description	Note	
2.5.7.1	HCC, 100m roll of cable 2x0.50mmq for MODBUS connection	Modbus cable to connect the machine to the HCC (controller)	
4.5.2.8	HCC, Power kit - pair of 200m coils (red+black) 1mmq cable		
4.5.2.7	9kW Auxiliary Heater Kit	Heating element for supply pipe. To be installed separately.	
K.RSC	Condensate drain pipe heater		
EL.CV_IM10	System and B2-B3 Buffer tank cable, length 10mt	Cable connecting the machine to the buffer probes	
4.5.2.10	Dual power supply 24A control panel		

Electronic options:

Code	Description	Note	
BMS BOARD	Electronic board for additional serial port		
4.5.3.3	Floor board	A BMS board is required one per machine	
4.5.3.4	C-Mix board	A BMS board is required one per machine	
4.5.3.10	Modbus Dehumidification board, for DIN rail	Obligatory with the purchase BMS BOARD one per machine and at least one of: 4.5.3.20/4.5.3.19/4.5.3.5/6	
4.5.3.11	T-meter: Immersion probe module	Pool thermostat - A BMS board is required one per machine	
4.5.3.12	3-way auxiliary valve Modbus board for DIN rail	A BMS board is required one per machine	
4.5.3.14	Modbus Integration and anti-legionella board, for DIN rail	A BMS board is required one per machine	
4.5.3.27	T-Hybrid board - Module for managing the hybrid boiler + PDC configuration	A BMS board is required one per machine	
4.5.3.28	T-Fan module VS/SS	Obligatory with the purchase BMS BOARD one per machine and at least one 4.5.35/6 and 4.5.3.19/20	
4.5.3.29	C-Mix Compact board	A BMS board is required one per machine	

Add-ons:

Code	Description	Note	
4.5.3.5*	Room temperature and humidity sensor - Black	Obligatory as an alternative to codes. 4.5.3.20/4.5.3.19/4.5.3.6	
4.5.3.6*	Room temperature and humidity sensor - White	Obligatory as an alternative to codes 4.5.3.20/4.5.3.19/4.5.3.5	
4.5.3.20*	DOME temperature and humidity sensor- Black	Obligatory as an alternative to codes4.5.3.5/4.5.3.6/4.5.3.19	
4.5.3.19*	DOME temperature and humidity sensor - White	Obligatory as an alternative to codes4.5.3.5/4.5.3.6/4.5.3.20	
4.5.2.11	XS R290 dual power supply electrical panel		

*A BMS BOARD IS REQUIRED

Optional:

Code	Description	Note	
4.5.1.8	Outdoor unit coil protection grid	Protection grid	
4.5.1.13	Fan cover	Front Grid	
VE.800FG	Fan flow grid d. 800		
4.5.6.1	SILENCE KIT surcharge for outdoor unit	Alternative to standard insulation	
2.1.3.2	Pair of 1200x700 mm wall brackets for outdoor unit		
2.7.6.10	Anti-vibration M10 x 28 Ø 50x30 mm Male Male	4 pieces	
2.1.3.3	BASE SBR floor supports, dimensions L250xH95xP130	Obligatory with brackets 4.5.1.1	
4.5.5.3	AXITOP diffuser d. 800		

TEMPLARI
THE HEAT PUMP

NATURAL REFRIGERANT ECO FRIENDLY
R-290

RESIDENTIAL

KITA LP

High-efficiency reversible air-to-water

Technology
Made in Italy

KITA LP

High-efficiency reversible air-to-water

High efficiency air-water reversible monoblock LP series heat pumps, with inverter scroll compressor.

Full-Inverter operation: adapts the machine to the precise heat load requirements of the home, with savings over 30%.

Ideal for domestic hot water production up to 65°C.

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First-class electronics ensure total control over the operation of the machine, even remotely.

Kita is environmentally friendly as it doesn't rely on fossil fuels, providing heating and air conditioning without the need for an auxiliary boiler.

NATURAL REFRIGERANT ECO FRIENDLY **R-290**

K-TOUCH remote control panel

Advantages:

- A+++ Energy class
- Heating
- Cooling
- Domestic Hot Water
- Made in Italy — Italian technology
- Photovoltaic integration
- Villas
- Condos
- Remote monitoring
- Easy to install
- Front ventilation
- CE
- 025
- ICIM CERTIFIED PRODUCT

KITA LP/R290

MODEL	Heating												DHW		Cooling			
	A 12°C / W 35° C		A 7°C / W 35° C		A 2°C / W 35° C		A -7°C / W 35° C		A -15°C / W 35° C		A -20°C / W 35° C		A 2°C / W 65° C		A35°C / W 7° C		A35°C / W 18° C	
	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qc kW	EER	Qc kW	EER
LP-22 4.1.9.10	22,92	5,41	22,00	4,52	20,20	4,09	16,10	3,08	12,87	2,51	11,79	2,18	17,69	2,27	17,14	3,00	19,94	4,54
LP-26 4.1.9.11	29,54	5,81	26,18	5,08	23,12	4,44	19,44	3,35	15,88	2,76	13,88	2,42	21,09	2,54	21,40	3,36	23,00	5,34
LP-28 4.1.9.12	31,70	5,67	28,11	4,97	24,82	4,37	20,89	3,29	17,09	2,72	14,98	2,40	22,91	2,49	22,91	3,24	23,00	5,34
LP-32 4.1.9.13	36,22	5,46	32,22	4,78	28,58	4,19	24,06	3,14	19,74	2,61	17,32	2,31	26,23	2,37	23,86	3,15	23,00	5,34
LP-35 4.1.9.14	39,42	5,28	35,00	4,65	31,14	4,10	26,27	3,09	21,56	2,56	18,97	2,27	28,61	2,30	23,86	3,15	23,00	5,34

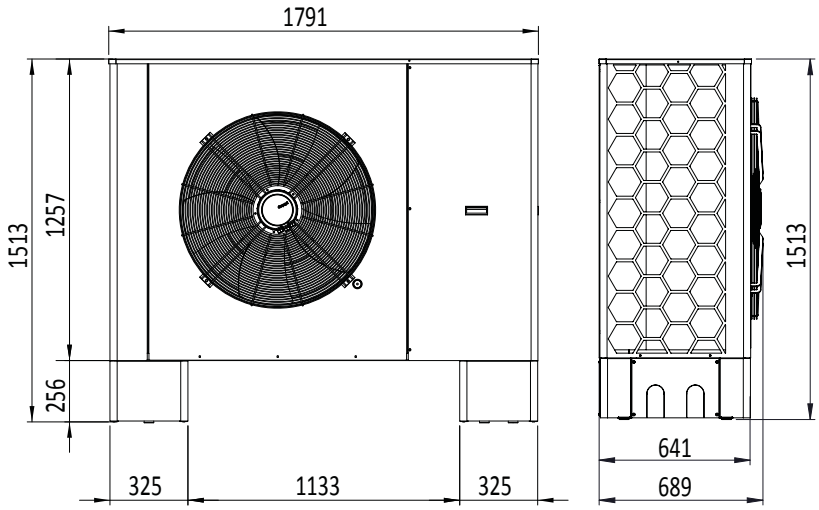
KITA LP

High-efficiency reversible air-to-water

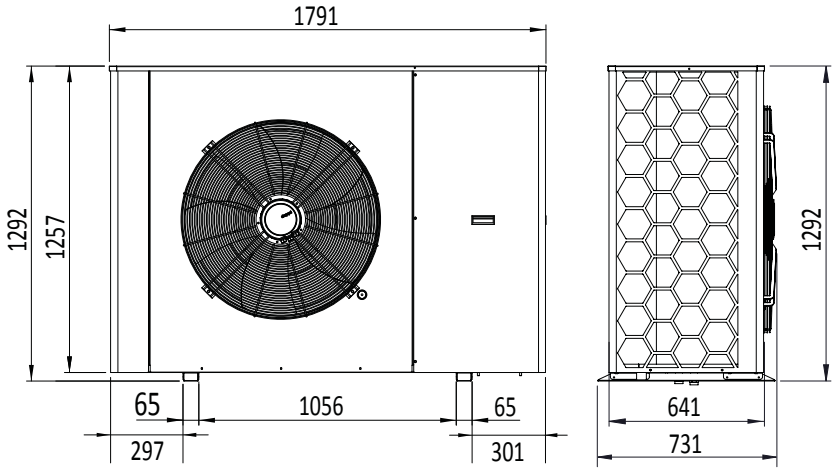
TECHNICAL DATA

Energy class:	A+++
Noise level:	Max sound pressure at 1 meter distance: LP 22 62 dB (A)* LP 26,28,32,35: 61 dB (A)*
Compressor:	Inverter Scroll
External fan:	BLDC type
SCOP average climate (low temperature application 35 °C)	5,18 (LP-22) - 5,51 (LP-26) 5,46 (LP-28) - 5,22 (LP-32) 5,20 (LP-35)
SCOP average climate (medium temperature application 55 °C)	3,94 (LP-22) - 4,15 (LP-26) 4,14 (LP-28) - 4,00 (LP-32) 4,03 (LP-35)
SEER Cooling mode - fan coil application	5,36 (LP-22) - 6,55 (LP-26) 3,27 (LP-28) - 5,93 (LP-32) 5,93 (LP-35)
SEER Cooling mode - cooling floor application	6,44 (LP-22) - 7,96 (LP-26) 7,96 (LP-28) - 7,96 (LP-32) 7,96 (LP-35)
Finned coil:	Fin spacing: 2,5 mm
Exchanger:	Type: Plates - Material: stainless steel
Refrigerant:	R290A
Diameter of water pipes:	Input; 1" - Output: 1"
Hydraulic circuit:	Pump type: EC
Dimensions:	1257 mm (H) x 1791 mm (L) x 641 mm (P)
Weight:	280 Kg

DIMENSIONS WITH BRACKETS



DIMENSIONS WITH LEGS



*The declared dB(A) values are obtained with the flow grid and silence kit installed

R 290 | KITA LP

Code	Description	Note	
4.1.9.10	Outdoor unit KITA-LP-22 WITH SEP., 3Ph, vers. MONOBLOCK R290		
4.1.9.11	Outdoor unit KITA-LP-26 WITH SEP., 3Ph, vers. MONOBLOCK R290		
4.1.9.12	Outdoor unit KITA-LP-28 WITH SEP., 3Ph, vers. MONOBLOCK R290		
4.1.9.13	Outdoor unit KITA-LP-32 WITH SEP., 3Ph, vers. MONOBLOCK R290		
4.1.9.14	Outdoor unit KITA-LP-35 WITH SEP., 3Ph, vers. MONOBLOCK R290		

Obligatory accessory to be chosen from the options - Outdoor Unit:

Code	Description	Note	
4.5.1.3	Support brackets for outdoor unit	To be used with 2.1.3.2 or 2.1.3.3	
4.5.1.4	Metal legs for outdoor unit		

Obligatory Accessory - Controller:

Code	Description	Note	
4.5.3.2	7'' Touch Panel		
4.5.3.16	9,7'' Touch Panel	Alternative to 4.5.3.2	

Obligatory Accessory - Frame:

Code	Description	Note	
1.1.1.1.102	Flush-mounted frame for 7'' touch panel		
1.1.2.1.50	External wall-mounted metal frame for 7'' touch panel	Alternative to the 1.1.1.1.102 wall-mounted frame	
4.5.1.14	Flush-mounted frame for 9.7'' touch panel		

Obligatory Accessories:

Code	Description	Note	
4.5.3.18	T-split board kit	Board for digital communication between indoor and outdoor units	

Obligatory Accessories to choose from the options:

Code	Description	Note	
EL.CV_ETH10	Ethernet cable, 10 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH20	Ethernet cable, 20 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH30	Ethernet cable, 30 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH50	Ethernet cable, 50 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	

Hydraulic options:

Code	Description	Note	
4.5.4.1	3-WAY valve kit (body + motor in actuator)		
SN.NTCWP3M	Temperature sensor NTC IP68 WH.	3 m	

4.5.4.3	UPM XL GEO oversize circulator kit per KITA L33	Alternative to the standard circulator	
2.4.3.2	Flexible joint kit with 1"1/2 F nozzles	2 pieces	
K-FY	Brass 2" Y-filter with 1 1/4" connections		
2.4.2.5	Antifreeze valve with brass body 1" 1/2		

Electric options:

Code	Description	Note	
2.5.7.1	HCC, 100m roll of cable 2x0.50mmq for MODBUS connection	Modbus cable to connect the machine to the HCC (controller)	
4.5.2.8	HCC, Power kit - pair of 200m coils (red+black) 1mmq cable		
4.5.2.7	9kW Auxiliary Heater Kit	Heating element for supply pipe. To be installed separately.	
K.RSC	Condensate drain pipe heater		
EL.CV_IM10	System and B2-B3 Buffer tank cable, length 10mt	Cable connecting the machine to the buffer probes	
4.5.2.10	Dual power supply 24A control panel		

Electronic options:

Code	Description	Note	
BMS BOARD	Electronic board for additional serial port		
4.5.3.3	Floor board	A BMS board is required one per machine	
4.5.3.4	C-Mix board	A BMS board is required one per machine	
4.5.3.10	Modbus Dehumidification board, for DIN rail	Obligatory with the purchase BMS BOARD one per machine and at least one of: 4.5.3.20/4.5.3.19/4.5.3.5/6	
4.5.3.11	T-meter: Immersion probe module	Pool thermostat - A BMS board is required one per machine	
4.5.3.12	3-way auxiliary valve Modbus board for DIN rail	A BMS board is required one per machine	
4.5.3.14	Modbus Integration and anti-legionella board, for DIN rail	A BMS board is required one per machine	
4.5.3.27	T-Hybrid board - Module for managing the hybrid boiler + PDC configuration	A BMS board is required one per machine	
4.5.3.28	T-Fan module VS/SS	Obligatory with the purchase BMS BOARD one per machine and at least one 4.5.35/6 and 4.5.3.19/20	
4.5.3.29	C-Mix Compact board	A BMS board is required one per machine	

Add-ons:

Code	Description	Note	
4.5.3.5*	Room temperature and humidity sensor - Black	Obligatory as an alternative to codes. 4.5.3.20/4.5.3.19/4.5.3.6	
4.5.3.6*	Room temperature and humidity sensor - White	Obligatory as an alternative to codes 4.5.3.20/4.5.3.19/4.5.3.5	
4.5.3.20*	DOME temperature and humidity sensor- Black	Obligatory as an alternative to codes4.5.3.5/4.5.3.6/4.5.3.19	
4.5.3.19*	DOME temperature and humidity sensor - White	Obligatory as an alternative to codes4.5.3.5/4.5.3.6/4.5.3.20	
4.5.2.11	XS R290 dual power supply electrical panel		

*A BMS BOARD IS REQUIRED

Optional:

Code	Description	Note	
VE.800FG	Fan flow grid d. 800		
VE.910FG	Fan flow grid d.910		
4.5.5.1	Fan surcharge d.910		
4.5.6.2	SILENCE KIT surcharge for outdoor unit	Alternative to standard insulation	
2.1.3.2	Pair of 1200x700 mm wall brackets for outdoor unit		
2.7.6.10	Anti-vibration M10 x 28 Ø 50x30 mm Male Male	4 pieces	
2.1.3.3	BASE SBR floor supports, dimensions L250xH95xP130	Obligatory with brackets 4.5.1.3	
4.5.1.9	Outdoor unit coil protection grid	Protection grid	
4.5.5.2	AXITOP diffuser d. 910		
4.5.5.3	AXITOP diffuser d. 800		

TEMPLARI
THE HEAT PUMP

NATURAL REFRIGERANT ECO FRIENDLY
R-290

RESIDENTIAL

KITA LP Plus

High-efficiency reversible air-to-water

Technology
Made in Italy

KITA LP Plus

High-efficiency reversible air-to-water

High efficiency air-water reversible monoblock LP/Plus series heat pumps, with Inverter Scroll compressor.

Full-Inverter operation: adapts the machine to the precise heat load requirements of the home, with savings over 30%.

Ideal for domestic hot water production up to 65°C.

KITA heat pumps are designed in Italy and integrate perfectly into both modern and classic buildings.

First-class electronics ensure total control over the operation of the machine, even remotely.

Kita is environmentally friendly as it doesn't rely on fossil fuels, providing heating and air conditioning without the need for an auxiliary boiler.

NATURAL REFRIGERANT ECO FRIENDLY

R-290

Advantages:

- A+++ Energy class
- Heating
- Cooling
- Domestic Hot Water
- Made in Italy — Italian technology
- Photovoltaic integration
- Villas
- Condos
- Remote monitoring
- Easy to install
- Front ventilation

CE

025

ICIM CERTIFIED PRODUCT

K-TOUCH remote control panel

KITA LP PLUS/R290

MODEL	Heating												DHW		Cooling			
	A 12°C / W 35° C		A 7°C / W 35° C		A 2°C / W 35° C		A -7°C / W 35° C		A -15°C / W 35° C		A -20°C / W 35° C		A 2°C / W 65° C		A35°C / W 7° C		A35°C / W 18° C	
	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qc kW	EER	Qc kW	EER
LP PLUS 35 4.1.10.6	39,55	5,72	35,00	4,92	30,65	4,28	25,60	3,19	20,56	2,61	17,96	2,33	27,68	2,48	27,83	3,22	38,08	4,30
LP PLUS 40 4.1.10.5	45,62	5,44	40,00	4,72	35,35	4,07	29,34	3,04	23,72	2,52	20,73	2,26	31,93	2,35	31,38	2,95	38,08	4,30

KITA LP Plus

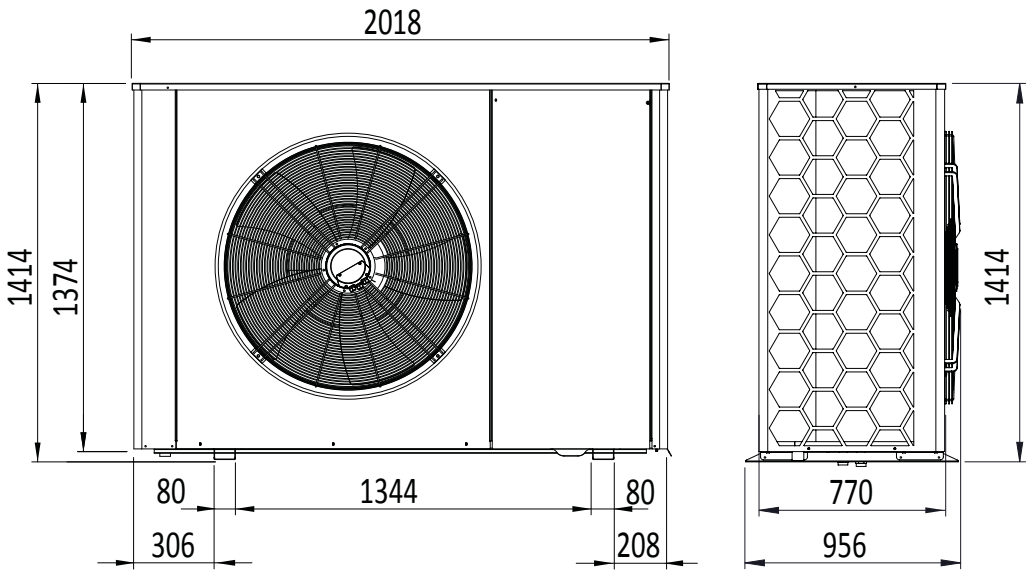
High-efficiency reversible air-to-water

TECHNICAL DATA

Energy class:	A+++
Power supply:	400 V - 3 ph - 50Hz
Max electrical absorption A-20/W55:	15 kW
Noise level:	Max sound pressure at 1 meter distance: 61 dB(A)*
Compressor:	Inverter Scroll
External fan:	Inverter typology: BLDC Nominal diameter: 910 mm Max Speed: 610 rpm
SCOP average climate (low temperature application 35 °C)	5,71 (LP Plus 35) 5,55 (LP Plus 40)
SCOP average climate (medium temperature application 55 °C)	4,17 (LP Plus 35) 4,14 (LP Plus 40)

SEER Cooling mode - fan coil application	5,59 (LP Plus 35) 5,54 (LP Plus 40)
SEER Cooling mode - cooling floor application	7,90 (LP Plus 35) 7,90 (LP Plus 40)
Finned coil:	Fin spacing: 2,5 mm
Exchanger:	Type: Plates Material: stainless steel
Refrigerant:	R290
Diameter of water pipes:	Input; 1" 1/2 Output: 1" 1/2
Hydraulic circuit:	Pump type: EC
Dimensions:	1414 mm (H) x 2018 mm (L) x 956 mm (P)
Weight:	320 Kg

DIMENSIONS WITH BRACKETS



*The declared dB(A) values are obtained with the flow grid and silence kit installed

RESIDENTIAL

R 290 | KITA LP Plus

Code	Description	Note	
4.1.10.6	Outdoor unit KITA-LP Plus-35, 3Ph, vers. MONOBLOCK R290		
4.1.10.5	Outdoor unit KITA-LP Plus-40, 3Ph, vers. MONOBLOCK R290		

Obligatory Accessory - Controller:

Code	Description	Note	
4.5.3.2	7" Touch Panel		
4.5.3.16	9,7" Touch Panel	Alternative to 4.5.3.2	

Obligatory Accessory - Frame:

Code	Description	Note	
1.1.1.1.102	Flush-mounted frame for 7" touch panel		
1.1.2.1.50	External wall-mounted metal frame for 7" touch panel	Alternative to the 1.1.1.1.102 wall-mounted frame	
4.5.1.14	Flush-mounted frame for 9.7" touch panel		

Obligatory Accessories:

Code	Description	Note	
4.5.3.18	T-split board kit	Board for digital communication between indoor and outdoor units	

Obligatory Accessories to choose from the options:

Code	Description	Note	
EL.CV_ETH10	Ethernet cable, 10 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH20	Ethernet cable, 20 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH30	Ethernet cable, 30 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH50	Ethernet cable, 50 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	

Obligatory Plumbing Accessories:

Code	Description	Note	
4.10.1.5	Kit Circulation pump YONOS PARA HF 30/12	Alternative to the standard circulator	
2.4.1.18	Kit Circulation pump Shinhoo GPA 32-17H Pro/180 (2")	Alternative to the standard circulator	

Hydraulic options:

Code	Description	Note	
4.5.4.1	3-WAY valve kit (body + motor in actuator)		
SN.NTCWP3M	Temperature sensor NTC IP68 WH.	3 m	

K-FY	Brass 2" Y-filter with 1 1/4" connections		
2.4.2.5	Antifreeze valve with brass body 1" 1/2		

R 290 | KITA LP Plus

Electric options:

Code	Description	Note	
2.5.7.1	HCC, 100m roll of cable 2x0.50mmq for MODBUS connection	Modbus cable to connect the machine to the HCC (controller)	
4.5.2.8	HCC, Power kit - pair of 200m coils (red+black) 1mmq cable		
4.5.2.7	9kW Auxiliary Heater Kit	Heating element for supply pipe. To be installed separately.	
K.RSC	Condensate drain pipe heater		
EL.CV_IM10	System and B2-B3 Buffer tank cable, length 10mt	Cable connecting the machine to the buffer probes	
4.5.2.10	Dual power supply 24A control panel		

Electronic options:

Code	Description	Note	
BMS BOARD	Electronic board for additional serial port		
4.5.3.3	Floor board	A BMS board is required one per machine	
4.5.3.4	C-Mix board	A BMS board is required one per machine	
4.5.3.10	Modbus Dehumidification board, for DIN rail	Obligatory with the purchase BMS BOARD one per machine and at least one of: 4.5.3.20/4.5.3.19/4.5.3.5/6	
4.5.3.11	T-meter: Immersion probe module	Pool thermostat - A BMS board is required one per machine	
4.5.3.12	3-way auxiliary valve Modbus board for DIN rail	A BMS board is required one per machine	
4.5.3.14	Modbus Integration and anti-legionella board, for DIN rail	A BMS board is required one per machine	
4.5.3.27	T-Hybrid board - Module for managing the hybrid boiler + PDC configuration	A BMS board is required one per machine	
4.5.3.28	T-Fan module VS/SS	Obligatory with the purchase BMS BOARD one per machine and at least one 4.5.35/6 and 4.5.3.19/20	
4.5.3.29	C-Mix Compact board	A BMS board is required one per machine	

Add-ons:

Code	Description	Note	
4.5.3.5*	Room temperature and humidity sensor - Black	Obligatory as an alternative to codes. 4.5.3.20/4.5.3.19/4.5.3.6	
4.5.3.6*	Room temperature and humidity sensor - White	Obligatory as an alternative to codes 4.5.3.20/4.5.3.19/4.5.3.5	
4.5.3.20*	DOME temperature and humidity sensor- Black	Obligatory as an alternative to codes4.5.3.5/4.5.3.6/4.5.3.19	
4.5.3.19*	DOME temperature and humidity sensor - White	Obligatory as an alternative to codes4.5.3.5/4.5.3.6/4.5.3.20	
4.5.2.11	XS R290 dual power supply electrical panel		

*A BMS BOARD IS REQUIRED

Optional:

Code	Description	Note	
VE.910FG	Fan flow grid d.910		
4.5.1.11	Outdoor unit coil protection grid	Protection grid	
2.1.3.3	BASE SBR floor supports, dimensions L250xH95xP130		
4.5.5.2	AXITOP diffuser d. 910		

TEMPLARI
THE HEAT PUMP

ECO FRIENDLY REFRIGERANT
R-32

RESIDENTIAL

KITA LR

High-efficiency reversible air-to-water

Technology
Made in Italy

KITA LR

High-efficiency reversible air-to-water

LR series heat pumps monoblock with Smart Injection Inverter Scroll compressor.

Smart Injection system with steam-injection Inverter Scroll compressor to ensure operation with maximum efficiency at outdoor temperatures below -20°C.

Full-Inverter operation: adapts the machine to the precise heat load requirements of the home, with savings over 30%.

Ideal for domestic hot water production up to 55°C.

KITA heat pumps are designed in Italy and integrate perfectly into both modern and classic buildings.

First-class electronics ensure total control over the operation of the machine, even remotely.

Kita is environmentally friendly as it doesn't rely on fossil fuels, providing heating and air conditioning without the need for an auxiliary boiler.

ECO FRIENDLY REFRIGERANT R-32

K-TOUCH remote control panel

Advantages:

- A+++ Energy class
- Heating
- Cooling
- Domestic Hot Water
- Made in Italy — Italian technology
- Photovoltaic integration
- Villas
- Condos
- Remote monitoring
- Easy to install
- Front ventilation

CE

025

ICIM CERTIFIED PRODUCT

KITA LR35/R32

MODEL	Heating												DHW		Cooling			
	A 12°C / W 35° C		A 7°C / W 35° C		A 2°C / W 35° C		A -7°C / W 35° C		A -15°C / W 35° C		A -20°C / W 35° C		A 2°C / W 55° C		A35°C / W 7° C		A35°C / W 18° C	
	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qc kW	EER	Qc kW	EER
LR35 4.1.4.9	39,15	5,06	34,80	4,50	33,17	3,94	28,76	3,17	25,31	2,85	22,89	2,58	32,80	2,71	30,60	3,12	32,00	4,70
LR 35 Cold 4.1.4.10	39,31	5,20	35,42	4,62	36,34	3,93	33,11	3,10	27,70	2,65	24,93	2,42	35,51	3,12	30,09	3,39	32,00	5,03

KITA LR

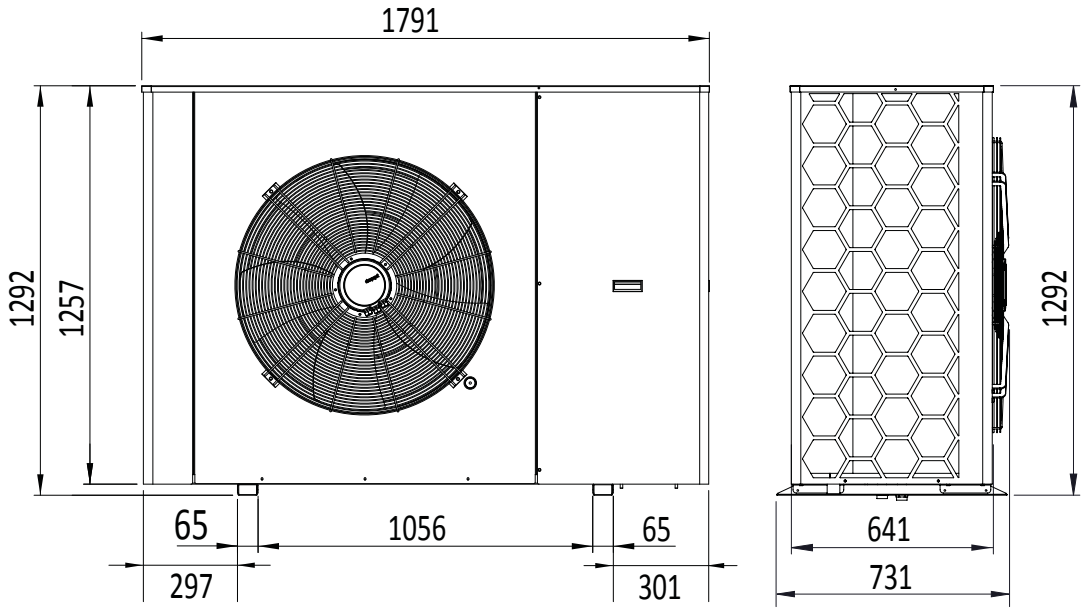
High-efficiency reversible air-to-water

TECHNICAL DATA

Energy class:	A+++
Power supply:	400 V - 3 ph - 50Hz
Max electrical absorption A-20/W55:	12,50 kW (LR 35) 20,00 kW (LR 35 Cold)
Noise level:	Max sound pressure at 1 meter distance: 61 dB(A)*
Compressor:	Scroll injection
External fan:	Inverter typology: BLDC Nominal diameter: 910 mm Max Speed: 610 rpm
SCOP average climate (medium temperature application 55 °C)	5,03 (LR 35) 4,81 (LR 35 Cold) 4,95 (LR PLUS)
SCOP average climate (medium temperature application 55 °C)	3,79 (LR 35) 3,78 (LR 35 Cold) 3,79 (LR PLUS)
Finned coil:	Fin spacing: 2,5 mm

SEER Cooling mode - fan coil application	5,94 (LR 35) 5,60 (LR 35 Cold) 5,23 (LR PLUS)
SEER Cooling mode - cooling floor application	8,03 (LR 35) 7,66 (LR 35 Cold) 7,62 (LR PLUS)
Exchanger:	Type: Plates Material: stainless steel
Refrigerant:	R32 Q.ty: 7 kg
Diameter of water pipes:	Input; 1" Output: 1"
Hydraulic circuit:	Pump type: EC
Dimensions:	1257 mm (H) x 1791 mm (L) x 641 mm (P)
Weight:	280 Kg

DIMENSIONS WITH BRACKETS



*The declared dB(A) values are obtained with the flow grid and silence kit installed

Code	Description	Note	
4.1.4.9	Outdoor unit KITA-LR 35, 3Ph, vers. MONOBLOCK		
4.1.4.10	Outdoor unit KITA-LR 35 Cold, 3Ph, vers. MONOBLOCK		

Obligatory accessory to be chosen from the options - Outdoor Unit:

Code	Description	Note	
4.5.1.3	Support brackets for outdoor unit	To be used with 2.1.3.2 or 2.1.3.3	
4.5.1.4	Metal legs for outdoor unit		

Obligatory Accessory - Controller:

Code	Description	Note	
4.5.3.2	7'' Touch Panel		
4.5.3.16	9,7'' Touch Panel	Alternative to 4.5.3.2	

Obligatory Accessory - Frame:

Code	Description	Note	
1.1.1.1.102	Flush-mounted frame for 7'' touch panel		
1.1.2.1.50	External wall-mounted metal frame for 7'' touch panel	Alternative to the 1.1.1.1.102 wall-mounted frame	
4.5.1.14	Flush-mounted frame for 9.7'' touch panel		

Obligatory Accessories

Code	Description	Note	
4.5.3.18	T-split board kit	Board for digital communication between indoor and outdoor units	

Obligatory Accessories to choose from the options:

Code	Description	Note	
EL.CV_ETH10	Ethernet cable, 10 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH20	Ethernet cable, 20 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH30	Ethernet cable, 30 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH50	Ethernet cable, 50 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	

Hydraulic options:

Code	Description	Note	
4.5.4.1	3-WAY valve kit (body + motor in actuator)		
SN.NTCWP3M	Temperature sensor NTC IP68 WH.	3 m	

4.5.4.3	UPM XL GEO oversize circulator kit per KITA L33	Alternative to the standard circulator	
2.4.3.2	Flexible joint kit with 1"1/2 F nozzles	2 pieces	
K-FY	Brass 2" Y-filter with 1 1/4" connections		
2.4.2.5	Antifreeze valve with brass body 1" 1/2		

Electric options:

Code	Description	Note	
2.5.7.1	HCC, 100m roll of cable 2x0.50mmq for MODBUS connection	Modbus cable to connect the machine to the HCC (controller)	
4.5.2.8	HCC, Power kit - pair of 200m coils (red+black) 1mmq cable		
4.5.2.7	9kW Auxiliary Heater Kit	Heating element for supply pipe. To be installed separately.	
K.RSC	Condensate drain pipe heater		
EL.CV_IM10	System and B2-B3 Buffer tank cable, length 10mt	Cable connecting the machine to the Buffer tank probes	
4.5.2.10	Dual power supply 24A control panel		

Electronic options:

Code	Description	Note	
BMS BOARD	Electronic board for additional serial port		
4.5.3.3	Floor board	A BMS board is required one per machine	
4.5.3.4	C-Mix board	A BMS board is required one per machine	
4.5.3.10	Modbus Dehumidification board, for DIN rail	Obligatory with the purchase BMS BOARD one per machine and at least one of: 4.5.3.20/4.5.3.19/4.5.3.5/6	
4.5.3.11	T-meter: Immersion probe module	Pool thermostat - A BMS board is required one per machine	
4.5.3.12	3-way auxiliary valve Modbus board for DIN rail	A BMS board is required one per machine	
4.5.3.14	Modbus Integration and anti-legionella board, for DIN rail	A BMS board is required one per machine	
4.5.3.27	T-Hybrid board - Module for managing the hybrid boiler + PDC configuration	A BMS board is required one per machine	
4.5.3.28	T-Fan module VS/SS	Obligatory with the purchase BMS BOARD one per machine and at least one 4.5.35/6 and 4.5.3.19/20	
4.5.3.29	C-Mix Compact board	A BMS board is required one per machine	

Add-ons:

Code	Description	Note	
4.5.3.5*	Room temperature and humidity sensor - Black	Obligatory as an alternative to codes. 4.5.3.20/4.5.3.19/4.5.3.6	
4.5.3.6*	Room temperature and humidity sensor - White	Obligatory as an alternative to codes 4.5.3.20/4.5.3.19/4.5.3.5	
4.5.3.20*	DOME temperature and humidity sensor- Black	Obligatory as an alternative to codes4.5.3.5/4.5.3.6/4.5.3.19	
4.5.3.19*	DOME temperature and humidity sensor - White	Obligatory as an alternative to codes4.5.3.5/4.5.3.6/4.5.3.20	
4.5.2.11	XS R290 dual power supply electrical panel		

*A BMS BOARD IS REQUIRED

Optional:

Code	Description	Note	
VE.800FG	Fan flow grid d. 800		
VE.910FG	Fan flow grid d.910		
4.5.5.1	Fan surcharge d.910		
4.5.6.2	SILENCE KIT surcharge for outdoor unit	Alternative to standard insulation	
2.1.3.2	Pair of 1200x700 mm wall brackets for outdoor unit		
2.7.6.10	Anti-vibration M10 x 28 Ø 50x30 mm Male Male	4 pieces	
2.1.3.3	BASE SBR floor supports, dimensions L250xH95xP130	Obligatory with brackets 4.5.1.3	
4.5.1.9	Outdoor unit coil protection grid	Protection grid	
4.5.5.2	AXITOP diffuser d. 910		
4.5.5.3	AXITOP diffuser d. 800		

KITA LR Plus

High-efficiency reversible air-to-water

LR series heat pumps monoblock with Smart Injection Inverter Scroll compressor.

Smart Injection system with steam-injection Inverter Scroll compressor to ensure operation with maximum efficiency at outdoor temperatures below -20°C.

Full-Inverter operation: adapts the machine to the precise heat load requirements of the home, with savings over 30%.

Ideal for domestic hot water production up to 55°C.

KITA heat pumps are designed in Italy and integrate perfectly into both modern and classic buildings.

First-class electronics ensure total control over the operation of the machine, even remotely.

Kita is environmentally friendly as it doesn't rely on fossil fuels, providing heating and air conditioning without the need for an auxiliary boiler.

ECO FRIENDLY REFRIGERANT R-32

K-TOUCH remote control panel

Advantages:

- A+++ Energy class
- Heating
- Cooling
- Domestic Hot Water
- Made in Italy — Italian technology
- Photovoltaic integration
- Villas
- Condos
- Remote monitoring
- Easy to install
- Front ventilation

CE 025 ICIM CERTIFIED PRODUCT

KITA LR-PLUS/R32

MODEL	Heating												DHW		Cooling			
	A 12°C / W 35° C		A 7°C / W 35° C		A 2°C / W 35° C		A -7°C / W 35° C		A -15°C / W 35° C		A -20°C / W 35° C		A 2°C / W 55° C		A35°C / W 7° C		A35°C / W 18° C	
	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qh kW	COP	Qc kW	EER	Qc kW	EER
LR Plus 4.1.5.3	51,00	5,02	48,67	4,58	45,59	4,01	41,95	3,37	34,69	2,83	31,05	2,53	42,55	2,43	38,00	2,47	39,00	4,12

KITA LR Plus

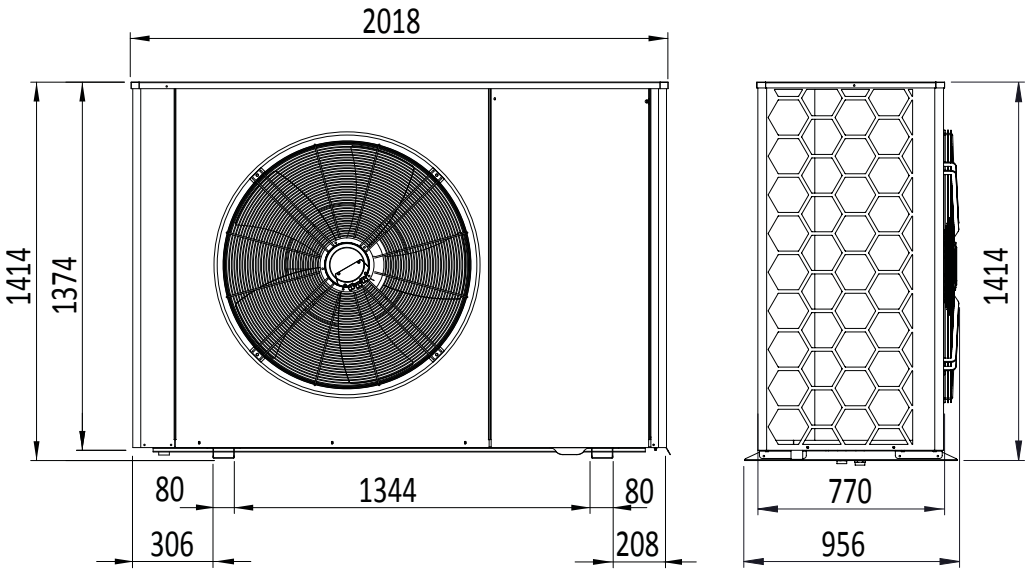
High-efficiency reversible air-to-water

TECHNICAL DATA

Energy class:	A+++
Power supply:	400 V - 3 ph - 50Hz
Max electrical absorption A-20/W55:	20,00 kW (LR PLUS)
Noise level:	Max sound pressure at 1 meter distance: 61 dB(A)*
Compressor:	Scroll injection
External fan:	Inverter typology: BLDC Nominal diameter: 910 mm Max Speed: 610 rpm
Finned coil:	Fin spacing: 2,5 mm
SCOP average climate (medium temperature application 55 °C)	4,95 (LR PLUS)
SCOP average climate (medium temperature application 55 °C)	3,79 (LR PLUS)

SEER Cooling mode - fan coil application	5,23 (LR PLUS)
SEER Cooling mode - cooling floor application	7,62 (LR PLUS)
Exchanger:	Type: Plates Material: stainless steel
Refrigerant:	R32 Q.ty: 7,4 kg
Diameter of water pipes:	Input; 1" Output: 1"
Hydraulic circuit:	Pump type: EC
Dimensions:	1414 mm (H) x 2018 mm (L) x 956 mm (P)
Weight:	320 Kg

DIMENSIONS WITH BRACKETS



*The declared dB(A) values are obtained with the flow grid and silence kit installed

Code	Description	Note	
4.1.5.3	Outdoor unit KITA-LR Plus, 3Ph, vers. MONOBLOCK		

Obligatory Accessory - Controller:

Code	Description	Note	
4.5.3.2	7'' Touch Panel		
4.5.3.16	9,7'' Touch Panel	Alternative to 4.5.3.2	

Obligatory Accessory - Frame:

Code	Description	Note	
1.1.1.1.102	Flush-mounted frame for 7'' touch panel		
1.1.2.1.50	External wall-mounted metal frame for 7'' touch panel	Alternative to the 1.1.1.1.102 wall-mounted frame	
4.5.1.14	Flush-mounted frame for 9.7'' touch panel		

Obligatory Accessories:

Code	Description	Note	
4.5.3.18	T-split board kit	Board for digital communication between indoor and outdoor units	

Obligatory Accessories to choose from the options:

Code	Description	Note	
EL.CV_ETH10	Ethernet cable, 10 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH20	Ethernet cable, 20 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH30	Ethernet cable, 30 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	
EL.CV_ETH50	Ethernet cable, 50 meters long	Required with code 4.5.3.18 including of:Cable + 2x RJ45 plugs	

Hydraulic options:

Code	Description	Note	
4.5.4.1	3-WAY valve kit (body + motor in actuator)		
SN.NTCWP3M	Temperature sensor NTC IP68 WH.	3 m	

K-FY	Brass 2" Y-filter with 1 1/4" connections		
2.4.2.5	Antifreeze valve with brass body 1" 1/2		
2.4.3.2	Flexible joint kit with 1"1/2 F nozzles	2 pieces	

Obligatory Plumbing Accessories:

Code	Description	Note	
4.10.1.5	Kit Circulation pump YONOS PARA HF 30/12	Alternative to the standard circulator	
2.4.1.18	Kit Circulation pump Shinhoo GPA 32-17H Pro/180 (2'')	Alternative to the standard circulator	

Electric options:

Code	Description	Note	
2.5.7.1	HCC, 100m roll of cable 2x0.50mmq for MODBUS connection	Modbus cable to connect the machine to the HCC (controller)	
4.5.2.8	HCC, Power kit - pair of 200m coils (red+black) 1mmq cable		
4.5.2.7	9kW Auxiliary Heater Kit	Heating element for supply pipe. To be installed separately.	
K.RSC	Condensate drain pipe heater		
EL.CV_IM10	System and B2-B3 Buffer tank cable, length 10mt	Cable connecting the machine to the Buffer tank probes	
4.5.2.10	Dual power supply 24A control panel		

Electronic options:

Code	Description	Note	
BMS BOARD	Electronic board for additional serial port		
4.5.3.3	Floor board	A BMS board is required one per machine	
4.5.3.4	C-Mix board	A BMS board is required one per machine	
4.5.3.10	Modbus Dehumidification board, for DIN rail	Obligatory with the purchase BMS BOARD one per machine and at least one of: 4.5.3.20/4.5.3.19/4.5.3.5/6	
4.5.3.11	T-meter: Immersion probe module	Pool thermostat - A BMS board is required one per machine	
4.5.3.12	3-way auxiliary valve Modbus board for DIN rail	A BMS board is required one per machine	
4.5.3.14	Modbus Integration and anti-legionella board, for DIN rail	A BMS board is required one per machine	
4.5.3.27	T-Hybrid board - Module for managing the hybrid boiler + PDC configuration	A BMS board is required one per machine	
4.5.3.28	T-Fan module VS/SS	Obligatory with the purchase BMS BOARD one per machine and at least one 4.5.35/6 and 4.5.3.19/20	
4.5.3.29	C-Mix Compact board	A BMS board is required one per machine	

Add-ons:

Code	Description	Note	
4.5.3.5*	Room temperature and humidity sensor - Black	Obligatory as an alternative to codes. 4.5.3.20/4.5.3.19/4.5.3.6	
4.5.3.6*	Room temperature and humidity sensor - White	Obligatory as an alternative to codes 4.5.3.20/4.5.3.19/4.5.3.5	
4.5.3.20*	DOME temperature and humidity sensor- Black	Obligatory as an alternative to codes4.5.3.5/4.5.3.6/4.5.3.19	
4.5.3.19*	DOME temperature and humidity sensor - White	Obligatory as an alternative to codes4.5.3.5/4.5.3.6/4.5.3.20	

*A BMS BOARD IS REQUIRED

Optional:

Code	Description	Note	
VE.910FG	Fan flow grid d.910		
2.1.3.3	BASE SBR floor supports, dimensions L250xH95xP130	Obligatory with brackets 4.5.1.3	
4.5.1.11	Outdoor unit coil protection grid	Protection grid	
4.5.5.2	AXITOP diffuser d. 910		

ACCESORIES

TEMPLARI
THE HEAT PUMP

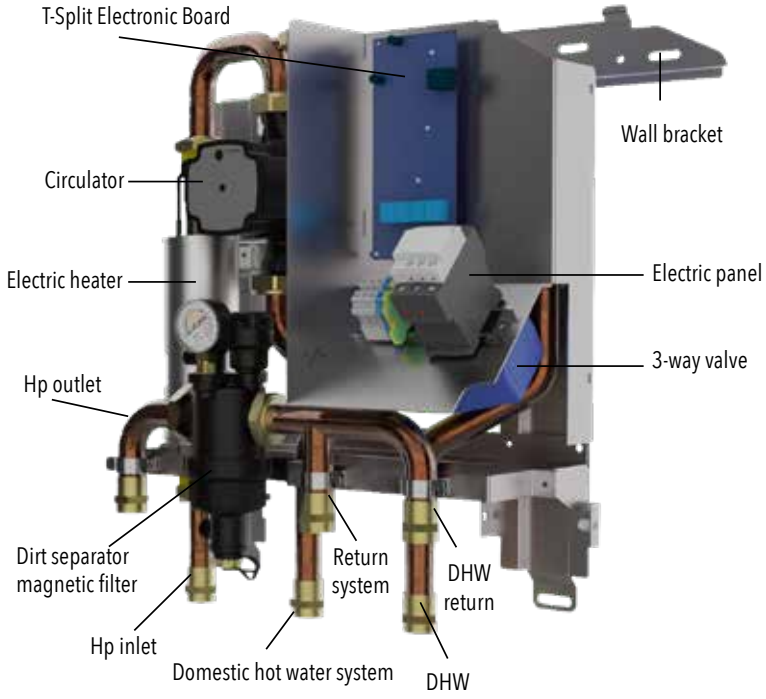
Hydrobox - Electrical box

Hydrobox

Hydrobox
+Electrical Box

Electrical box

Hydrobox Full Example



The Hydrobox is an indoor hydronic module characterized by its elegant and functional design.

Hydrobox Direct version

The Direct version includes a circulator, a dirt separator. Magnetic filter and an electronic board, with the possibility of adding an optional electric heater.

Hydrobox Basic version

The Basic version includes a circulator, a dirt separator. Magnetic filter a 3-way valve and an electronic board, with the possibility, of adding an optional electric heater.

Hydrobox Full version

The Full version includes a circulator, a dirt separator magnetic filter, and two 3-way valves: one working on the hydraulic system/sanitary and the other working on the sanitary pre-heating, and an electronic board, with the possibility of adding an optional electric heater.

Electrical box

The Electrical Box is a versatile and secure solution for storing the accessory part of your system. Designed to offer optimal and tidy management of electrical and electronic elements. The box is available in two versions: single or integrated into the Hydrobox.

Single version:

This version accommodates electrical and electronic components that can be installed on a DIN rail, for a maximum capacity of 36 DIN modules, offering ample space for wiring and protection of electronic components. The T-Split module is already present inside.

Version with Integrated Hydrobox:

With this configuration, the box is combined with the Hydrobox and allows the housing of electrical and electronic components that can be installed on DIN rails, for a maximum capacity of 48 DIN modules, providing protection and ease of installation for complex systems. the T-Split module is installed inside the Hydrobox. Both versions are designed to offer maximum safety, convenience and ease of installation, adapting perfectly to the different requirements of your electrical and temperature control systems.

Hydrobox - choose from the options:

Code	Description	
4.8.1.25	Hydrobox Direct version	
4.8.1.1	Hydrobox Basic version	
4.8.1.2	Hydrobox Full version	

Front aesthetic cover to choose from the options:

Code	Description	Note	
4.5.1.22	HYDROBOX COVER WITHOUT TOUCH PANEL		
4.5.1.23	HYDROBOX COVER WITH TOUCH PANEL	Obligatory with code 4.5.3.45	

Optional accessories for Hydrobox:

Code	Description	Note	
4.5.4.13	KIT CILINDRICAL RESISTANCE 3 kW - HYDROBOX		
4.5.4.14	KIT CILINDRICAL RESISTANCE 6 kW - HYDROBOX		
4.5.4.15	KIT CILINDRICAL RESISTANCE 9 kW - HYDROBOX		

Electrical Box

Code	Description	Note	
4.5.3.45	ELECTRICAL BOX FOR HYDROBOX	Obligatory with code 4.5.3.34 (with 24 + 24 slots available for accessory boards)	
4.5.3.46	ELECTRICAL BOX	Obligatory with code 4.5.3.34 (Sold separately, with 12 + 24 available slots (12 slots are used by the T-SPLIT board)	
4.5.3.34	7'' Touch Panel for mono technical cabinet/hydrobox		

Electronic Options for Electrical Box:

Code	Description	Note	
4.5.3.43	C-MIX BOARD FOR HYDROBOX WITH CABLES - 12M	Covers 12 slot of the electrical box	
4.5.3.44	FLOOR BOARD FOR HYDROBOX WITH CABLES - 12M	Covers 12 slot of the electrical box	
4.5.3.37	T-SPLIT BOARD FOR HYDROBOX WITH CABLES - 12M	Covers 12 slot of the electrical box	
4.5.3.38	C-MIX COMPACT BOARD FOR HYDROBOX WITH CABLES - 5M	Covers 5 slot of the electrical box	
4.5.3.39	DEHUMIDIFIER BOARD FOR HYDROBOX WITH CABLES - 3M	Covers 3 slot of the electrical box	
4.5.3.40	RESISTANCE INTEGRATION BOARD FOR HYDROBOX WITH CABLES - 3M	Covers 3 slot of the electrical box	
4.5.3.41	T-HYBRID BOARD FOR HYDROBOX WITH CABLES - 3M	Covers 3 slot of the electrical box	
4.5.3.42	T-FAN BOARD FOR HYDROBOX WITH CABLES – 5M	Covers 5 slot of the electrical box	
4.5.3.47	T-METER BOARD FOR HYDROBOX WITH CABLES - 3M	Covers 3 slot of the electrical box	

REMOTE CONTROL

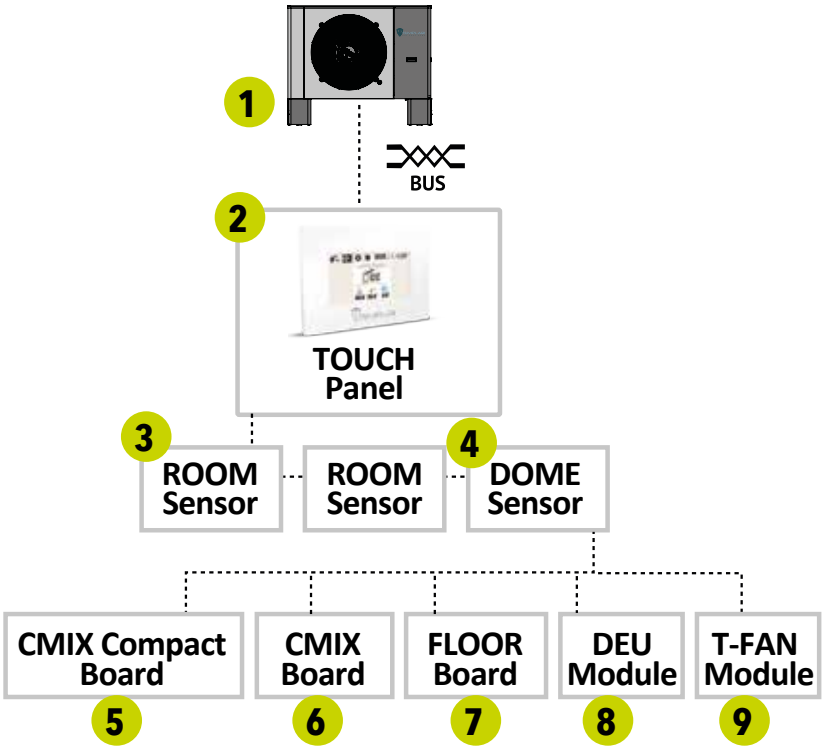
TEMPLARI

THE HEAT PUMP

REMOTE CONTROL

HCC comfort management

The HCC (House Climate Control) system enables management of the KITA heat pump via MODBUS and integrates it with the building's heating system. With additional accessories, a single panel can manage heating, cooling, dehumidification and the production of domestic hot water, as well as control the temperature and humidity of spaces and manage booster pumps, mixing and zone valves. The system can be customised according to the type of the building's system: up to 3 circuits with different flow temperatures and up to 12 independent spaces.
The accessories are: touchscreen panel, I/O floor board, room temperature and humidity sensors. 7" HCC panel dim. W238xH175xD51 mm.



HCC system

Comfort management in just a few Touches! For precise and efficient control of our heat pumps, we have developed HOUSE CLIMATE CONTROL (HCC), a management software capable of optimizing the performance of the heat pump, guaranteeing optimal living comfort. The software also allows remote supervision of the entire system.

3 ROOM Sensor

Temperature and humidity sensor that communicates via MODBUS with the touch panel.
In addition to displaying environmental information, it can be used to adjust the setpoint of the individual room.
Available in white or black.

4 DOME Sensor

It is a room sensor capable of measuring the temperature and humidity of the surrounding environment and calculating the dew point.
Available in white or black.

5 C-MIX Compact Board

Capable of managing a secondary circuits, a direct one or mixed one, acquiring the room request by closing the relative digital enabling inputs (DRY CONTACT ROOM THERMOSTAT), or from the associated Room and Dome sensors;
associato

6 C-MIX Board

Capable of managing up to two secondary circuits, a direct one and a mixed one, acquiring the room request by closing the relative digital enabling inputs (DRY CONTACT ROOM THERMOSTAT), or from the associated Room and Dome sensors;

7 FLOOR Board

Electronic board that controls the activation/deactivation of the system's devices via relays: on/off or modulating circulation pumps, zone valve actuators, on/off or modulating mixing valves, dehumidifiers, and hydronic fan coils.

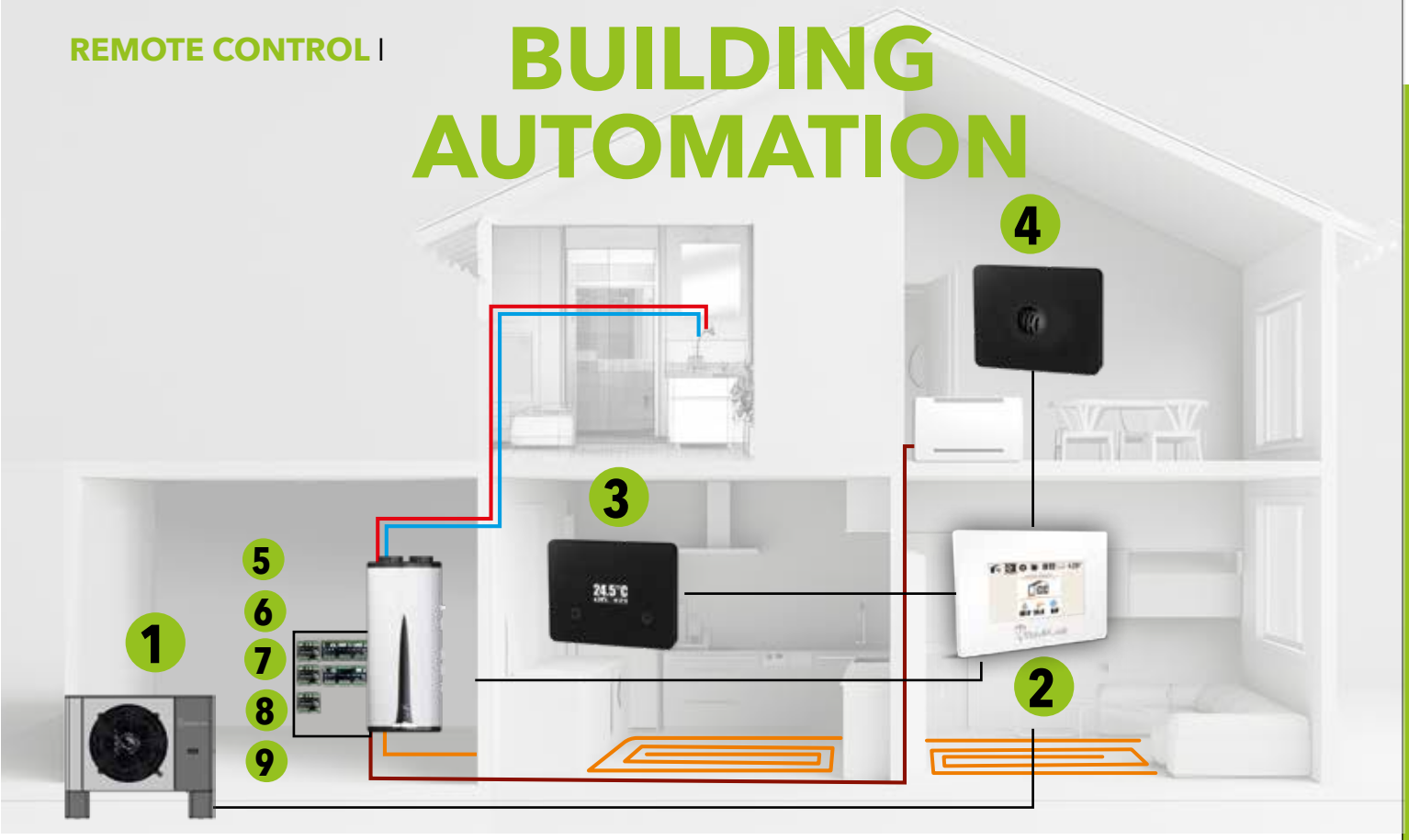
8 DEU Module

Dehumidification/humidification control module that manages the dehumidification coil of the mechanical ventilation system or a humidification system.

9 T-FAN Module

Controls a 0-10V or 3-speed fan coil unit based on the temperature measured by the associated Room or Dome sensor.

BUILDING AUTOMATION



Obligatory accessories - controller

N.B: the diagram is for illustrative purposes only.
For the connections, refer to the wiring diagram in our manual.

Obligatory accessories:

Code	Description	Note	
4.5.3.16	9,7" Touch Panel		
4.5.1.14	Flush-mounted frame for 9.7" touch panel		
BMS BOARD	Electronic board for additional serial port		
4.5.3.3	Floor board	A BMS board is required one per machine	
4.5.3.5*	Room temperature and humidity sensor Black	Obligatory as an alternative to the codes: 4.5.3.20/4.5.3.19/4.5.3.6	
4.5.3.6*	Room temperature and humidity sensor - White	Obligatory as an alternative to the codes:4.5.3.20/4.5.3.19/4.5.3.5	
4.5.3.20*	DOME temperature and humidity sensor - Black	Obligatory as an alternative to the codes:4.5.3.5/4.5.3.6/4.5.3.19	
4.5.3.19*	DOME temperature and humidity sensor - White	White Obligatory as an alternative to the codes:4.5.3.5/4.5.3.6/4.5.3.20	
2.5.7.1	HCC, 100 m cable coil 2x0.50 sq mm for MODBUS connection	Modbus cable to connect the machine to the HCC (controller)	

* A BMS BOARD IS REQUIRED

Optional accessories:

Code	Description	Note	
4.5.3.4	C-Mix board	A BMS board is required one per machine	
4.5.3.9	0-10 slave control board for DIN rail		
4.5.3.10	Dehumidifier Modbus board for DIN rail	A BMS board is required one per machine	
4.5.3.11	T-meter: Immersion probe module	A BMS board is required one per machine	
4.5.3.12	3-way auxiliary valve Modbus board for DIN rail	A BMS board is required one per machine	

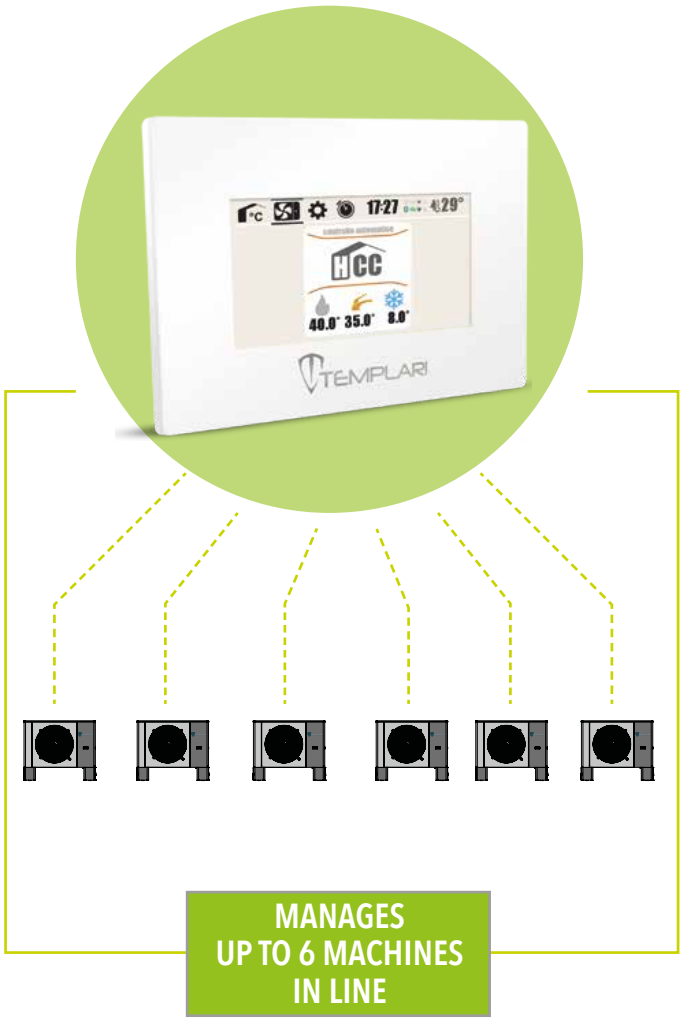
Controlling multiple units remotely

Multikita comfort management

Multikita

The Multikita system is the solution developed by Templari to monitor and integrate the power of several heat pumps in a single system, such as in commercial buildings and apartment blocks. By using a convenient 7" touch panel with simple, intuitive graphics you can manage and control up to six Kita units.
Using the probes installed on the first heat pump and thanks to its operating logic, the software calculates the system's demand and distributes it to all heat pumps while also managing domestic hot water (if any).

The user only has to set a few parameters via the touchscreen, and Multikita takes care of the rest. With its user-friendly management interface, the desired parameters can be entered with just a few taps. To make management even more flexible, Templari offers the option to remotely control the system via computer/tablet/mobile devices.



Obbligatory Accessory - Controller:

Code	Description	Note	
4.5.3.7	7" Touch panel Multikita management module		

Obligatory Accessory - Frame:

Code	Description	Note	
1.1.1.1.102	Flush-mounted frame for 7" touch panel		
1.1.2.1.50	External wall-mounted metal frame for 7" touch panel	Alternative to the 1.1.1.1.102 wall-mounted frame	

Electric options:

Code	Description	Note	
2.5.7.1	HCC, 100 m cable coil 2x0.50 sq mm for MODBUS connection	Modbus cable to connect the machine to the HCC (controller)	
4.5.2.8	HCC, power supply kit - pair of 200 m cable coils (red+black) 1 sq mm		

Electronic options:

Code	Description	Note	
BMS BOARD	Electronic board for additional serial port	One board per machine	
4.5.3.4	C-Mix board	A BMS board is required one per machine	
4.5.3.12	3-way auxiliary valve Modbus board for DIN rail	A BMS board is required one per machine	
4.5.3.14	Modbus Integration and anti-legionella board, for DIN rail	A BMS board is required one per machine	
4.5.3.27	T-Hybrid board - Module for managing the hybrid boiler + PDC configuration	A BMS board is required one per machine	
4.5.3.29	C-Mix Compact board	A BMS board is required one per machine	

INDUSTRIAL AIR-TO-AIR HEAT PUMPS

TEMPLARI

THE HEAT PUMP

INDUSTRIAL AIR-TO-AIR HEAT PUMPS

INDUSTRIAL AIR/AIR SOLUTIONS

KITA AIR

AIR/AIR Version - INVERTER

Outdoor unit

DUCTED

SPLIT

External unit

KITA AIR

KITA AIR COLD

KITA AIR PLUS

ADVANTAGES

The Templari heat pumps of the KITA line are able to produce space heating and cooling.

The different lines of pumps offer the possibility of being able to choose the best solution according to one's needs, making the most of the performance of the chosen heat pump.

The KITA line is ideal for large industrial spaces such as warehouses, production areas, workshops and sheds of all kinds.

The KITA line can also be powered with electricity generated from a renewable source, creating energy savings by further reducing costs and the return on investment.

The technology of the KITA line allows, thanks to the use of the various devices integrated in the system, to be able to continuously monitor the correct functioning of the machine, with the possibility of being able to change parameters remotely according to one's needs.

KITA AIR

AIR/AIR Version - INVERTER

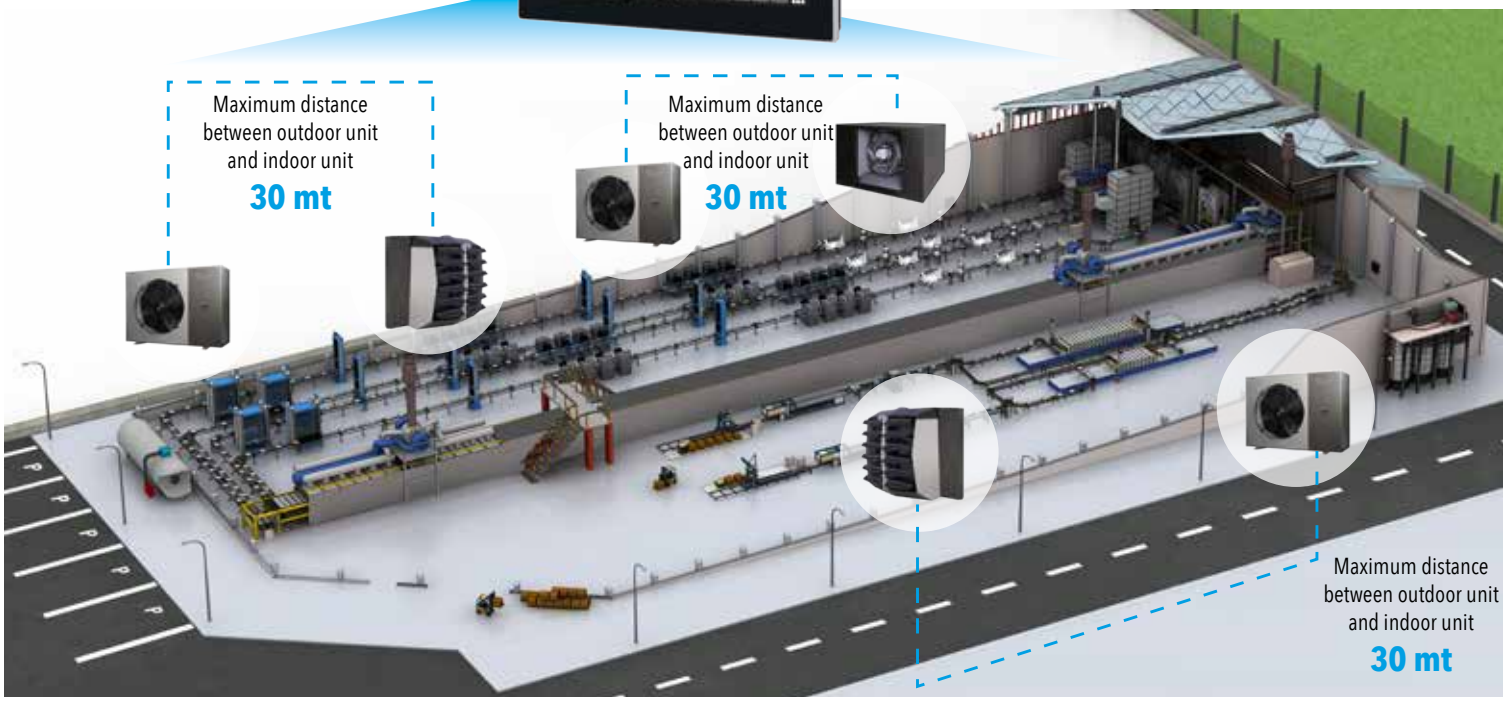
Equipped with a compressor that develops up to 50 thermal kW, they have high efficiencies and optimal performance.
The outdoor unit is combined via the R32 gas line with an indoor unit with the function of a highly silent unit heater capable of completely transferring the generated power.
By avoiding the heat exchange with water, these units eliminate the particularly felt problem of the risk of ice during the coldest winter periods, typical of air/water systems.

In harmony with Templari's philosophy, the geBlackus sizing of the indoor unit allows for maximum efficiency and maximum comfort to be obtained in all conditions, especially in terms of extremely limited acoustic impact, thanks to the use of a special low-energy inverter fan with a small number of laps.

To be able to satisfy even the needs of specific activities in which the direct air intake could create discomfort for the workers and the activity carried out internally, the new ducted internal unit was created: it can be perfectly integrated with the most modern piping systems for air transmission.
Kita Air is also fully remotely controllable, thanks to the touch display available in several versions.

INSTALLATION EXAMPLE

15" Multi-Air panel for multi-machine control.



TEMPLARI
THE HEAT PUMP

ECO FRIENDLY REFRIGERANT
R-32

INDUSTRIAL

KITA AIR

High efficiency air-to-air heat pump for industrial spaces

KITA AIR
AIR/AIR Version - INVERTER

KITA AIR

Air/air heat pump for air conditioning of industrial spaces

Kita Air is the ideal solution for winter and summer air conditioning of large industrial spaces such as warehouses, production areas, workshops and sheds, etc. The air-to-air outdoor unit is equipped with a Inverter Scroll compressor with injection which allows operation at outdoor temperatures of over -20°C. The direct exchange between the two units via refrigerant optimizes performance both as a heat pump and as a chiller. The indoor unit is also made with a special fan to minimize the acoustic impact within the environment in which it is located.

Fan with inverter motor (class A) at low speed, accurate acoustic insulation and main components mounted on refined anti-vibration suspensions.

The design of KITA heat pumps is Made in Italy.

First-class electronics ensure total control over the operation of the machine, even remotely.

OPTION INDOOR UNIT

SPLIT

DUCTED

ECO FRIENDLY REFRIGERANT **R-32**

K-TOUCH remote control panel

Advantages:

- Energy class (A+++)
- Heating
- Cooling
- Italian technology (Made in Italy)
- Photovoltaic integration
- Industrial areas
- Warehouses
- Commercial spaces
- Remote monitoring
- Easy to install
- Front ventilation
- It does not require a hydraulic circuit
- CE

TECHNICAL DATA

MODEL	Heating												Cooling	
	A 12°C / A 20° C		A 7°C / A 20° C		A 2°C / A 20° C		A -7°C / A 20° C		A -15°C / A 20° C		A -20°C / A 20° C		A 35°C / A 27° C	
	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qc	EER
	kW		kW		kW		kW		kW		kW		kW	
KITA AIR 4.3.1.4	39,00	4,70	39,00	4,45	35,00	3,75	32,00	3,20	32,00	2,70	27,00	2,50	35,00	4,02
KITA AIR Cold 4.3.1.5	40,00	4,63	40,00	4,36	35,00	4,00	35,00	3,10	35,00	2,60	30,00	2,35	37,00	4,20

Qh= Thermal capacity **COP**= Coefficient of performance **Qc**= Cooling capacity **EER**= Cooling efficiency

KITA AIR
AIR/AIR Version - INVERTER

KITA AIR

Air/air heat pump for air conditioning of industrial spaces

OUTDOOR UNIT

Power supply:	V/Ph/Hz 400/3/50
Max power consumption:	14,2 Kw (KITA AIR) 16 kw (KITA AIR COLD)
Max Current:	30 A (KITA AIR) - 38 A (KITA AIR COLD)
Operating temperature:	Winter heating -25°C / 28°C Summer conditioning 5°C / 45°C
Compressor:	Inverter steam injection scroll
External fan:	Inverter typology: BLDC Nominal diameter: 910 mm Maximum power consumption: 0,700 kW Max current: 1,1 A (3Ph) Maximum speed: 640 rps Maximum air flow: 17.203 m³/h
Outdoor unit noise:	External sound pressure (distance 5 mt): 38 dB(A)*
Outdoor unit dimensions (HxLxP):	1257 x 1791 x 641 mm (KITA AIR - KITA AIR COLD)
Refrigerant:	R32 - Q.ty 7,4
Coolant connections Ø:	GAS: 22 mm (1 1/4") - Liquid: 16 mm (5/8") Ømm
Number of connectable indoor units:	1
External heat exchangers:	No. of ranks: 3 Lug spacing: 2.5 mm Hydrophilic coating
Weight:	285 Kg

*The declared dB(A) values are obtained with the flow grid and silence kit installed

INDOOR UNIT SPLIT

Type:	Inverter BLDC
Nominal diameter:	800 mm
Maximum power consumption:	0,835kW
Max current:	1,4 A
Maximum speed:	735 rpm
Minimum air flow:	5800 m³/h
Max air flow:	14000 m³/h
Throw distance:	25 m
Indoor unit noise (distance 3 meters):	External sound pressure 42dB(A)
Indoor unit dimensions (HxLxP):	1090 x 1253 x 765 mm
External heat exchangers:	No. of ranks 3 Lug spacing 1,7 mm
Weight:	100 Kg

DUCTED INDOOR UNIT

Type:	Inverter BLDC
Nominal diameter:	630 mm
Maximum power consumption:	1,4 kW
Max current:	2 A
Maximum speed:	1000 rpm
Minimum airflow with filter:	9.338m³
Maximum airflow with filter:	11.178m³
Max air flow (only machine):	14000m³/h
Residual pressure:	380 Pa
Nominal air flow (machine+air duct):	11000 m³/h
Residual pressure:	230 Pa
Minimum air flow with filter:	9300 m³/h
Residual pressure:	180 Pa
Indoor unit dimensions (HxWxD):	978 x 1598 x 1011 mm
External heat exchangers:	No. of ranks 4 Lug spacing 1.5 mm
Weight:	208 Kg

KITA AIR
AIR/AIR Version - INVERTER

KITA AIR Plus

Air/air heat pump for air conditioning of industrial spaces

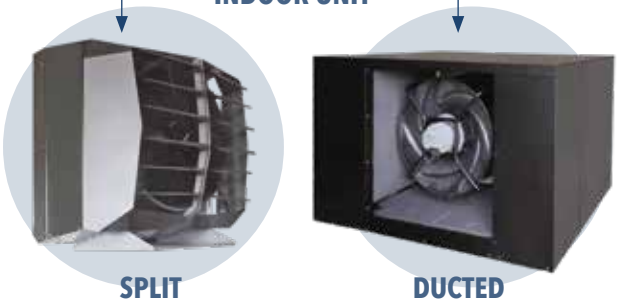
Kita Air Plus is the ideal solution for winter and summer air conditioning of large industrial spaces such as warehouses, production areas, workshops and sheds, etc. The air-to-air outdoor unit is equipped with a Inverter Scroll compressor with injection which allows operation at outdoor temperatures of over -20°C. The direct exchange between the two units via refrigerant optimizes performance both as a heat pump and as a chiller. The indoor unit is also made with a special fan to minimize the acoustic impact within the environment in which it is located.

Fan with inverter motor (class A) at low speed, accurate acoustic insulation and main components mounted on refined anti-vibration suspensions.

The design of KITA heat pumps is Made in Italy.

First-class electronics ensure total control over the operation of the machine, even remotely.

OPTION INDOOR UNIT



SPLIT DUCTED

ECO FRIENDLY REFRIGERANT R-32

K-TOUCH remote control panel

Advantages:

- A+++ Energy class
- Heating
- Cooling
- Made in Italy — Italian technology
- Photovoltaic integration
- Industrial areas
- Warehouses
- Commercial spaces
- Remote monitoring
- Easy to install
- Front ventilation
- It does not require a hydraulic circuit
- CE

TECHNICAL DATA

MODEL	Heating												Cooling	
	A 12°C / A 20° C		A 7°C / A 20° C		A 2°C / A 20° C		A -7°C / A 20° C		A -15°C / A 20° C		A -20°C / A 20° C		A 35°C / A 27° C	
	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qc	EER
	kW		kW		kW		kW		kW		kW		kW	
KITA AIR Plus 4.3.2.2	48,00	4,81	47,00	4,20	45,00	3,84	42,00	3,04	35,00	2,65	31,00	2,45	39,00	4,00

Qh= Thermal capacity **COP**= Coefficient of performance **Qc**= Cooling capacity **EER**= Cooling efficiency

KITA AIR
AIR/AIR Version - INVE RTER

KITA AIR Plus

Air/air heat pump for air conditioning of industrial spaces

OUTDOOR UNIT

Power supply:	V/Ph/Hz 400/3/50
Max power consumption:	18 kW
Max Current:	45 A
Operating temperature:	Winter heating -25°C / 28°C Summer conditioning 5°C / 45°C
Compressor:	Inverter steam injection scroll
External fan:	Inverter typology: BLDC Nominal diameter: 910 mm Maximum power consumption: 0,700 kW Max current: 1,1 A (3Ph) Maximum speed: 640 rps Maximum air flow: 18040 m³/h (AIR PLUS).
Outdoor unit noise:	External sound pressure (distance 5 mt): 38 dB(A)*
Outdoor unit dimensions (HxLxP):	1414 x 2021 x 956 mm
Refrigerant:	R32 - Q.ty 7,4
Coolant connections Ø:	GAS: 22 mm (1 1/4") - Liquid: 16 mm (5/8") Ømm
Number of connectable indoor units:	1
External heat exchangers:	No. of ranks: 3 Lug spacing: 2.5 mm Hydrophilic coating
Weight:	370 Kg

*The declared dB(A) values are obtained with the flow grid and silence kit installed

INDOOR UNIT SPLIT

Type:	Inverter BLDC
Nominal diameter:	800 mm
Maximum power consumption:	0,835kW
Max current:	1,4 A
Maximum speed:	735 rpm
Minimum air flow:	5800 m³/h
Max air flow:	14000 m³/h
Throw distance:	25 m
Indoor unit noise (distance 3 meters):	External sound pressure 42dB(A)
Indoor unit dimensions (HxLxP):	1090 x 1253 x 765 mm
External heat exchangers:	No. of ranks 3 Lug spacing 1,7 mm
Weight:	100 Kg

DUCTED INDOOR UNIT

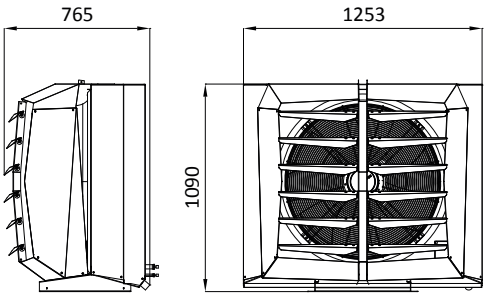
Type:	Inverter BLDC
Nominal diameter:	630 mm
Maximum power consumption:	1,4 kW
Max current:	2 A
Maximum speed:	1000 rpm
Minimum airflow with filter:	9.338m³
Maximum airflow with filter:	11.178m³
Max air flow (only machine):	14000m³/h
Residual pressure:	380 Pa
Nominal air flow (machine+air duct):	11000 m³/h
Residual pressure:	230 Pa
Minimum air flow with filter:	9300 m³/h
Residual pressure:	180 Pa
Indoor unit dimensions (HxWxD):	978 x 1598 x 1011 mm
External heat exchangers:	No. of ranks 4 Lug spacing 1.5 mm
Weight:	208 Kg

KITA AIR

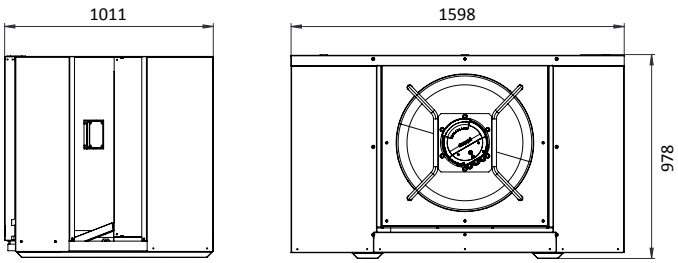
Air/air heat pump for air conditioning of industrial spaces

DIMENSIONS

Indoor unit

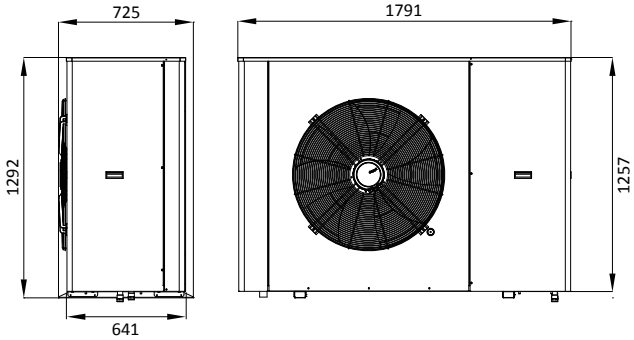


Ducted indoor unit



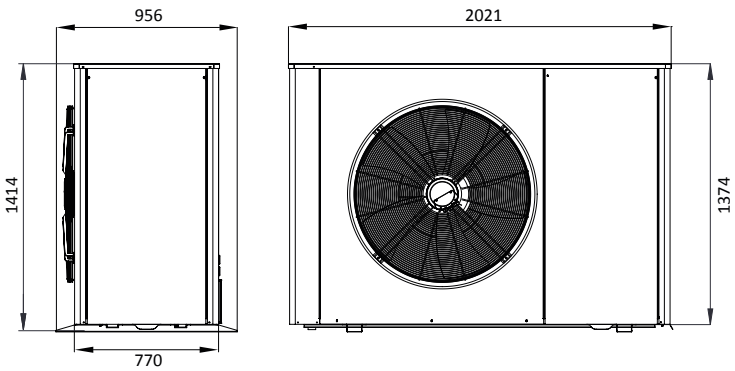
KITA AIR / AIR COLD

Outdoor Unit



KITA AIR PLUS

Outdoor Unit



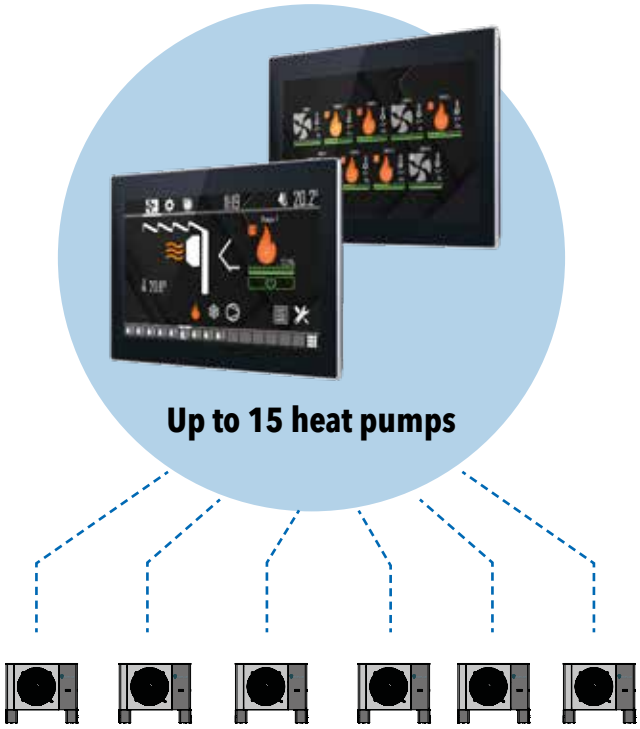
KITA AIR
AIR/AIR Version - INVERTER

KITA AIR

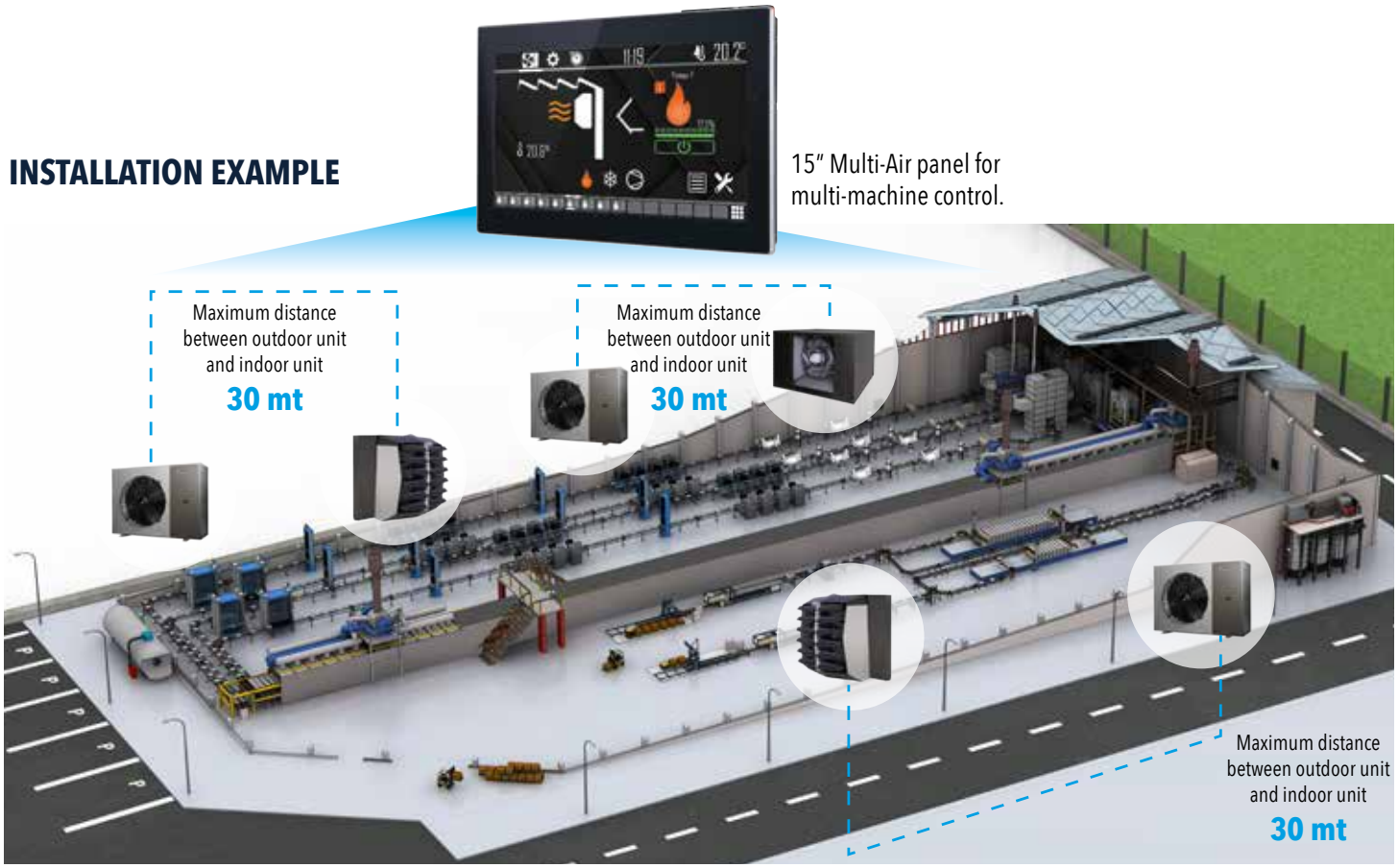
Air/air heat pump for air conditioning of industrial spaces

REMOTE CONTROL

Comfort management in just a few Touches!
For precise and efficient control of our heat pumps, we have developed a management software capable of optimizing the performance of the heat pump while guaranteeing optimal comfort.
The software also allows remote supervision of the entire system.



INSTALLATION EXAMPLE



INDUSTRIAL

R 32 | KITA Air

Outdoor unit:

Code	Description	Note	
4.3.1.4	KITA AIR outdoor unit 3Ph, AIR-AIR version with R-32		
4.3.1.5	KITA AIR COLD outdoor unit 3Ph, AIR-AIR version with R-32		
4.3.1.1C	KITA AIR outdoor unit with ducted indoor unit		
4.3.1.2C	KITA AIR COLD outdoor unit with ducted indoor unit		

Indoor unit:

Code	Description	Note	
4.4.2.1	KITA AIR/AIR PLUS indoor unit	Included in the heat pump price	
4.4.1.4	KITA AIR ducted indoor unit	Included in the heat pump price	

Obligatory accessory to be chosen from the options - Outdoor Unit:

Code	Description	Note	
4.5.1.3	Support brackets for outdoor unit	To be used with 2.1.3.2 or 2.1.3.3	
4.5.1.4	Metal legs for outdoor unit		

Obligatory Accessory - Controller:

Code	Description	Note	
4.5.3.2	7'' Touch Panel		
4.5.3.8	15,6'' MULTI-AIR Touch panel	Complete with supports	
BMS BOARD	Electronic board for additional serial port	Obbligatory with code 4.5.3.8 - One board per machine	

Obligatory Accessory - 7" Touch Panel Frame:

Code	Description	Note	
1.1.1.1.102	Flush-mounted frame for 7'' touch panel		
1.1.2.1.50	External wall-mounted metal frame for 7'' touch panel	Alternative to the 1.1.1.1.102 wall-mounted frame	

Electric options:

Code	Description	Note	
2.5.7.1	HCC, 100m roll of cable 2x0.50mmq for MODBUS connection	Modbus cable to connect the machine to the HCC (controller)	
4.5.2.8	HCC, Power kit - pair of 200m coils (red+black) 1mmq cable		
K.RSC	Condensate drain pipe heater		

Optional:

Code	Description	Note	
VE.910FG	Fan flow grid d.910		
4.5.6.2	SILENCE KIT surcharge for outdoor unit	Alternative to standard insulation	
2.1.3.5	Pair of wall brackets 1000x450 mm for indoor unit		
2.1.3.2	Pair of wall brackets 1200x700 mm for outdoor unit	Only if with 4.5.1.3	
2.7.6.10	Anti-vibration M10 x 28 Ø 50x30 mm Male Male	4 pieces	
2.1.3.3	BASE SBR floor supports, dimensions L250xH95xP130		
2.1.3.6	Pair of wall brackets 1600x830mm for KITA AIR PLUS outdoor unit	For external Plus unit and for ducted internal unit	
4.5.1.9	Outdoor unit coil protection grid	Protection Grid	
4.5.1.15	AIR filter for indoor unit, corrugated cell in aluminum mesh, 1000x550x48 mm	For internal SPLIT unit code 4.4.2.1	
4.5.1.16	AIR filter for indoor unit, corrugated cell in aluminum mesh, 700x890x48 mm	For internal ducted unit code 4.4.1.4	
4.4.1.2	9 kW electric heater		
4.4.1.3	13,5kW electric heater		

R 32 | KITA Air Plus

Outdoor unit:

Code	Description	Note	
4.3.2.2	KITA AIR Plus outdoor unit, 3Ph, AIR-AIR version with R-32		
4.3.2.1C	KITA AIR Plus outdoor unit with ducted indoor unit with R-32		

Indoor unit :

Code	Description	Note	
4.4.2.1	KITA AIR/AIR PLUS indoor unit	Included in the heat pump price	
4.4.1.4	KITA AIR ducted indoor unit	Included in the heat pump price	

Obligatory Accessory - Controller:

Code	Description	Note	
4.5.3.2	7'' Touch Panel		
4.5.3.8	15,6'' MULTI-AIR Touch panel	Complete with supports	
BMS BOARD	Electronic board for additional serial port	Obbligatory with code 4.5.3.8 - One board per machine	

Obligatory Accessory - 7" Touch Panel Frame:

Code	Description	Note	
1.1.1.1.102	Flush-mounted frame for 7'' touch panel		
1.1.2.1.50	External wall-mounted metal frame for 7'' touch panel	Alternative to the 1.1.1.1.102 wall-mounted frame	

Electric options:

Code	Description	Note	
2.5.7.1	HCC, 100m roll of cable 2x0.50mmq for MODBUS connection	Modbus cable to connect the machine to the HCC (controller)	
4.5.2.8	HCC, Power kit - pair of 200m coils (red+black) 1mmq cable		
K.RSC	Condensate drain pipe heater		

Optional:

Code	Description	Note	
VE.910FG	Fan flow grid d.910		
2.1.3.5	Pair of wall brackets 1000x450 mm for indoor unit		
2.1.3.6	Pair of wall brackets 1600x830mm for KITA AIR PLUS outdoor unit	For external Plus unit and for ducted internal unit	
2.1.3.3	BASE SBR floor supports, dimensions L250xH95xP130		
4.5.1.11	Outdoor unit coil protection grid	Protection Grid	
4.5.1.15	AIR filter for indoor unit, corrugated cell in aluminum mesh, 1000x550x48 mm	For internal SPLIT unit code 4.4.2.1	
4.5.1.16	AIR filter for indoor unit, corrugated cell in aluminum mesh, 700x890x48 mm	For internal ducted unit code 4.4.1.4	
4.4.2.2	9 kW electric heater per Indoor unit		
4.4.2.3	13,5kW electric heater per unità interna		

STORAGE TANKS/BOILERS - ACCESSORIES

TEMPLARI
THE HEAT PUMP

Heat pump boiler

Save energy, reduce your environmental impact and enjoy the comfort of a constant and sustainable supply. The smart choice for a greener and more convenient future!

Advantages:

- Energy class: A+
- Wall mounted to save floor space
- Ecological refrigerant in R290
- Water temperature output up to 65°C
- Intelligent control via WIFI

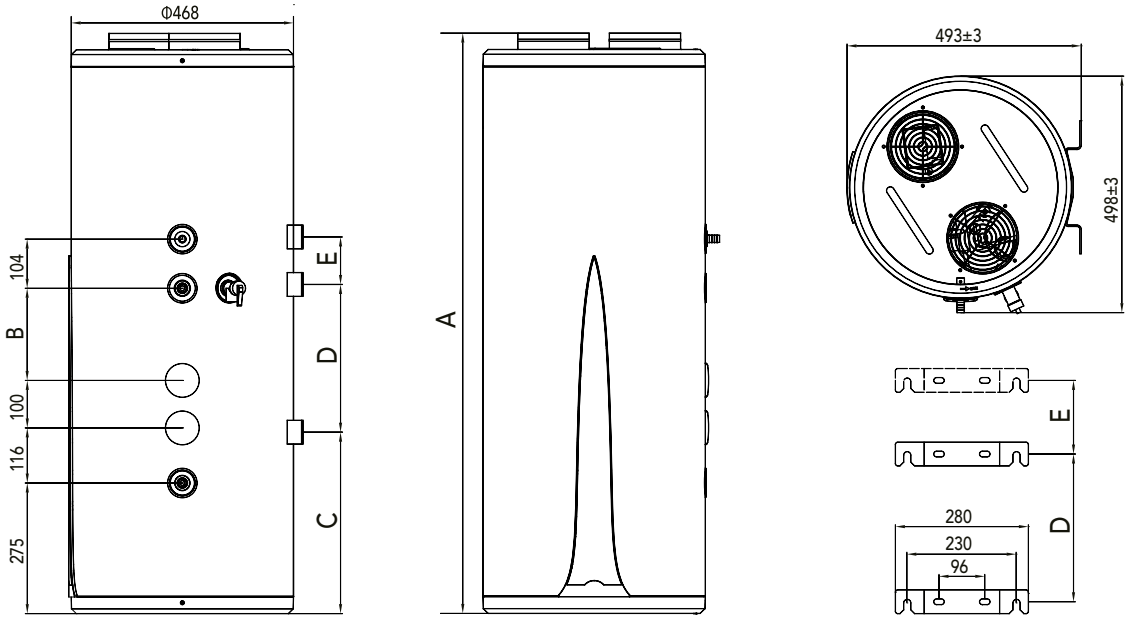
CE

HEAT PUMP BOILER

Code	Capacity	Price
4.9.1.4	80 L	1.950,00 €
4.9.1.1	100 L	2.100,00 €

TECHNICAL FEATURES

Water tank capacity	80 l	100 l
Energy Class	A+	A+
Code	YT-80GV2	YT-100GV2
Power supply	230~V- 1ph- 50 Hz	220~240 V~V- 1ph-50 Hz
Thermal Power	950W	950W
Nominal hot water production	20 l/h	20 l/h
Maximum power absorbed	2300W	2300W
Maximum current absorbed	10.2A	10.2A
COP	4.32W/W	4.32W/W
Heat pump		
Rated power	220W	220W
Rated current	0.98A	0.98A
Electric heater		
Rated power	2000W	2000W
Rated current	8.7A	8.7A
Refrigerant Type/Charge/GWP	R290/150g/3	R290/150g/3
CO^2	0,00045 t	0,00045 t
Working ambient temperature	-7~43°C	-7~43°C
Electrical Energy Efficiency	118.3%	118.3%
COP EN16147 20-15C°	2.787	2.787
Maximum volume of mixed water at 40 °C (V40)	87 l	87 l
Maximum working pressure of the heat exchanger	3.0 MPa	3.0 MPa
Maximum operating pressure on delivery side	3.0 MPa	3.0 MPa
Maximum operating pressure on return side	0.8 MPa	0.8 MPa
Nominal working pressure of the tank	0.8 MPa	0.8 MPa
IP Class	IPX1	IPX1
Water pipe connections	DN15	DN15
Nominal air flow rate	450 m³/h	450 m³/h
Unit dimensions	468 mm (Ø) x 1222 mm (h)	468 mm (Ø) x 1222 mm (h)
Packaging dimensions (L*W*H)	580 mm x 580 mm x 1245 mm	580 mm x 580 mm x 1460 mm
Noise Level	48dB	48dB
Weight	48 kg	56 kg



Domestic hot water enameled boiler for heat pump

Enamelled carbon steel boiler for the production and storage of DHW equipped with one or two internal fixed coil heat exchangers which can be fed by a heat pump and a solar system. The special parallel double spiral heat exchanger of the boiler allows a more effective transmission of the power supplied by the heat pump in colder regions thus reducing the number of start-up and shutdown cycles to the full advantage of the life and reliability of the system.

Sanitary

- Material: S 235 Jr porcelain glass
- Treat. internal protective: Inorganic food enamel (DIN 4753.3)
- Treat. external protective: Anti-rust painting and industrial enamel
- Operation (P max. / T max.): 8 bar / 95°C
- Cathodic protection: Magnesium anode

Upper heat exchanger (heat pump)

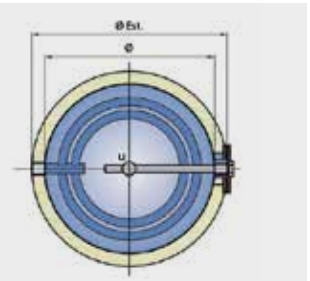
- Material: S 235 Jr porcelain glass
- Treat. internal protective: Raw
- Treat. external protective: Inorganic food enamel (DIN 4753.3)
- Typology: Fixed coil with double parallel spiral
- Operation (P max. / T max.): 10 bar / 95°C

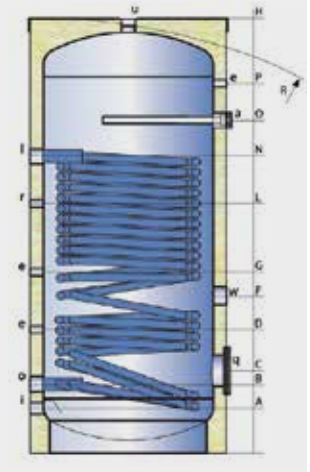
Technical data

- Capacity: 10 bars / 95°C
- Warranty: 5 years
- Insulation: Rigid polyurethane + pvc:
  Fire resistance class B3 (DIN 4102)
- Flexible insulation in Polyester + PVC:
- Fire resistance class B2 (DIN 4102)
- Reference legislation:
  - Directive 2014/68/EU (PED) Art. 4 Par. 3 (pressure equipment)
  - Ministerial Decree of 6 April 2004 N.174 (suitability of materials in contact with ACS)
  - Directive 2009/125/CE (Energy related Products)
- ErP: B from 300 to 600 L / C from 800 to 1000 L

Code	Product	Insulation thick(mm)	Heat loss s (W)	Real capacity (L)	Heat exch. (m^2) / (L) *	Dimensions (mm)				Weight (Kg)
						Ø	H	H Est** hard/ soft ins.	R***	
2.4.4.16	**200 L**	50	56,7	189,8	2,10 / 20,6	450	1320	550	1440	78
2.4.4.6	**300 L**	50	69,2	290,3	3,50 / 34,3	500	1610	600	1730	110
2.4.4.13	**400 L**	50	73,0	414,9	4,50 / 44,1	650	1410	750	1610	133
2.4.4.7	**500 L**	50	81,6	500,3	5,70 / 55,9	650	1660	750	1835	159
2.4.4.33	**600 L**	50	90,2	585,7	5,70 / 55,9	650	1910	750	2065	167
2.4.4.8	**800 L**	100	106,6	749,8	6,00 / 58,8	790	1750	990 / 1050	1745	215
2.4.4.9	**1000 L**	100	110,5	931,5	6,00 / 58,8	790	2110	990 / 1050	2095	251

For capacities from 200 to 600 litres, the tilt height refers to the insulated cylinder ** The insulation is removable except for models from 200 to 600 litres





Code	Dimensions (mm)										Connections (gas)						
	A	B	C	D	F	G	L	N	O	P	a	l o	e	r	i u	w	q
2.4.4.16	95	187	262	342	623	623	743	1077	953	1087	1"¼	1"	½"	½"	1"	1"½	120/180
2.4.4.6	120	210	300	320	495	780	925	1110	1160	1365	1"¼	1"¼	½"	½"	1"	1"½	120/180
2.4.4.13	145	240	310	340	525	680	870	1005	1030	1140	1"¼	1"¼	½"	½"	1"	1"½	120/180
2.4.4.7	145	240	310	350	570	810	1020	1250	1280	1390	1"¼	1"¼	½"	½"	1"	1"½	120/180
2.4.4.33	145	240	310	390	605	930	1070	1250	1510	1640	1"¼	1"¼	½"	½"	1"	1"½	120/180
2.4.4.8	150	275	345	405	620	840	1000	1170	1310	1425	1"¼	1"¼	½"	1"	1"½	1"½	120/180
2.4.4.9	150	275	345	475	750	1000	1120	1275	1615	1770	1"¼	1"¼	½"	1"	1"½	1"½	120/180

Domestic hot water enameled boiler for heat pump

	Model	2.4.4.16				2.4.4.6				2.4.4.13				2.4.4.7				2.4.4.33				2.4.4.8				2.4.4.9			
	HEAT EXCH. (m^2) [L][1]	2,1 [14,9]				3,5 [24,9]				4,5 [32,0]				5,7 [40,5]				5,7 [40,5]				6,0 [42,6]				6,0 [42,6]			
	PRIM .. FLOW (m^3/h)	2				2				3				3				3				3				3			
	TPRIM. TEMP.(°C)	50	60	70	80	50	60	70	80	50	60	70	80	50	60	70	80	50	60	70	80	50	60	70	80	50	60	70	80
DHW FROM 10 TO 45 °C	LITRES 1 0' (L/10')[2]	216	266	370	412	295	366	505	564	428	525	727	808	577	690	956	1049	658	771	1072	1165	902	1018	1424	1520	1075	1191	1671	1767
	LITRES FIRST HOUR[2]	593	892	1215	1466	866	1295	1744	2099	1187	1769	2393	2875	1489	2167	2922	3479	1571	2247	3037	3595	1851	2548	3458	4032	2023	2721	3704	4278
	CONT. DRAW (L)[3]	476	791	1067	1332	722	1173	1565	1938	960	1572	2104	2612	1153	1866	2483	3070	1153	1865	2482	3070	1198	1933	2569	3173	1198	1933	2568	3173
	POWER (kW)	19	32	43	54	29	48	64	79	39	64	86	106	47	76	101	125	47	76	101	125	49	79	105	129	49	79	105	129
	PREHEATING[3] (min)	21	12	9	7	19	11	8	6	21	12	9	7	26	15	11	9	32	19	14	11	47	27	20	16	58	34	24	19
DHW FROM 10 TO 60 °C	LITRES 10' (L/10')[2]	-	-	227	261	-	-	310	359	-	-	449	515	-	-	602	679	-	-	683	760	-	-	928	1007	-	-	1100	1180
	LITRES FIRST HOUR[2]	-	-	659	864	-	-	961	1253	-	-	1316	1712	-	-	1640	2101	-	-	1721	2182	-	-	2005	2480	-	-	2178	2653
	CONT. DRAW[3]	-	-	546	761	-	-	822	1130	-	-	1095	1512	-	-	1311	1796	-	-	1311	1796	-	-	1361	1861	-	-	1361	1861
	POWER (kW)	-	-	32	44	-	-	48	66	-	-	63,7	87,9	-	-	76,2	104,5	-	-	76	104	-	-	79	108	-	-	79,2	108,2
	PREHEATING[3] (min)	-	-	18	13	-	-	16	12	-	-	18	13	-	-	23	16	-	-	28	19	-	-	40	28	-	-	50	35
	NL[4]	5				11				20				30				34				44				53			

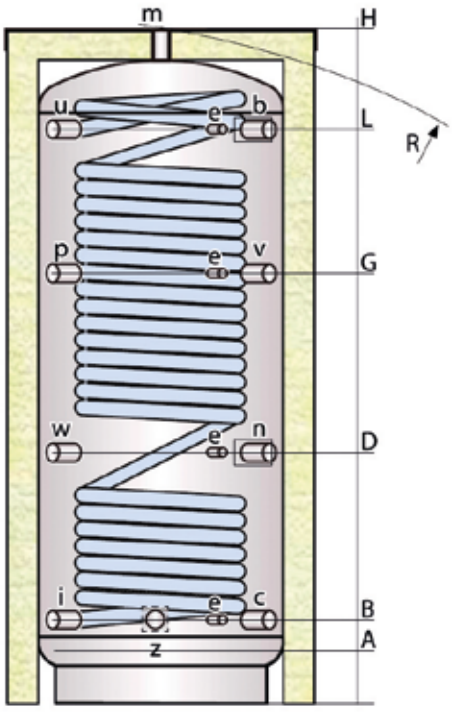
(1) Volume of fluid contained in the heat exchanger (2) Obtainable with pre-heated cylinder (at 45 °C with primary side set at 50 or 60 °C and pre-heated at 60 °C in the other cases) and a running heat source
(3) With a proper power heat source generator (4) Primary side 80 °C - Secondary side 10-45 °C

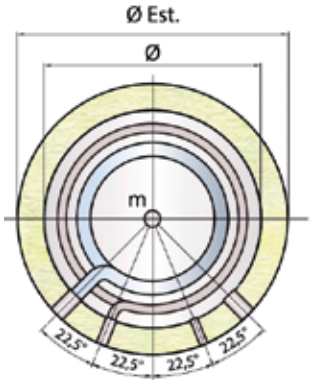
Optional

Code	Description
2.4.4.10	INOX Heat Exchanger for Buffer tank - 3KW 1Ph 230V
2.4.4.11	INOX Heat Exchanger for Buffer tank - 3KW 3Ph 400V

Maxi buffer tank with istant DHW production

Thermal accumulator for the storage of heating water produced by continuous or discontinuous heat sources; instantaneous production of domestic hot water (DHW) by means of a Heat exch. corrugated heat sink in high efficiency AISI 316L stainless steel. Available in the versions: storage only, storage + one Heat exch. fixed coil primary heat exchangers, storage + two fixed coil primary heat exchangers.
The heat transfer fluid contained in the external Buffer tank and in the primary exchangers must operate in a "closed circuit" (i.e. without oxygen) in order to avoid corrosive phenomena.





b. Biomass boiler flow
c. Biomass boiler return
e. Thermometer - Sensor i. Domestic cold water inlet
m. Buffer vent
n. Heating system return
p. Free connection
u. Domestic hot water outlet
v. Heating system flow
w. Opening for immersion heater
z. Low temperature heating system return

Sanitary:
Material: Stainless steel AISI 316L (1.4404)
Treat. internal and external protective:
Pickling and passivation
Typology: Corrugated pipe
Operation (P max. / T max.): 6 bar / 95°C

Buffer tank:
Material: S 235 Jr
Treat. internal protective: Raw
Treat. external protective:
Painting with anti-rust and industrial enamel
Operation (P max. / T max.): 3 bar / 95°C

Heat exch.:
Material: S 235 Jr. steel
Treat. internal and external protective: Raw
Typology: Fixed spiral
Operation (P max. / T max.): 10 bar/95°C

General characteristics:
Capacity: 600 - 1000 L
Warranty: 5 years
Insulation:

- Soft insulation with polyester + PVC: Fire retardant class B2 (DIN 4102)
- Hard insulation:
- Polyurethane foam + PVC for 600/800/100/1500/2000 litres capacity:
  Fire retardant class B3 (DIN 4102)
  Polyester (15mm) + polystyrene (85mm) + PVC for 1250 litres capacity:
  Fire retardant class B2 (DIN 4102)
- Pressure Equipment Directive (PED) 2014/68/UE Art. 4 Para 3
- Italian MOH specifications (products suitable to contain potable water)
- Energy related Products (Erp) Directive 2009/125/CE

Code	Product	Dimensions (mm)				Insulation (mm)	Exchanger (Mq)			DHW Heat exchanger		Weight (Kg)
		Ø	H	Ø Est*	R		Lower	Upper	DHWInox	m2 (L)	DHW Contt. draw di ACS* (l/h)	
2.4.4.23	**600 L**	650	1895	750	2050*	50	2,50	1,80	36,0	5,5 (31,9)	1149	175
2.4.4.24	**800 L**	790	1750	990/1050	1745	100	2,50	2,00	7,00	7,0 (40,6)	1651	212
2.4.4.27	**1000 L**	790	2110	990/1050	2095	100	3,50	2,50	7,50	7,5 (43,5)	1824	253

* For the 600 litres model, the tilt height refers to the insulated cylinder. ** The insulation is removable except for the 600 litres model.

Code	Heights (mm)					Connections (gas)		
	A	B	D	G	L	e	iu	d c m n p v w z
2.4.4.23	135	235	700	1270	1630	1/2"	1"1/4	1"1/2
2.4.4.24	170	275	655	1145	1410	1/2"	1"1/4	1"1/2
2.4.4.27	170	275	810	1355	1755	1/2"	1"1/4	1"1/2

Code	Lower heat ecxhanger performance					Upper heat exchanger performance				
	m^2 (L)	POWER (kW) ΔT* 10° C	ΔT* 15° C	ΔT* 20° C	ΔT* 25° C	m^2 (L)	Power (kW) ΔT* 10° C	ΔT* 15° C	ΔT* 20° C	ΔT* 25° C
2.4.4.23	2,5 (17,8)	16,0	24,0	32,0	40,0	1,8 (12,8)	11,5	17,3	23,0	28,8
2.4.4.24	2,5 (17,8)	16,0	24,0	32,0	40,0	2,0 (14,2)	12,8	19,2	25,6	32,0
2.4.4.27	3,5 (24,9)	22,4	33,6	44,8	56,0	2,5 (17,8)	16,0	24,0	32,0	40,0

* ΔT: difference between the average temperature of the heating fluid (inside the heat exchanger) and the average temperature of the heated fluid (internal to the buffer in the area affected by the coil)

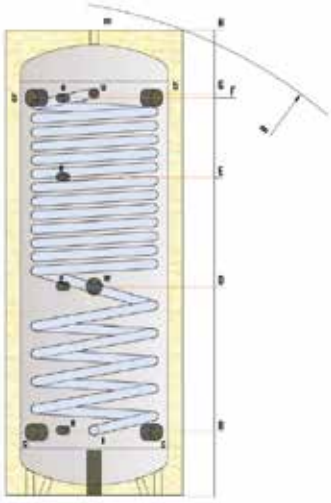
Code	2.4.4.23	2.4.4.24	2.4.4.27
DHW Heat exchanger m^2 (L)	5,5 (27,5)	7,0 (35,0)	7,5 (37,5)
DHW Power and flow rate (from 10 to 45°C) in continuos draw at different primary side temperature			
Primary a 55° C Kw (l/h)	31,8 (744)	45,7 (1069)	50,5 (1182)
Primary a 65° C Kw (l/h)	49,1 (1207)	70,6 (1733)	78,0 (1917)
Primary a 75° C Kw (l/h)	57,5 (1412)	82,5 (2028)	91,3 (2242)
DHW* producible with a 10 L/min flow rate from a totally heated buffer and a not running heat source			
Buffer at 55° C Kw (l/h)	170	265	352
Buffer at 65° C Kw (l/h)	232	357	476
Buffer at 75° C Kw (l/h)	441	564	701
DHW* producible with a 20 L/min flow rate from a totally heated buffer and a not running heat source			
Buffer at 55° C Kw (l/h)	115	170	221
Buffer at 65° C Kw (l/h)	157	248	331
Buffer at 75° C Kw (l/h)	263	376	486
DHW* producible with a 10 L/min flow rate, from a buffer heated only on the upper part and a not running heat source			
Buffer at 55° C Kw (l/h)	107	166	217
Buffer at 65° C Kw (l/h)	146	224	293
Buffer at 75° C Kw (l/h)	278	353	432
DHW* producible with a 20 L/min flow rate, from a buffer heated only on the upper part and a not running heat source			
Buffer at 55° C Kw (l/h)	73	106	136
Buffer at 65° C Kw (l/h)	99	155	331
Buffer at 75° C Kw (l/h)	166	235	486
NL**	2,1	3,2	4,0

* from 10 to 45 °C
** Buffer at 70 °C, DHW from 10 to 45° C

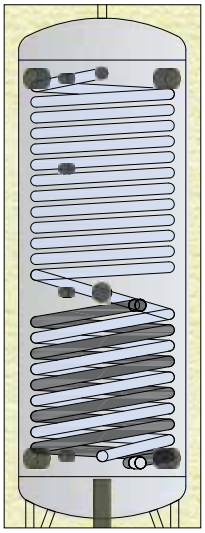
Optional

Code	Description
2.4.4.10	INOX Heat Exchanger for Buffer tank - 3KW 1Ph 230V
2.4.4.11	INOX Heat Exchanger for Buffer tank - 3KW 3Ph 400V

Smart buffer tank with instant DHW production



The Smart combined thermal store is a primary water storage tank mainly intended for the instantaneous production of domestic hot water (DHW) by means of a Heat exch. corrugated heat exchanger in AISI 316L stainless steel with very high exchange efficiency. It is available in the storage only + DHW production or storage + DHW and Heat exch production version.



Combined storage tank Smart version with solar coil

b. Heat source flow
c. Heat source return
e. Thermometer - Sensor
i. Domestic cold water inlet
m. Buffer vent
u. Domestic hot water outlet
w. Opening for immersion heater

General features:
Reference legislation
- Directive 2014/68/EU (PED) Art. 4 Par. 3 (pressure equipment)
- Ministerial Decree of 6 April 2004 N.174 (suitability of materials in contact with ACS)
- Directive 2009/125/CE (Energy related Products)

ErP: B

Sanitary:
Material: Stainless steel AISI 316L (1.4404)
Treat. internal and external protective:
Pickling and passivation
Typology: Corrugated pipe
Operation (P max. / T max.): 6 bar / 95°C

Buffer tank:
Material: S 235 Jr
Treat. internal protective: Raw
Treat. external protective:
Painting with anti-rust and industrial enamel
Operation (P max. / T max.): 3 bar / 95°C

Heat exch.:
Material: Stainless steel AISI 316L (1.4404)
Treat. internal and external protective:
Pickling and passivation
Typology: Corrugated pipe
Operation (P max. / T max.): 6 bar/95°C

Code	Product	Dimensions (mm)				Insulation (mm)	Heat exch. (m^2) Inf.	Heat exch. sanitario inox (m^2)	POWER (kW)	DHW Contt. draw ACS* (l/h)	Weight (Kg)
		Ø	H	Ø Est*	R						
2.4.4.21	**300 L**	500	1580	600	1520	50	1,20	4,0	36,0	884	70
2.4.4.22	**400 L**	600	1610	799	1660	50	1,40	5,0	45,0	1105	104
2.4.4.42	**300 L**	500	1580	600	1520	50	1,20	4,0	36,0	884	70
2.4.4.20	**400 L**	600	1610	799	1660	50	1,40	5,0	45,0	1105	104

* Average buffer temp. 65 °C, DHW from 10 to 45° C

Code	DHW producible with a 10 L/min flow rate, with a totally heated buffer and a not running heat source			DHW producible with a 20 L/min flow rate, with a totally heated buffer a not running heat source			
	Buffer at 55° C (L)	Buffer at 65° C (L)	Buffer at 70° C (L)	Buffer at 55 C (L)	Buffer at 65° C (L)	Buffer at 70° C (L)	NL(3)
2.4.4.21	82	185	269	45	112	175	1
2.4.4.22	112	252	367	61	153	139	1,2
2.4.4.42	82	185	269	45	112	175	1
2.4.4.20	112	252	367	61	153	139	1,2

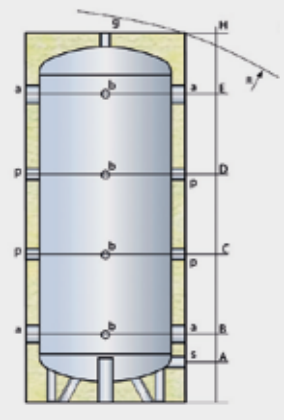
(2) from 10 to 45 °C-(3) Buffer at 70 °C, DHW from 10 to 45° C

Code	Dimensions (mm)					Connections (gas)		
	B	D	E	F	G	b c w	e m	i u
2.4.4.21	221	710	1080	1350	1365	1"1/2	1/2"	3/4"
2.4.4.22	230	644	1090	1350	1365	1"1/2	1/2"	3/4"
2.4.4.42	221	710	1080	1350	1365	1"1/2	1/2"	3/4"
2.4.4.20	230	644	1090	1350	1365	1"1/2	1/2"	3/4"

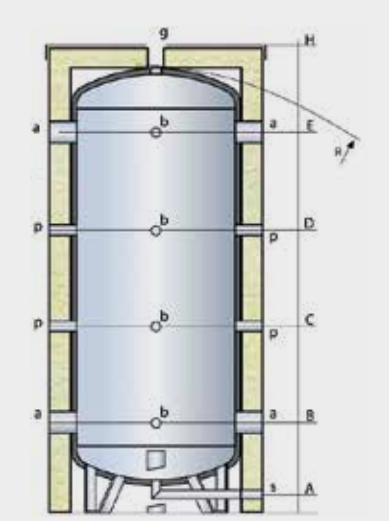
Optional

Code	Description
2.4.4.10	INOX Heat Exchanger for Buffer tank - 3KW 1Ph 230V
2.4.4.11	INOX Heat Exchanger for Buffer tank - 3KW 3Ph 400V

Heating & cooling buffer tank



Polyurethane insulation
rigid and PVC coated



Anti-condensation insulation in PEXL +
flexible polyester and PVC coating

a. System Inlet/Outlet
b. Control instruments
g. Vent / safety valve
p. Free connection
s. Drain

Tank:
Material: S 235 Jr
Treat. internal protective: Raw
Treat. external protective: Painted
with anti-rust and industrial enamel
Operation (P max. / T max.): 6 bar / -10°C to +95°C
Capacity: 200/500 L - 800/1000 L - 1500 L

TECHNICAL FEATURES:
Warranty: 5 years
Insulation:
- From 200 to 1000 L: 50 mm thick polyurethane foam + PVC: Fire retardant class B3 (DIN 4102)
- From 1500 to 2000 L: PEXL + soft polyester + PVC: Fire retardant class B2 (DIN 4102)
- Pressure Equipment Directive (PED) 2014/68/UE Art. 4 Para 3
- Energy related Products (Erp) Directive 2009/125/CE

Code	Product	Insulation thick(mm)	Heat loss s (w)	Real capacity (L)	Dimensions (mm)				Weight (Kg)
					Ø	H	Ø Est*	R*	
2.4.4.29	**100 L**	50	46,0	97,0	400	915	500	1055	31
2.4.4.1	**200 L**	50	58,9	189,3	450	1330	550	1450	33
2.4.4.2	**300 L**	50	68,1	289,8	500	1610	600	1730	42
2.4.4.3	**500 L**	50	80,5	499,8	650	1665	750	1840	68
2.4.4.4	**800 L**	50	117,5	749,3	790	1700	890	1930	86
2.4.4.5	**1000 L**	50	130,4	931,0	790	2060	890	2255	102
2.4.4.17	**1500 L**	10	163,8	1472,4	1000	2145	1280	2235	147

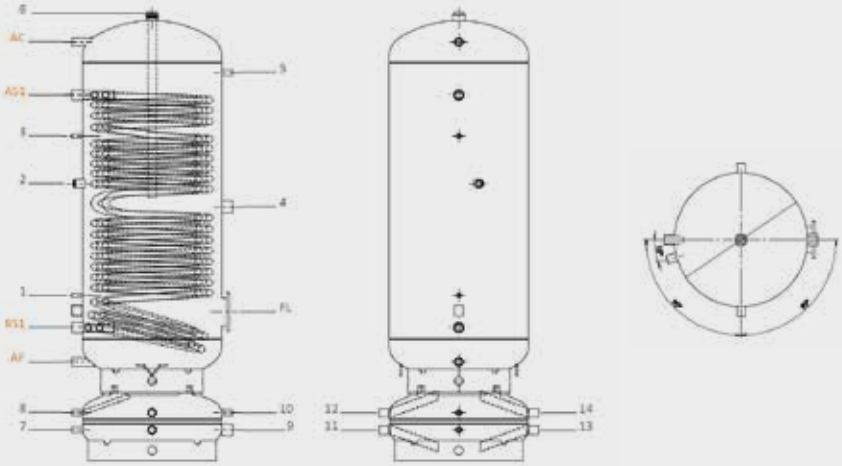
* For capacities from 100 to 1000 litres, the tilt height refers to the insulated cylinder - * The insulation is not removable except for models from 1500 to 5000 litres (only the soft poly ester insulation is removable)

Code	Dimensions (mm)					Connections (gas)				
	A	B	C	D	E	a	b	g	p	s
2.4.4.29	105	210	380	545	710	1"1/2	1/2"	1"1/4	1"1/2	1"
2.4.4.1	135	20	510	805	1095	1"1/2	1/2"	1"1/4	1"1/2	1"
2.4.4.2	125	275	625	975	1320	2"	1/2"	1"1/4	1"1/2	1"
2.4.4.3	155	305	655	1005	1350	3"	1/2"	1"1/4	1"1/2	1"
2.4.4.4	170	320	670	1020	1365	3"	1/2"	1"1/4	1"1/2	1"
2.4.4.5	170	320	785	1250	1710	3"	1/2"	1"1/4	1"1/2	1"
2.4.4.17	110	485	915	1350	1780	3"	1/2"	1"1/4	1"1/2	1"

Optional

Code	Description
2.4.4.10	INOX Heat Exchanger for Buffer tank - 3KW 1Ph 230V
2.4.4.11	INOX Heat Exchanger for Buffer tank - 3KW 3Ph 400V

Bi-puffer



1	Probe	Ø20	AC	DHW	1”
2	Recirculation	1”	7	Hydraulic connection	1/2”
3	Probe	Ø20	8	Hydraulic connection	1/2”
4	Heat exchanger	1” 1/2	9	Hydraulic connection	1” 1/2
5	Thermometer	1/2”	10	Hydraulic connection	1/2”
6	Magnesium anode	1” 1/2	11	Hydraulic connection	1”
FL	DHW inspection hatch	Ø180/120	12	Hydraulic connection	1”
RS1	H.p. return	1”	13	Hydraulic connection	1”
AS1	H.p. flow	1”	14	Hydraulic connection	1”
AF	Domestic cold water	1”			

Code	Lower coil		Weight (Kg)	Volume (l)	Heat loss (w)	Erp
	(m^2)	(l)				
2.4.4.34	3,7	25,9	147	300 + 100	80	C

Code	1	2-4	3	5	FL	RS1	AF	AC	Ø	H	7	8	9-11-13	10-12-14
2.4.4.34	898	1318	1538	1738	828	748	609	1868	650	1982	127	386	196	316

Code	Primary water fixed coil				Continuous DHW withdrawal 10-45°C 35 ΔT		
		Flow (coil)					
	Lower (mq)	Capacity	ΔT	T	Power	Capacity	
2.4.4.34	3,7	2000 l/h	22	60°	52 kW	0,35 l/s	1273 l/h
		2000 l/h	35	70°	82kW	0,56 l/s	2015 l/h
		2000 l/h	45	80°	104kW	0,71 l/s	2546 l/h

Code	DHW withdrawal			
			Withdrawable DHW	
	T prim.	T acc.	10 min	60 min
2.4.4.34	55° C	50° C	412	1005
	65° C	60° C	594	1308
	70° C	60° C	643	1460
	80° C	60° C	695	1705

Optional

Code	Description
2.4.4.10	INOX Heat Exchanger for Buffer tank - 3KW 1Ph 230V
2.4.4.11	INOX Heat Exchanger for Buffer tank - 3KW 3Ph 400V

Domestic hot water enameled boiler for heat pump

Code	Description	Note	
2.4.4.16	200 L DHW - enameled boiler		
2.4.4.6	300 L DHW - enameled boiler		
2.4.4.13	400 L DHW - enameled boiler		
2.4.4.7	500 L DHW - enameled boiler		
2.4.4.33	600 L DHW - enameled boiler		
2.4.4.8	800 L DHW - enameled boiler		
2.4.4.9	1000 L DHW - enameled boiler		

Optional

Code	Description	Note	
2.4.4.10	INOX Heat Exchanger for Buffer tank - 3KW 1Ph 230V		
2.4.4.11	INOX Heat Exchanger for Buffer tank- 3KW 3Ph 400V		

Smart Buffer tank with instant DHW production

Code	Description	Note	
2.4.4.21	300 L buffer tank		
2.4.4.22	400 L buffer tank		
2.4.4.42	300 L buffer tank with 1 coil		
2.4.4.40	400 L buffer tank with 1 coil		

Optional

Code	Description	Note	
2.4.4.10	INOX Heat Exchanger for Buffer tank - 3KW 1Ph 230V		
2.4.4.11	INOX Heat Exchanger for Buffer tank- 3KW 3Ph 400V		

Maxi Buffer tank with instant DHW production

Code	Description	Note	
2.4.4.23	600 L buffer tank		
2.4.4.24	800 L buffer tank		
2.4.4.27	1000 L buffer tank		
2.4.4.30	600 L buffer tank with 1 coil		

Optional

Code	Description	Note	
2.4.4.10	INOX Heat Exchanger for Buffer tank - 3KW 1Ph 230V		
2.4.4.11	INOX Heat Exchanger for Buffer tank- 3KW 3Ph 400V		

Heating & Cooling Buffer Tank

Code	Description	Note	
2.4.4.29	100 L heating/cooling buffer tank		
2.4.4.1	200 L heating/cooling buffer tank		
2.4.4.2	300 L heating/cooling buffer tank		
2.4.4.3	500 L heating/cooling buffer tank		
2.4.4.4	800 L heating/cooling buffer tank		
2.4.4.5	1000 L heating/cooling buffer tank		
2.4.4.17	1500 L heating/cooling buffer tank		

Optional

Code	Description	Note	
2.4.4.10	INOX Heat Exchanger for Buffer tank - 3KW 1Ph 230V		
2.4.4.11	INOX Heat Exchanger for Buffer tank- 3KW 3Ph 400V		

BI-Puffer

Code	Description	Note	
2.4.4.34	300/100 L. Bi buffer tank		
2.4.4.43	400/100 L. Bi buffer tank		

Optional

Code	Description	Note	
2.4.4.10	INOX Heat Exchanger for Buffer tank - 3KW 1Ph 230V		
2.4.4.11	INOX Heat Exchanger for Buffer tank- 3KW 3Ph 400V		

Accessories

Complete circulator kits:

Code	Description	Note	
4.10.1.1	CIRCULATOR KIT WILO PARA 8		
4.10.1.2	CIRCULATOR KIT GRUNDFOS UPM10XL 25-125 180		
4.10.1.3	CIRCULATOR KIT WILO PARA 9		
4.10.1.4	CIRCULATOR KIT GRUNDFOS UPM4XL 25-90		
4.10.1.5	CIRCULATOR KIT WILO YONOS PARA HF 30/12		
4.10.1.6	CIRCULATOR KIT GRUNDFOS UPM4 15-75 PWM		
2.4.1.18	KIT CIRCULATOR SHINOO GPA 32-17H PRO 180 (2")	Alternative cod. 4.10.1.5	
2.4.1.19	KIT CIRCULATOR SHINOO GPA 25-13H PRO 180	Alternative cod. 4.10.1.2	

3 Way Valve:

Code	Description	Note	
4.5.4.1	3-WAY valve kit (body + machined motor)		
2.4.2.28	3-Way Motorized Valve TMO XL 40E SPDT		

Dirt-separator:

Code	Description	Note	
2.4.2.20	CALEFFI dirt separator 1''1/4 M - 1''1/4M		
2.4.2.23	DF MAGNUM G1 in-line dirt separator		

Circulation Groups

Circulation groups:

Circulations groups are suitable for the regulation and distribution of the heat transfer fluid in multi-zone heating and cooling systems. multi-zone. They are generally installed in the heating plant, after the boiler/heat pump and the hydraulic separator and are mounted on the distribution manifolds.

All units are complete with ball shut-off valves with built-in thermometer with 0-80 °C scale, connections for probe holders, high-efficiency circulator, pipework with non-return valve and PE insulation shell.

Direct circulation group:
These units are designed to directly relaunch the heat transfer fluid (hot or cold water) without mixing.hot or cold water) without mixing. They are ideal for applications where it is necessary to maintain a constant and uniform temperature. Some examples of use include:
- Heating: Uniform heat distribution in underfloor heating systems or radiators.
- Cooling: Uniform cooling distribution in underfloor cooling systems or fan coils. floor or fan coils.

Mixing circulation group:
These units are equipped with a mixing valve to regulate the temperature of the heat transfer fluid by mixing hot and cold water. They are ideal for applications where it is necessary to control the temperature of the fluid precisely. Some examples of use include:
- Heating: Precise temperature control in underfloor heating systems or radiators.
- Cooling: Precise temperature control in underfloor cooling systems or fan coils.

Both types of circulation groups improve the energy efficiency and comfort of heating and cooling systems.

Code	Description	Note	
2.4.6.1	Mixing circulation group		
2.4.6.2	Direct circulation group		
2.4.6.3	Collector group 2 relays		
2.4.6.4	Electric Actuator 230 V supply voltage 3-point		
2.4.6.5	Proportional Electric Actuator 24V supply voltage (0-10V)		
2.4.6.6	Collector group 3 relays		
2.4.6.7	Collector group 4 relays		
4.5.7.2	Direct circulation group including circulator WILO PARA 8		
4.5.7.3	Mixing circulation group including circulator WILO PARA 8		
4.5.7.4	Direct circulation group including circulator WILO PARA 9		
4.5.7.5	Mixing circulation group including circulator WILO PARA 9		

Notes

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