



ITALIAN
COMPANY
SINCE 1956

INTEGRATED SYSTEMS PROFESSIONAL CHANNEL

Catalogue 2021





Olimpia Splendid. Home of Comfort

Home is synonymous with comfort: a simple equation that we are committed to ensuring, in every season and in every country in the world, offering innovative, safe and sustainable solutions, all with an exceptionally high-level aesthetic finish.

About us

Olimpia Splendid is an Italian company that, since 1956, has been designing, manufacturing and marketing products for Air Conditioning, Heating and Air Treatment. The **Home of Comfort** payoff describes our commitment to creating innovative, environmentally friendly products with an unmistakable Made in Italy design. Our goal is to satisfy, in every season, the needs of our customers worldwide. **Comfort at Home** is the result.

Italian company since 1956

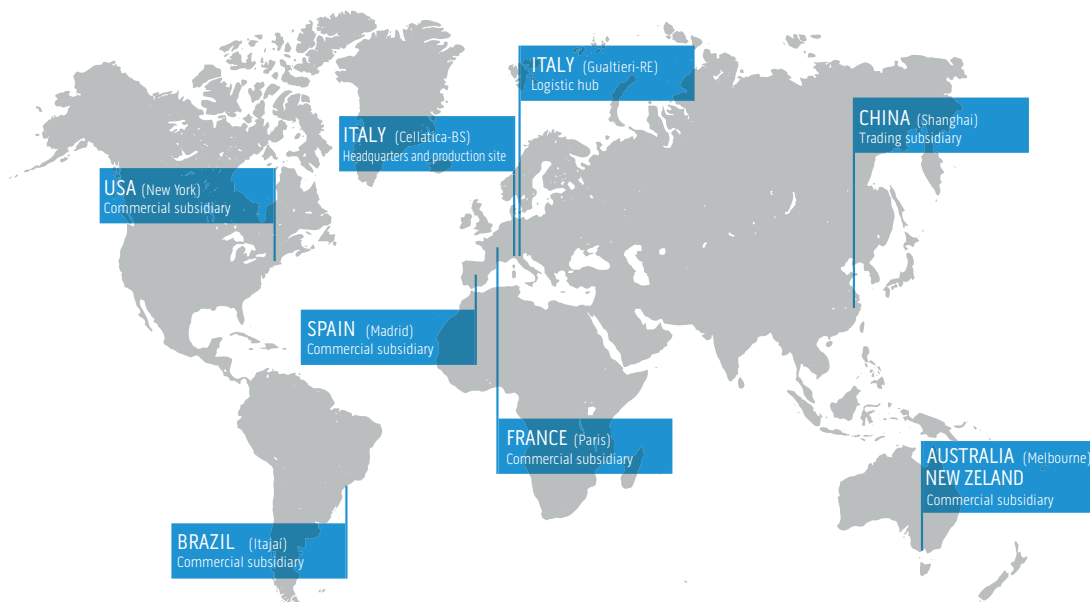
Every Olimpia Splendid product was born in the Brescia headquarters, where the R&D centre, 100% Italian, represents the beating heart of all the innovations and the rigorous mind that studies, tests and refines every project.

With the help of state-of-the-art modelling software and in-house test labs – equipped with 3D printers, calorimetric chambers, anechoic chambers, as well as with long-term durability test chambers – our team of engineers and designers follows the development of the Olimpia Splendid solutions, going beyond the regulations and standards. To ensure, throughout the entire life cycle of the product, only the best performance, always.

International brand

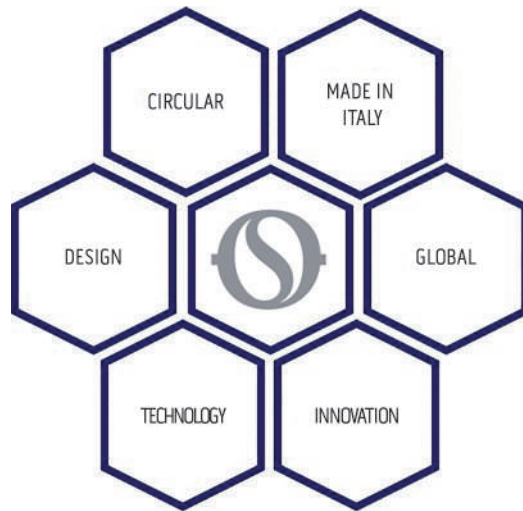
Olimpia Splendid is a group with an international vocation. Because we seek, through a direct presence in the markets, to always be closer to the needs of our customers.

The international dimension of Olimpia Splendid is represented by the offices of the 6 foreign commercial branches, as well as by the widespread network of distributors that extends throughout more than 50 countries worldwide. The export sector, which already accounts for 50% of the group's total turnover, is a component of the constantly growing revenues.



Developers of new technologies for a better tomorrow

Olimpia Splendid technological innovation is now oriented towards the search for new solutions that will reduce the environmental impact of the solutions for indoor comfort. A daily and concrete commitment to a sustainable future, which translates – today – into the offer of heating, air conditioning and air treatment products powered exclusively by electricity, which use technologies that are among the most efficient in terms of consumption and reclaimed coolant gases, with low GWP or natural coolants.



Actors of a circular economy

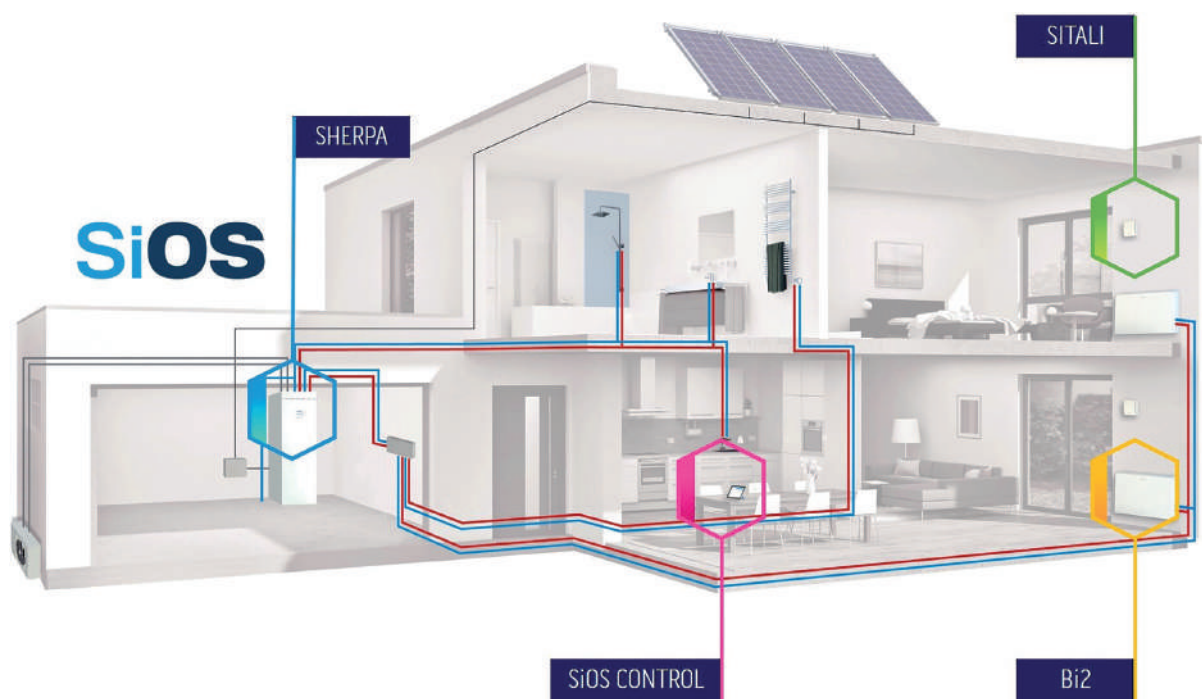
At Olimpia Splendid we have started to apply the principles of a circular economy, based on the reuse of raw materials that, instead of being disposed of, are regenerated so as to acquire a new life. Already a founding member of two important consortia for the management and recovery of waste deriving from the disposal of air conditioners and small appliances, since 2020, Olimpia Splendid has expanded its attention in this matter, from the management of the “end of life” to the moment of the manufacturing of the new product. The result is the first residential air conditioner with 100% reclaimed R410A gas: a coolant gas recovered from existing air conditioning systems and then subjected to an industrial process that returns it to a state where it is identical to the new coolant gas.

An initiative born with a dual value. On the one hand, reducing the environmental impact of the product. On the other hand, raising public awareness of a new virtuous behaviour, stimulating other producers to follow our example, in order to increase the demand for reclaimed gases and stimulate the circular economy in the world of heating and air conditioning.



Olimpia Splendid integrated systems

The next generation plant for low-consumption buildings and energy requalification



A yearlong cycle of climate control

The Integrated Systems Olimpia Splendid deliver heating, cooling, dehumidification, air treatment and the production of domestic hot water. Everything necessary for home comfort, 365 days a year, all included in a single plant: simple, efficient, integrated.

The plant solution of Olimpia Splendid simplifies the design and installation operations, as well as the use and maintenance interventions of all the products for home comfort. The generators have high energy efficiency and the terminals have high performance, for complete indoor comfort that also has an eye on consumption. Moreover, thanks to the new building management system, SiOS Control, the management is total and integrated.



Plant operation

- LOW-TEMPERATURE RADIATION
- VENTILATED HEATING
- COOLING
- DEHUMIDIFICATION
- AIR FILTERING
- DHW UP TO 75°C
- AIR EXCHANGE
- MOULD PREVENTION
- REMOTE PLANT SUPERVISION

Heat pumps, for maximum efficiency

The evolution of buildings and their envelopes has also determined a change in the new plants. Heat pumps are increasingly becoming the protagonists of the plant as the sole generator, able to optimise energy consumption and promote the use of renewable energy sources.

Olimpia Splendid offers a range of solutions that are specific for every climate, distinguished by their extremely high energy efficiency (up to A+++), and maximum reliability, thanks also to a patented technology for the simultaneous production of comfort and DHW up to 75°C.



Fan coil radiators as new plant terminals

The fan coil radiators offer year-round comfort (heating and cooling) that can be compared to that of floor heating, with always lower installation costs and a more economical management of the plant in the warmer climate zones.

First company to introduce slim and ultraslim fan coil radiators on the market, specifically for residential plants, Olimpia Splendid still today stands out in the segment for a range of solutions entirely designed and manufactured in Italy and with a patented radiant technology, which allows the static operation of the machine during heating, for complete absence of noise.



CMV for improved indoor quality of air

With the evolution of building envelopes, air exchange and air treatment have become necessary for the correct maintenance of the quality of air of indoor settings. Should the simple opening of windows not be possible or sufficient, the solutions of Controlled Mechanical Ventilation offer a valid support.

Olimpia Splendid proposes decentralised solutions with simplified installation, equipped with CE brushless drives, all with significantly reduced energy consumption.



BMS for the centralised management of the plant

The centralised management of the plant allows optimisation and greater efficiency according to our habits and ways of living in our buildings.

SiOS Control is the new Building Management System by Olimpia Splendid that allows a simple, intuitive and customisable management of the plant. It is possible to control the individual components: heat pump, fan coil convectors and fan coil radiators, floor heating, towel warmers and CMV. The management can take place either on site or remotely, through the web platform (Cloud) or mobile application.

**SHERPA
TOWER S2**
Split heat pump,
with integrated 200L storage tank



SHERPA S2
Split heat pump



**SHERPA
AQUADUE TOWER S2**
Multi-purpose split heat pump,
with integrated 150L storage tank



**SHERPA
AQUADUE S2**
Multi-purpose split heat pump



Sic
Integrated
Olimpia

**SHERPA
COLD**
Split heat pump for cold climates



**SHERPA
MONOBLOC S1 E**
Monoblock heat pump



DS[®]

Systems
Splendid

SITALI

Controlled Mechanical Ventilation
decentralised and with **heat recovery**



Bi2 WALL Ci2 WALL

High wall fan coil units



Bi2 AIR

Ultraslim and slim fan coils
with **integral design** and **multiset control**



Bi2 SMART

Total metal and **total flat** fan coil



SiOS CONTROL

Building **management** system



Bi2 NAKED

Ultraslim and slim **recessed** fan coil



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ONLINE SERVICES

All of the documentation necessary for installation and operation of our machines can be found in the download section of our website Olimpiasplendid.com

PRODUCTS DOCUMENTATION

Should you need additional information regarding our products, consult the "Products Documentation" section. Here, you will find energy labels, templates and installation manuals and product catalogues.

SELECTION SOFTWARE

On Olimpiasplendid.com/private-documentation it is possible to access the selection software OS Voyager to check the operating conditions of our fan coil convectors and fan coil radiators.

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Sios[®]
CONTROL

BMS

The new Building
Management System by
Olimpia Splendid

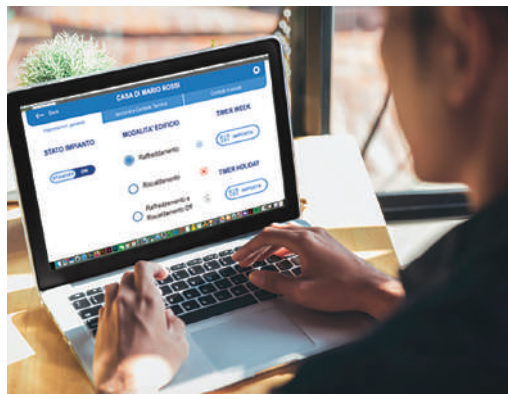
NEW

SiOS CONTROL

Central system management, locally or remotely

Complete and intuitive

SiOS Control is the new BMS (Building Management System) by Olimpia Splendid that allows simple management of the plant for heating, cooling, air treatment and domestic hot water. Through an intuitive graphical interface, that can be customised based on the characteristics of each environment, you can control individual system components: heat pumps, fan coil units and fan coil radiators, floor heating, towel warmers and CMV, from both the Olimpia Splendid range and other manufacturers*. For a truly complete control. Furthermore, with SiOS Control, you can even manage things remotely, through the web (Cloud) platform or a mobile application. Complete, intuitive and smart.



What can it manage?

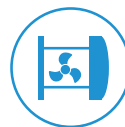
Sherpa range of heat pumps or third-party generators*



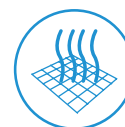
Bi2 and Ci2 range of fan coil radiators and fan coil units



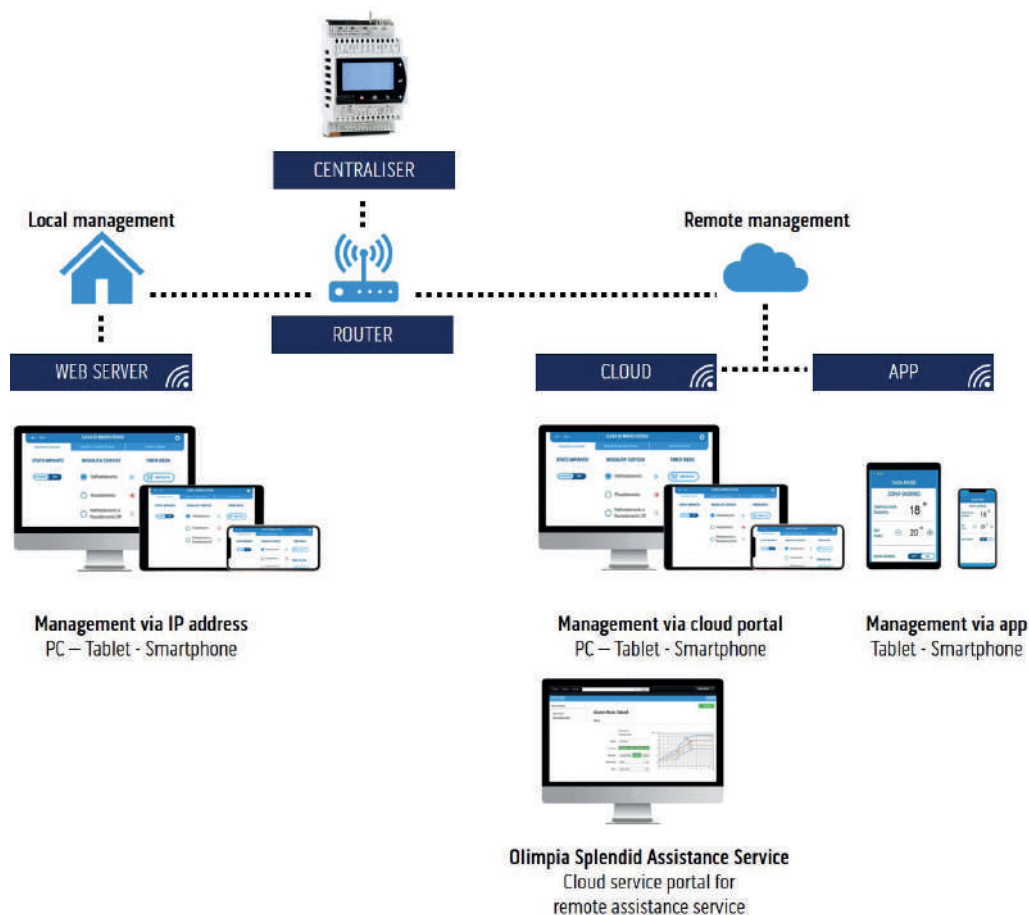
Sitali CMV range or third-party CMV*



Radiant floor (heat. and cool.) and towel warmer



How does it work?



*Requires prior check for compatibility

Type of control

DIRECT ZONE:

- up to 60 Bi2 fan coil units/fan coil radiator units and relative controls (divided up to a maximum of 15 independent environments, inclusive of direct zone and mixed zone);
- 1 heat pump from among Sherpa S2, Sherpa Aquadue S2, Sherpa Tower S2, Sherpa Aquadue Tower S2 and Sherpa Monobloc S1 E (or other third-party generators)*;
- up to 4 towel warmers, with relative thermostats;
- up to 4 Ci2 wall fan coil units;
- 1 direct zone circulator output;
- 1 outdoor air temperature probe.

MIXED ZONE:

- 2 mixed zone circulator outputs;
 - 2 mixer valve outputs;
 - 2 dehumidifier circulator outputs;
 - 2 mixed zone water temperature probes;
 - Up to 15 independent environments (inclusive of direct zone and mixed zone) with radiant floor plant for heating and cooling.
- CMV:
- 1 group outlet for Sitali SF150 S1 and Sitali SFE100 (or other third-party CMVs)*.

Simplified installation

Easy installation through a first guided configuration to be able to customise SiOS Control both to the characteristics of the plant and to those of the building in which it will be installed.

Customised environments

Possibility of creating customised environments in order to reproduce the layout of each individual building. Possibility of creating up to 15 total environments between direct zone (fan coil units) and mixed zone (radiant floor). Possibility of naming the environments and assigning dedicated icons to them.

Comfort management for every season

SiOS Control can manage cooling, heating, domestic hot water and air treatment. The intuitive graphic interface with icons changes colour based on the functions of the plant and whether or not the various environments are active or shut off.

Timer with scenarios

SiOS Control has weekly timers. It manages up to 4 timers and each individual timer can be set with 6 daily time ranges. For each time range there are 5 scenarios available. Economy, Comfort, Night are the pre-set scenarios, while the 2 Individual scenarios can be set directly by the user.

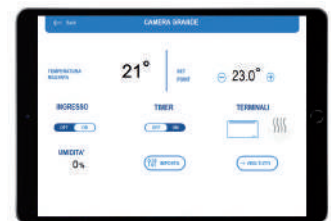
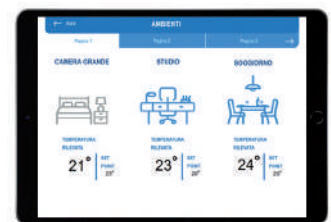
Simplified settings

With SiOS Control the user can change the water set point +/- 5°C, for greater flexibility of comfort control, avoiding changing the parameters set by the service centre on the heat pump.

*Requires prior check for compatibility

NOTE 1: The application for Tablets and Smartphones allows simplified management of the functions and is limited to the control of a maximum of 10 independent environments.

NOTE 2: Just the local use of the system through the web server allows one to increase the number of independent environments up to 50 dedicated to a single direct zone and up to 28 dedicated to a mixed zone, the number of Bi2 fan coil units/fan coil radiators can be extended to 199 units. For use with the extended limits, contact the company in writing at stc@olimpiaspplendid.it



MANAGEMENT

Only local management

Connecting the B0858 central control unit to an Access Point by means of a network cable, it is possible to manage SiOS Control remotely in the local Wi-Fi, through PCs, Tablets, Smartphones and a common internet browser.



Remote management (also local)

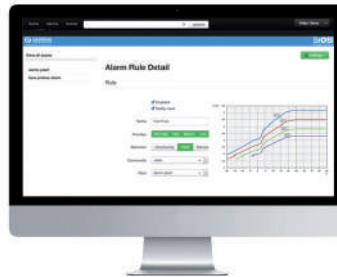
Connecting the B0858 central control unit to an internet router by means of a network cable, it is possible to manage SiOS Control remotely through the cloud, through PCs, Tablets, Smartphones and a common internet browser. In addition, for a simplified remote management, the SiOS Control App is available that assumes the main functions.









The remote use requires a two-year subscription that can be purchased in the dedicated section of the site Olimpiasplendit.it

Remote assistance

The Olimpia Splendid Service Centre, through the Cloud, will be able to carry out assistance to the plant and its machines even remotely, for a faster and more efficient service in case of plant problems or alarms.

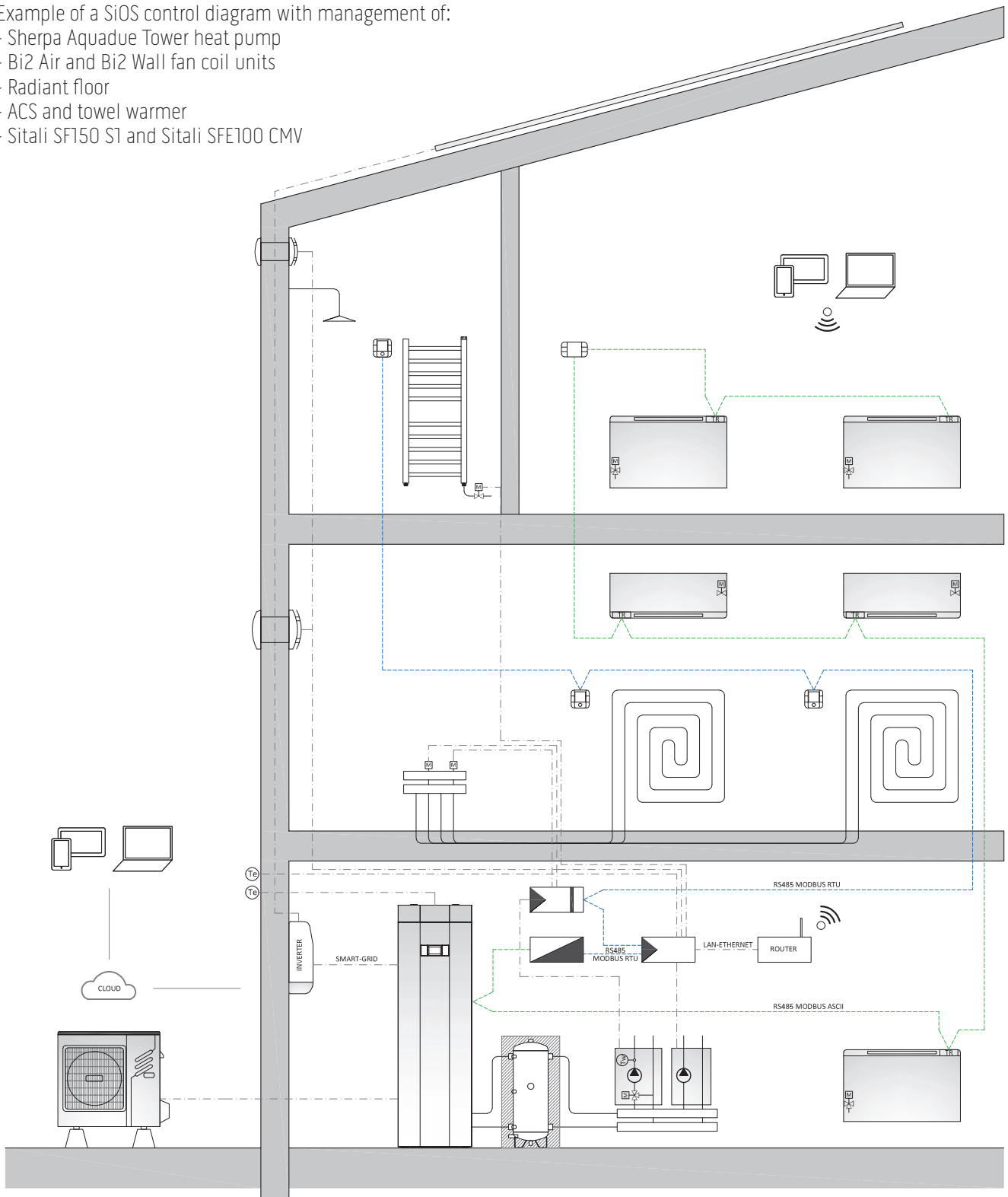


COMPONENTS

	CODE	DESCRIPTION
	B0858	SIOS CONTROL CENTRALISER The centraliser is the component necessary for all SiOS Control installations. It features a touch display, an output for the network cable and Modbus RTU 0-10V outputs, as well as relays for the various system components.
	B0859	EXPANSION UNIT KIT Expansion module necessary to control installations with mixed water zones. A single expansion controls up to 4 environments.
	B0860	WALL AMBIENT T-H PROBE KIT Wall thermostat necessary to control installations and/or environments with floor heating zones (hot and/or cold) and/or towel warmers. Shows the temperature and relative humidity.
	B0861	BUILT-IN AMBIENT T-H PROBE KIT Built-in thermostat necessary to control installations and/or environments with floor heating zones (hot and/or cold) and/or towel warmers. Shows the temperature and relative humidity.
	B0862	WATER TEMPERATURE PROBE KIT Water temperature probe necessary for installations with mixed water zones.
	B0863	RTU-ASCII FAN COIL SIGNAL CONVERTER KIT RTU-ASCII converter required for those installations where there are direct water zones (recommended to use one for every 50 terminals and no more than 500 meters of communication line).
	B0623	OUTDOOR AIR TEMPERATURE PROBE KIT Shielded probe to measure the outdoor air temperature

Example of a SiOS control diagram with management of:

- Sherpa Aquadue Tower heat pump
- Bi2 Air and Bi2 Wall fan coil units
- Radiant floor
- ACS and towel warmer
- Sitali SF150 S1 and Sitali SFE100 CMV



Note: the diagram only has the purpose of illustrating the system, for all the characteristics and connections, refer to the relative installation manuals

Legend:

	B0858	SIOS CENTRAL CONTROL UNIT
	B0859	EXPANSION UNIT KIT
	B0860	WALL AMBIENT T-H PROBE KIT
	B0861	BUILT-IN AMBIENT T-H PROBE KIT
	B0862	WATER TEMPERATURE PROBE KIT
	B0863	RTU-ASCII FAN COIL SIGNAL CONVERTER KIT
	B0623	OUTDOOR AIR TEMPERATURE PROBE KIT



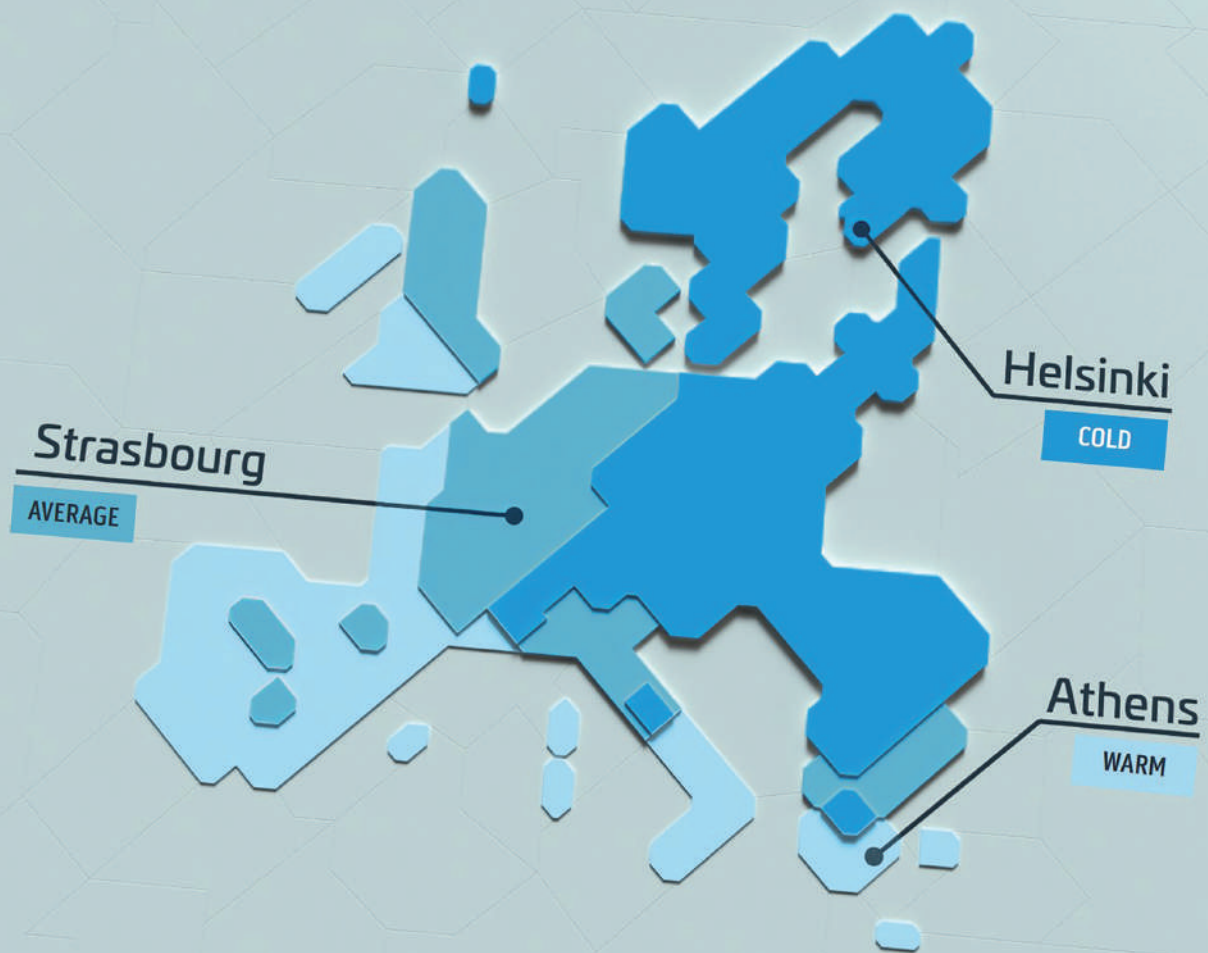
OLYMPIA
SPLENDID



SHERPA

HEAT PUMPS

Innovative and specific solutions for each climatic zone



Specific solutions for each European climate

To achieve maximum efficiency and reliability in every project

Warm climatic zones, Average and Cold

The relevant European regulations identify, within the reference territory, 3 different climatic zones, in which the project temperatures relating to indoor comfort systems are profoundly different. A comparative study commissioned by Olimpia Splendid has shown how each of these climates determines a different distribution of the thermal and cooling load inside buildings and a specific behaviour of the heat pumps.

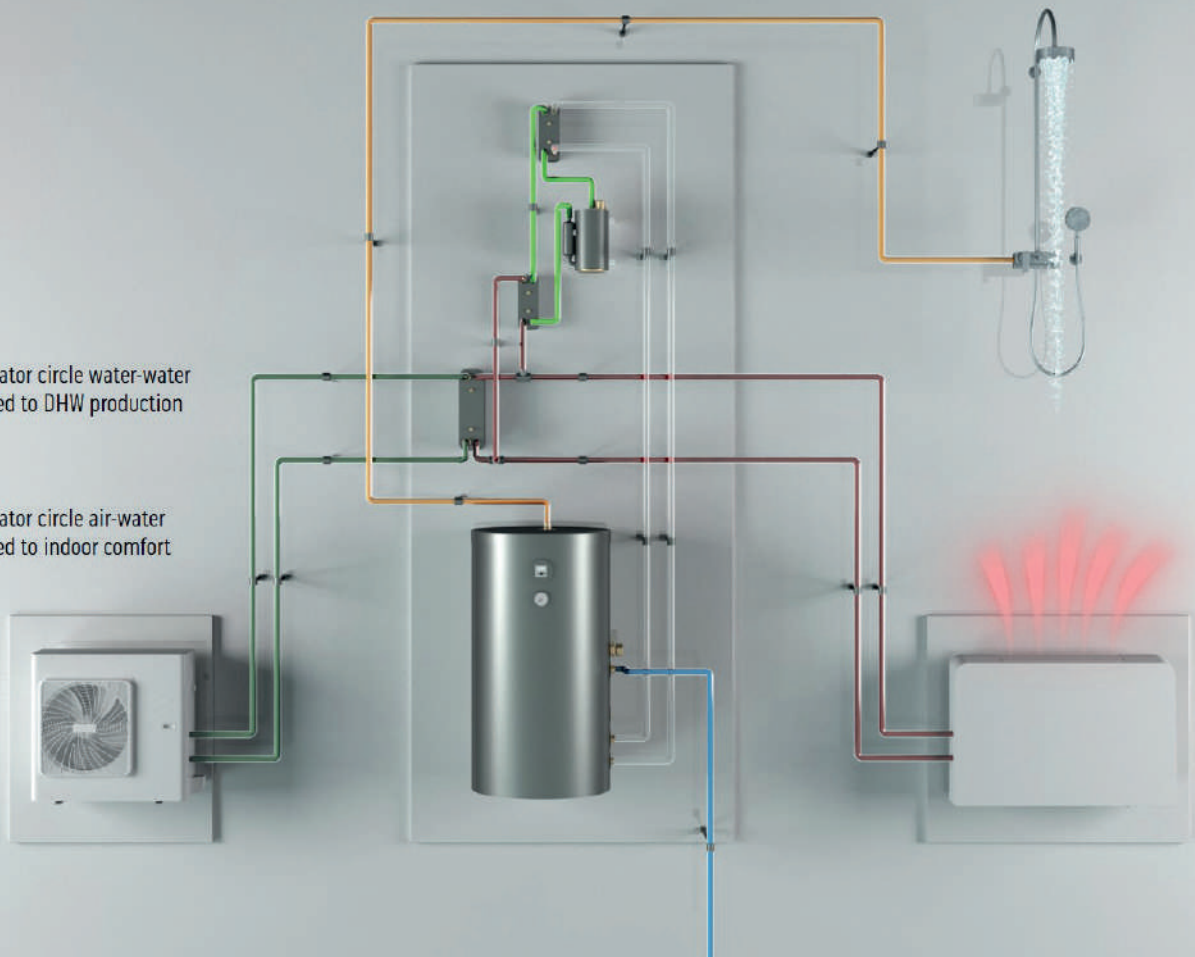
Specific configurations to maximise efficiency and comfort

To optimize the efficiency and output power of the heat pumps according to the external temperature, Olimpia Splendid offers the possibility to choose between different types of heat pumps, specially designed for the reference European climates.



● Refrigerator circle water-water
dedicated to DHW production

● Refrigerator circle air-water
dedicated to indoor comfort



Aquadue patented technology

Innovation that ensures simultaneously comfort and DHW



Dual cooling cycle

In Olimpia Splendid heat pumps equipped with Aquadue technology, the two interconnected cooler cycles make it possible to make the heating/cooling independent from the DHW production, allowing it to operate in parallel. A feature that avoids interruptions in the provision of home comfort.

Domestic Hot Water up to 75°C

The dual cooling cycle present in the Aquadue models also allows the production of DHW at a high temperature (up to 75°C), regardless of the external climatic conditions. Thus it is possible to reduce the volume of the storage tank up to 30% and to avoid highly energy-intensive anti-legionella cycles (normally carried out with the use of electric heating elements).

Coverage of the renewable quantity for the production of DHW

Thanks to the efficient management of heat, Aquadue technology facilitates the achievement, in buildings with a high energy class, of the coverage quantities from renewable energy (Italian Legislative Decree 28/2011) without the installation of additional devices.

Heat pumps range

+ 2021 PRODUCT INNOVATION
! OUT OF STOCK PRODUCT

		MULTI-PURPOSE		TRADITIONAL		
		INTEGRATED STORAGE TANK	EXTERNAL STORAGE TANK	INTEGRATED STORAGE TANK	EXTERNAL STORAGE TANK	
COMFORT + ACS	SPLIT	 <p>PAGE 28</p> <p>SHERPA AQUADUE TOWER S2 Dual cooling cycle DHW up to 75°C Integrated 150L storage tank</p> <p>INDOOR UNITS UI Sherpa Aquadue Tower S2 E Small (02044) + S2 Big (02045) +</p> <p>OUTDOOR UNITS UE Sherpa S2 E 4 (02001) + S2 E 6 (02002) + S2 E 8 (02003) + S2 E 10 (02004) + S2 12 (02005) + S2 14 (02006) + S2 16 (02007) + S2 12T (02008) + S2 14T (02009) + S2 16T (02010) +</p>	 <p>PAGE 22</p> <p>SHERPA AQUADUE S2 Dual cooling cycle DHW up to 75°C</p> <p>INDOOR UNITS UI Sherpa Aquadue S2 E Small (02042) + S2 Big (02043) +</p> <p>OUTDOOR UNITS UE Sherpa S2 E 4 (02001) + S2 E 6 (02002) + S2 E 8 (02003) + S2 E 10 (02004) + S2 12 (02005) + S2 14 (02006) + S2 16 (02007) + S2 12T (02008) + S2 14T (02009) + S2 16T (02010) +</p>	 <p>PAGE 40</p> <p>SHERPA TOWER S2 DHW at 60°C Integral 200L storage tank</p> <p>INDOOR UNITS UI Sherpa Tower S2 E Small (02046) + S2 Big (02047) +</p> <p>OUTDOOR UNITS UE Sherpa S2 E 4 (02001) + S2 E 6 (02002) + S2 E 8 (02003) + S2 E 10 (02004) + S2 12 (02005) + S2 14 (02006) + S2 16 (02007) + S2 12T (02008) + S2 14T (02009) + S2 16T (02010) +</p>	 <p>PAGE 34</p> <p>SHERPA S2 DHW at 60°C</p> <p>INDOOR UNITS UI Sherpa S2 E Small (02040) + S2 Big (02041) +</p> <p>OUTDOOR UNITS UE Sherpa S2 E 4 (02001) + S2 E 6 (02002) + S2 E 8 (02003) + S2 E 10 (02004) + S2 12 (02005) + S2 14 (02006) + S2 16 (02007) + S2 12T (02008) + S2 14T (02009) + S2 16T (02010) +</p>	 <p>PAGE 50</p> <p>SHERPA COLD DHW at 55°C Specific for cold climates</p> <p>INDOOR UNITS UI Sherpa Cold 10/10T/12T (02108) + 15/15T (02109) + 18T (02110) +</p> <p>OUTDOOR UNITS UE Sherpa Cold 10 (02100) + 10T (02101) + 12T (02102) + 15 (02103) + 15T (02104) + 18T (02105) +</p>
	MONOBLOCK				 <p>PAGE 56</p> <p>SHERPA MONOBLOC S1 E DHW at 60°C Twin Rotary Compressor</p> <p>Sherpa Monobloc S1 E 6 (02021) S1 E 8 (02022) S1 E 12 (02023) S1 E 12T (02024) S1 E 16 (02025) S1 E 16T (02026)</p>	

		MULTI-PURPOSE		TRADITIONAL		
		INTEGRATED STORAGE TANK	EXTERNAL STORAGE TANK	INTEGRATED STORAGE TANK	EXTERNAL STORAGE TANK	
ONLY DHW	BASE			 <p>PAGE 66</p> <p>SHERPA SHW DHW at 60°C</p> <p>Sherpa SHW 200 (01809) ! Sherpa SHW 300S (01810) !</p>		

	Description	Kit code	SHERPA AQUADUE S2	SHERPA AQUADUE TOWER S2	SHERPA S2	SHERPA TOWER S2	SHERPA COLD	SHERPA MONOBLOC STE	SHERPA SHW
CONTROLS AND ACCESSORIES KIT	3-way valve kit for domestic hot water	B0622			X			X	
	3-way valve kit for domestic hot water	B0916	standard	standard	X	standard		X	
	Kit thermal solar probe	B0917			X				
	Outdoor air temperature sensor kit	B0623	standard	standard	X	X			
	DHW boiler sensor kit	B0624	standard	standard	X	standard			
	1°F flow switch kit	B0841							X
	Kit temperature probe	B0842							X
	15m extension cord remote control panel kit (additional)	B0866						X	
STORAGE TANKS / PUFFER	Standard cylinder 200 L	01804	X		X		X see page 55	X	
	Standard cylinder 200 L	01805	X		X		X see page 55	X	
	Standard cylinder 200 L	01806	X		X		X see page 55	X	
	Hybrid HY cylinder 300 L	01807	X		X			X	
	Hybrid HYS solar cylinder 300 L	01808	X		X			X	
	Resistance for boiler 2 kW	B0618			X		X +B0910	X	
	Resistance for boiler 3 kW	B0666			X		X +B0910	X	
	Flange resistance kit	B0617			X		X	X	
	Thermal accumulation 50 L	01199	X	X	X	X		X	
	Thermal accumulation 100 L	01200	X	X	X	X	X see page 55	X	
ACCESSORIES KIT	Metal frame for touch panel recessed installation	B0899					X		
	100 m cable for Modbus touch panel connection	B0900					X		
	10m cable for UI-EU connection (set of 4 cables with pre-wired connectors)	B0901					X		
	20m cable for UI-EU connection (set of 4 cables with pre-wired connectors)	B0902					X		
	30m cable for UI-EU connection (set of 4 cables with pre-wired connectors)	B0903					X		
	Pair of h250 mm metal feet with small anti-vibration mounts (not compatible with cod. B0905).	B0904					X		
	Pair of 200 mm high rubber feet with anti-vibration function (not compatible with cod. B0904)	B0905					X		
	Aesthetic fan cover front grille (sizes 10, 10T and 12T)	B0906					X		
	Aesthetic fan cover front grille (sizes 15, 15T and 18T)	B0907					X		
	Rear metal mesh for battery protection (sizes 10, 10T and 12T)	B0908					X		
	Rear metal mesh for battery protection (sizes 15, 15T and 18T)	B0909					X		
	Integration kit - Relay for activation of storage tank or other electric heating element	B0910					X		
	DHW management kit - K1 relay, 3W 1"1/4" valve, Probe B3	B0911					X		
	Condensate drain pipe electric heating element	B0912					X		
	Fan grille to reduce noise 800mm diameter	B0913					X		
Acoustic insulation kit to reduce noise by 2dB	B0914					X			
Brass Y filter with 1" 1/4 connections and 2" body	B0915					X			

NEW

SHERPA AQUADUE S2

Multi-purpose split heat pump



Compatible with:



DHW AND COMFORT AT THE SAME TIME

The two interconnected refrigerator cycles allow the decoupling of the heating/cooling from the DHW production, enabling them to operate in parallel, avoiding thus interruptions in the domestic comfort supply.



75°C DOMESTIC HOT WATER

High temperature DHW storage allows a reduction of the boiler volume up to 30%, to heat bathroom heater radiators and avoids highly energyconsuming anti-legionella cycles that are normally performed through the use of electrical resistances.



LOW GWP GAS

In sizes up to 10 kW, it uses the R32 refrigerant, characterised by greater efficiency and a greenhouse effect reduced by almost 70% (compared to R410A).



TOUCH SCREEN USER INTERFACE

The control of Sherpa Aquadue, extremely flexible and configurable, is used to customise the intervention thresholds of the two cycles at the time of installation and the needs for comfort and DHW, as well as to optimise energy performance by managing operation of the dual cooling cycle.

FEATURES

Inverter air-water heat pump

Energy efficiency class in average climate heating up to: A+++ (35°C) and A++ (55°C)

Powers available: 4 Powers with refrigerant R32: 4-6-8-10 kW single-phase and 3 Powers with refrigerant R410A: 12-14-16 kW single-phase and three-phase

Production of DHW (Domestic Hot Water) at high temperature, up to 75°C.

DHW management: a water/water heat pump unit integrated in the internal unit supplies domestic hot water at high temperature regardless of the external climatic conditions.

Absolute continuity availability of DHW: guaranteed by the redundancy of the dual cooling cycle system

Anti-legionella cycles that can be avoided using the high temperature refrigeration cycle.

Double stage electric heating elements as standard: activation of single or double heating element to support the heat pump by means of a simple electronic control configuration. Each stage is activated according to the actual need for thermal power, in order to optimise electricity consumption (supplied disabled by default).

Configurable set points: two set points in cooling. Three set points in heating (one of which for DHW): the set points can also be selected via remote contact.

Holiday and weekly programmer: heating/cooling, DHW, night-time.

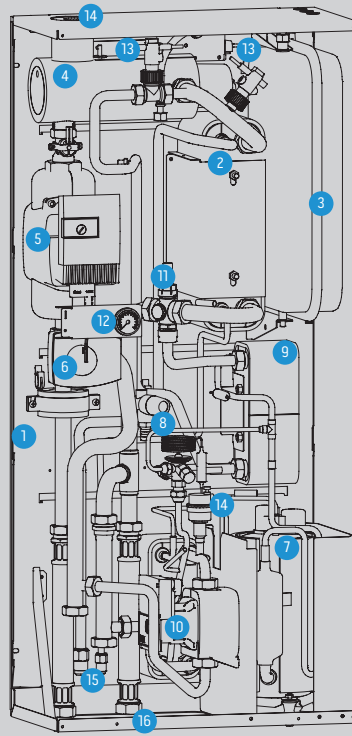
Climatic curves with external air temperature probe: two curves available, one for cooling and one for heating. The climatic curves are used to vary the temperature of the water supplying the system according to the external climatic conditions, adjusting the thermal needs of the building, in order to achieve energy savings.

Refrigerant gases: R32* or R410A* for the reversible circuit dedicated to air conditioning and R134a** for the high temperature circuit dedicated to the production of DHW.

* Non hermetically sealed equipment containing fluorinated gas with GWP equivalent 675 (R32) and 2088 (R410A)

** Non hermetically sealed equipment containing fluorinated gas with GWP equivalent 1430

1. Support structure
2. System primary circuit heat exchanger
3. System circuit expansion vessel
4. Electric heating elements manifold
5. Primary circuit electronic circulation pump
6. 3-way valve
7. DHW circuit compressor
8. DHW circuit expansion valve
9. DHW circuit heat exchanger
10. DHW circuit electronic circulation pump
11. Flow regulator
12. Pressure gauge
13. Flow switch
14. Automatic safety vent
15. Refrigeration connections
16. Hydraulic connections (system and external storage tank)

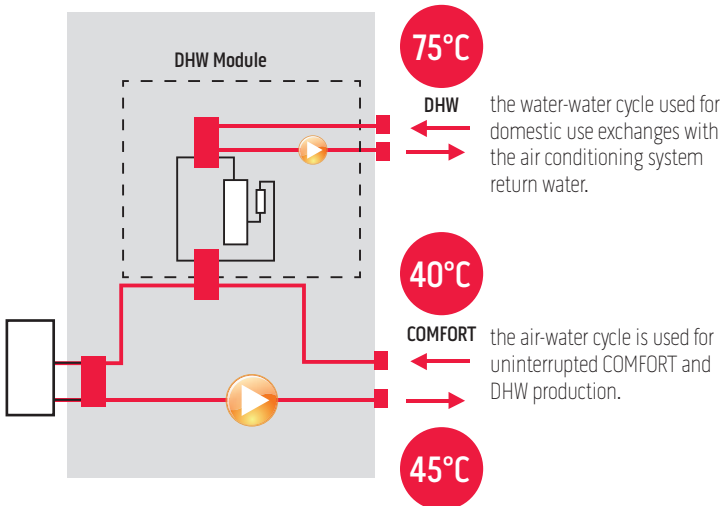


STANDARD EQUIPMENT:
 - External air probe kit
 - DHW storage tank sensor kit

HEATING MODE

+ DHW at high temperature

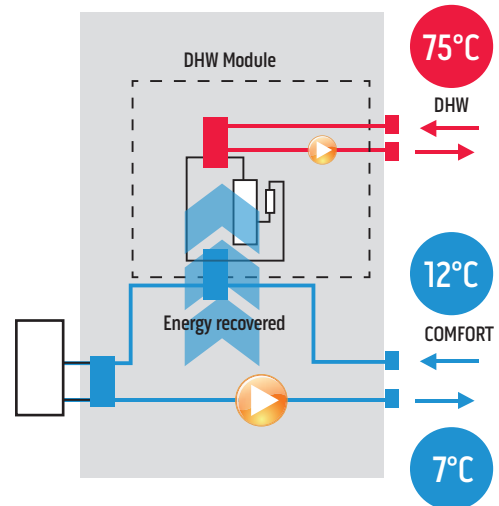
DHW production is guaranteed independently from the outside temperature for an optimal operation throughout the year, which is not guaranteed by traditional heat pumps.



COOLING MODE

+ DHW at a high temperature with energy recovery

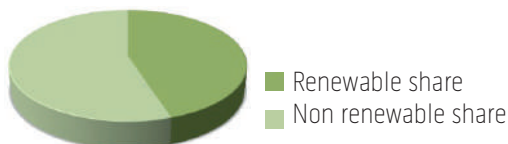
The energy normally dissipated outside is recovered and used to produce DHW up to 75 °C.



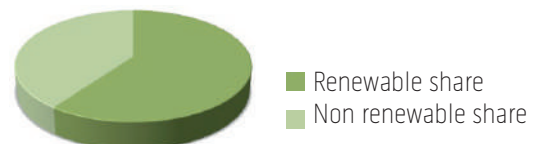
RENEWABLE SHARE COVERAGE FOR DHW PRODUCTION WITHOUT ADDITIONAL EQUIPMENT - RES DIRECTIVE

AQUADUE technology thanks to efficient heat management guarantees, in buildings of a high energy class, the coverage share from renewable energy (Legislative Decree 28/2011) without the installation of additional devices.

Traditional heat pump



Sherpa AQUADUE® heat pump



Size		SHERPA AQUADUE S2 E - Single-phase R32																	
		4			6			8			10								
INDOOR UNIT CODE		02042			02042			02042			02042								
OUTDOOR UNIT CODE		02001			02002			02003			02004								
Compressor frequency		Minimum			Nominal			Maximum			Minimum			Nominal			Maximum		
Precise performance	Heating output	a7/6 - w30/35	(a)		kW	2.08	4.2	5.59	3.22	6.5	8.66	4.17	8.4	11.19	4.96	10	13.32		
	COP	a7/6 - w30/35	(a)		W/W	-	5.15	-	-	4.85	-	-	4.85	-	-	4.65	-		
	Heating output	a2/1 - w30/35	(b)		kW	2.08	4.25	5.38	2.74	5.58	7.06	3.48	7.1	8.99	4.04	8.25	10.44		
	COP	a2/1 - w30/35	(b)		W/W	-	3.9	-	-	3.88	-	-	3.88	-	-	3.6	-		
	Heating output	a-7/-8 - w30/35	(c)		kW	2.23	4.8	5.23	2.79	6	6.53	3.28	7.05	7.67	3.81	8.2	8.93		
	COP	a-7/-8 - w30/35	(c)		W/W	-	3	-	-	2.94	-	-	3.04	-	-	2.95	-		
	Heating output	a-15/-16 - w30/35	(d)		kW	2.17	4.67	5.08	2.26	4.86	5.29	3.25	6.99	7.61	3.25	6.99	7.61		
	COP	a-15/-16 - w30/35	(d)		W/W	-	2.3	-	-	2.27	-	-	2.34	-	-	2.34	-		
	Heating output (fancoils)	a7/6 - w40/45	(f)		kW	2.08	4.2	5.59	3.15	6.35	8.46	3.99	8.05	10.72	4.89	9.85	13.12		
	COP (fancoils)	a7/6 - w40/45	(f)		W/W	-	3.65	-	-	3.64	-	-	3.73	-	-	3.62	-		
	Heating output (fancoils)	a2/1 - w40/45	(g)		kW	2.11	4.3	5.44	2.77	5.65	7.15	3.68	7.5	9.49	3.9	7.95	10.06		
	COP (fancoils)	a2/1 - w40/45	(g)		W/W	-	3.05	-	-	3.02	-	-	3.15	-	-	3.04	-		
	Heating output (fancoils)	a-7/-8 - w40/45	(h)		kW	1.93	4.15	4.52	2.56	5.5	5.99	3.09	6.65	7.24	3.63	7.8	8.49		
	COP (fancoils)	a-7/-8 - w40/45	(h)		W/W	-	2.39	-	-	2.42	-	-	2.45	-	-	2.41	-		
	Heating output (fancoils)	a-15/-16 - w40/45	(i)		kW	1.92	4.14	4.51	2	4.31	4.69	2.81	6.05	6.59	2.81	6.05	6.59		
	COP (fancoils)	a-15/-16 - w40/45	(i)		W/W	-	1.79	-	-	1.77	-	-	1.92	-	-	1.92	-		
	Cooling power	a35 - w23/18	(l)		kW	2.31	4.3	5.27	3.46	6.45	7.91	4.48	8.35	10.24	5.47	10.2	12.51		
	EER	a35 - w23/18	(l)		W/W	-	5.6	-	-	4.88	-	-	4.67	-	-	4.25	-		
Cooling output (fancoils)	a35 - w12/7	(m)		kW	2.41	4.5	5.52	3.49	6.5	7.97	3.96	7.38	9.05	4.37	8.15	10			
EER (fancoils)	a35 - w12/7	(m)		W/W	-	3.32	-	-	2.95	-	-	3.02	-	-	2.95	-			
Efficiencies	Energy efficiency class in water heating 35°C	Warmer Climate				A+++			A+++			A+++			A+++				
	SCOP	Warmer Climate				6.52			6.52			6.69			6.69				
	ηs (Seasonal efficiency for space heating)	Warmer Climate		ηs %		257.7			257.7			264.6			264.6				
	Energy efficiency class in water heating 35°C	Average Climate				A+++			A+++			A+++			A+++				
	SCOP	Average Climate				4.77			4.77			4.79			4.79				
	ηs (Seasonal efficiency for space heating)	Average Climate		ηs %		187.7			187.7			188.5			188.5				
	Energy efficiency class in water heating 35°C	Cold Climate				A++			A++			A++			A++				
	SCOP	Cold Climate				4.06			4.06			4.01			4.01				
	ηs (Seasonal efficiency for space heating)	Cold Climate		ηs %		159.5			159.5			157.5			157.5				
	Energy efficiency class in water heating 55°C	Warmer Climate				A+++			A+++			A+++			A+++				
	SCOP	Warmer Climate				4.28			4.28			4.29			4.29				
	ηs (Seasonal efficiency for space heating)	Warmer Climate		ηs %		168.2			168.2			168.5			168.5				
	Energy efficiency class in water heating 55°C	Average Climate				A++			A++			A++			A++				
	SCOP	Average Climate				3.34			3.34			3.28			3.28				
	ηs (Seasonal efficiency for space heating)	Average Climate		ηs %		130.6			130.6			128.0			128.0				
	Energy efficiency class in water heating 55°C	Cold Climate				A+			A+			A+			A+				
	SCOP	Cold Climate				2.77			2.77			2.66			2.66				
	ηs (Seasonal efficiency for space heating)	Cold Climate		ηs %		107.9			107.9			103.5			103.5				
Noise level	Indoor unit sound power					41			41			41			41				
	Indoor unit sound pressure		(n)			35			35			35			35				
	Outdoor unit sound power (nominal)					61			62			63			65				
	Outdoor unit sound pressure (nominal)		(o)			38			39			40			42				
Electrical data	System circulator absorption				W	3 - 87			3 - 87			3 - 87			3 - 87				
	Internal unit electrical power supply				V/ph/Hz	220-240/1/50			220-240/1/50			220-240/1/50			220-240/1/50				
	Maximum current absorbed indoor unit with additional active heating elements				A	18.00			18.00			18.00			18.00				
	Maximum power absorbed indoor unit with additional active heating elements				kW	4.05			4.05			4.05			4.05				
	Additional electric heating elements				kW	1.5+1.5			1.5+1.5			1.5+1.5			1.5+1.5				
	External unit electrical power supply				V/ph/Hz	220-240/1/50			220-240/1/50			220-240/1/50			220-240/1/50				
	Outdoor unit maximum absorbed current				A	14			14			19			19				
	Outdoor unit maximum absorbed power				kW	2.65			2.65			3.8			3.8				
Cooling circuit	Compressor type					Twin Rotary DC Inverter 4 poles			Twin Rotary DC Inverter 4 poles			Twin Rotary DC Inverter 6 poles			Twin Rotary DC Inverter 6 poles				
	Refrigerant inlet connection diameter				"	1/4"-5/8"			1/4"-5/8"			3/8"-5/8"			3/8"-5/8"				
	Coolant gas		(p)			R32			R32			R32			R32				
	Global warming potential				GWP	675			675			675			675				
	Coolant gas load				kg	1.55			1.55			1.65			1.65				
	Refrigerant piping length limit	min - max				2 - 29			2 - 29			2 - 30			2 - 30				
Hydraulic data	Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018	max	(q)			29			29			20			20				
	Drinking water - DHW hydraulic connections				"	1"			1"			1"			1"				
Secondary DHW cooling circuit	System expansion valve capacity				l	8			8			8			8				
	DHW circuit heating capacity	w35 - w55	(r)		kW	2.15			2.15			2.15			2.15				
	COP DHW circuit	w35 - w55	(r)		W/W	3.12			3.12			3.12			3.12				
	DHW circuit heating capacity	w12 - w55	(s)		kW	1.6			1.6			1.6			1.6				
	COP DHW circuit	w12 - w55	(s)		W/W	2.58			2.58			2.58			2.58				
	Sound power indoor unit in heating/cooling + DHW circuit				dB (A)	49			49			49			49				
	DHW circuit circulator absorption				W	3 - 43			3 - 43			3 - 43			3 - 43				
	DHW circuit coolant gas		(t)			R134a			R134a			R134a			R134a				
	DHW circuit global warming potential				GWP	1430			1430			1430			1430				
	DHW circuit coolant gas load				kg	0.35			0.35			0.35			0.35				

(a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C
(b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C
(c) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 30°C/35°C
(d) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 30°C/35°C
(f) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 40°C/45°C
(g) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C
(h) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 40°C/45°C
(i) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 40°C/45°C
(l) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C

(m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
(n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(o) Sound pressure values measured at a distance of 4 m in free field
(p) Non-airtightly sealed equipment containing fluorinated GAS
(q) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual
(r) Heating circuit water temperature 35°C / Output water temperature 55°C
(s) Heating circuit water temperature 12°C / Output water temperature 55°C
(t) Non-airtightly sealed equipment containing fluorinated GAS

Size		SHERPA AQUADUE S2 - Single-phase R410A											
		12			14			16					
INDOOR UNIT CODE		02043			02043			02043					
OUTDOOR UNIT CODE		02005			02006			02007					
Compressor frequency		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum			
Precise performance	Heating output	a7/6 - w30/35	(a)	kW	4.77	12.1	15.79	5.52	14	18.27	6.12	15.5	20.23
	COP	a7/6 - w30/35	(a)	W/W	-	4.42	-	-	4.13	-	-	4.06	-
	Heating output	a2/1 - w30/35	(b)	kW	3.63	9.22	11.51	4.34	11.03	13.77	4.6	11.68	14.59
	COP	a2/1 - w30/35	(b)	W/W	-	3.52	-	-	3.35	-	-	3.28	-
	Heating output	a-7/-8 - w30/35	(c)	kW	3.83	9.96	10.93	4.22	10.99	12.06	4.59	11.94	13.11
	COP	a-7/-8 - w30/35	(c)	W/W	-	2.8	-	-	2.7	-	-	2.64	-
	Heating output	a-15/-16 - w30/35	(d)	kW	2.27	5.9	6.48	2.53	6.58	7.22	2.79	7.26	7.97
	COP	a-15/-16 - w30/35	(d)	W/W	-	2.06	-	-	1.94	-	-	1.92	-
	Heating output (fancoils)	a7/6 - w40/45	(f)	kW	4.68	11.85	15.46	5.54	14.05	18.33	6.33	16.05	20.94
	COP (fancoils)	a7/6 - w40/45	(f)	W/W	-	3.41	-	-	3.19	-	-	3.19	-
	Heating output (fancoils)	a2/1 - w40/45	(g)	kW	3.65	9.26	11.56	4.55	11.55	14.42	4.64	11.78	14.71
	COP (fancoils)	a2/1 - w40/45	(g)	W/W	-	2.77	-	-	2.74	-	-	2.73	-
	Heating output (fancoils)	a-7/-8 - w40/45	(h)	kW	3.65	9.51	10.44	4.37	11.38	12.49	4.39	11.42	12.54
	COP (fancoils)	a-7/-8 - w40/45	(h)	W/W	-	2.22	-	-	2.18	-	-	2.17	-
	Heating output (fancoils)	a-15/-16 - w40/45	(i)	kW	1.92	5.01	5.5	2.15	5.59	6.14	2.37	6.17	6.77
	COP (fancoils)	a-15/-16 - w40/45	(i)	W/W	-	1.66	-	-	1.57	-	-	1.55	-
Efficiencies	Cooling power	a35 - w23/18	(l)	kW	5.51	11.8	14.05	6.07	13	15.48	6.54	14	16.67
	EER	a35 - w23/18	(l)	W/W	-	4.45	-	-	4.02	-	-	3.87	-
	Cooling output (fancoils)	a35 - w12/7	(m)	kW	5.15	11.02	13.13	5.83	12.49	14.88	6	12.85	15.3
	EER (fancoils)	a35 - w12/7	(m)	W/W	-	2.64	-	-	2.46	-	-	2.38	-
	Energy efficiency class in water heating 35°C	Warmer Climate				A+++			A+++			A+++	
	SCOP	Warmer Climate				6.16			5.31			5.28	
	ηs (Seasonal efficiency for space heating)	Warmer Climate		ηs %		245.0			211.0			210.0	
	Energy efficiency class in water heating 35°C	Average Climate				A+++			A++			A++	
	SCOP	Average Climate				4.41			4.23			3.96	
	ηs (Seasonal efficiency for space heating)	Average Climate		ηs %		175.0			168.0			157.0	
	Energy efficiency class in water heating 35°C	Cold Climate				A+			A+			A+	
	SCOP	Cold Climate				3.58			3.33			3.41	
	ηs (Seasonal efficiency for space heating)	Cold Climate		ηs %		142.0			132.0			135.0	
	Energy efficiency class in water heating 55°C	Warmer Climate				A+++			A+++			A+++	
	SCOP	Warmer Climate				4.33			4.18			4.51	
	ηs (Seasonal efficiency for space heating)	Warmer Climate		ηs %		172.0			166.0			179.0	
Energy efficiency class in water heating 55°C	Average Climate				A++			A++			A++		
SCOP	Average Climate				3.21			3.23			3.21		
ηs (Seasonal efficiency for space heating)	Average Climate		ηs %		127.0			128.0			127.0		
Energy efficiency class in water heating 55°C	Cold Climate				A+			A+			A+		
SCOP	Cold Climate				2.81			2.81			2.81		
ηs (Seasonal efficiency for space heating)	Cold Climate		ηs %		111.0			111.0			111.0		
Noise level	Indoor unit sound power			dB (A)				41			41		
	Indoor unit sound pressure		(n)	dB (A)				35			35		
	Outdoor unit sound power (nominal)			dB (A)				69			71		
	Outdoor unit sound pressure (nominal)		(o)	dB (A)				46			48		
Electrical data	System circulator absorption			W				8 - 140			8 - 140		
	Internal unit electrical power supply			V/ph/Hz				220-240/1/50			220-240/1/50		
	Maximum current absorbed indoor unit with additional active heating elements			A				31.00			31.00		
	Maximum power absorbed indoor unit with additional active heating elements			kW				7.05			7.05		
	Additional electric heating elements			kW				3,0+3,0			3,0+3,0		
	External unit electrical power supply			V/ph/Hz				220-240/1/50			220-240/1/50		
	Outdoor unit maximum absorbed current			A				27			27		
	Outdoor unit maximum absorbed power			kW				6			6		
Cooling circuit	Compressor type							Twin Rotary DC Inverter 6 poles			Twin Rotary DC Inverter 6 poles		
	Refrigerant inlet connection diameter			"				3/8"-5/8"			3/8"-5/8"		
	Coolant gas		(p)					R410A			R410A		
	Global warming potential			GWP				2088			2088		
	Coolant gas load			kg				3.9			3.9		
Refrigerant piping length limit	min - max							2 - 50			2 - 50		
Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018	max	(q)						-			-		
Hydraulic data	Drinking water - DHW hydraulic connections							1"			1"		
	System expansion valve capacity			l				8			8		
Secondary DHW cooling circuit	DHW circuit heating capacity	w35 - w55	(r)	kW				2.15			2.15		
	COP DHW circuit	w35 - w55	(r)	W/W				3.12			3.12		
	DHW circuit heating capacity	w12 - w55	(s)	kW				1.6			1.6		
	COP DHW circuit	w12 - w55	(s)	W/W				2.58			2.58		
	Sound power indoor unit in heating/cooling + DHW circuit				dB (A)				49			49	
	DHW circuit circulator absorption				W			3 - 43			3 - 43		
	DHW circuit coolant gas		(t)					R134a			R134a		
	DHW circuit global warming potential				GWP			1430			1430		
DHW circuit coolant gas load				kg			0.35			0.35			

(a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C
(b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C
(c) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 30°C/35°C
(d) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 30°C/35°C
(f) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 40°C/45°C
(g) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C
(h) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 40°C/45°C
(i) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 40°C/45°C
(l) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C

(m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
(n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(o) Sound pressure values measured at a distance of 4 m in free field
(p) Non-airtightly sealed equipment containing fluorinated GAS
(q) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual
(r) Heating circuit water temperature 35°C / Output water temperature 55°C
(s) Heating circuit water temperature 12°C / Output water temperature 55°C
(t) Non-airtightly sealed equipment containing fluorinated GAS

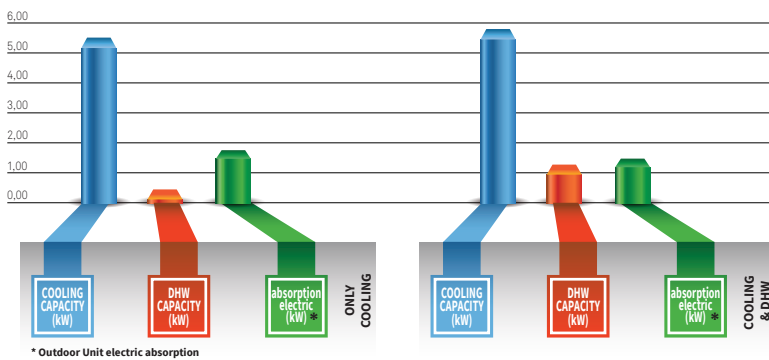
Size		SHERPA AQUADUE S2 - Three-phase R410A											
		12T			14T			16T					
INDOOR UNIT CODE		02043			02043			02043					
OUTDOOR UNIT CODE		02008			02009			02010					
Compressor frequency		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum			
Precise performance	Heating output	a7/6 - w30/35	(a)	kW	4.77	12.1	15.79	5.52	14	18.27	6.12	15.5	20.23
	COP	a7/6 - w30/35	(a)	W/W	-	4.53	-	-	4.31	-	-	4.19	-
	Heating output	a2/1 - w30/35	(b)	kW	3.6	9.14	11.41	4.29	10.91	13.62	4.31	10.95	13.67
	COP	a2/1 - w30/35	(b)	W/W	-	3.6	-	-	3.42	-	-	3.39	-
	Heating output	a-7/-8 - w30/35	(c)	kW	3.72	9.69	10.64	4.31	11.21	12.31	4.32	11.25	12.35
	COP	a-7/-8 - w30/35	(c)	W/W	-	2.75	-	-	2.66	-	-	2.64	-
	Heating output	a-15/-16 - w30/35	(d)	kW	2.38	6.19	6.79	2.74	7.13	7.83	2.93	7.62	8.36
	COP	a-15/-16 - w30/35	(d)	W/W	-	2.17	-	-	2.09	-	-	2.05	-
	Heating output (fancoils)	a7/6 - w40/45	(f)	kW	4.7	11.91	15.54	5.48	13.99	18.14	6.13	15.53	20.26
	COP (fancoils)	a7/6 - w40/45	(f)	W/W	-	3.44	-	-	3.3	-	-	3.18	-
	Heating output (fancoils)	a2/1 - w40/45	(g)	kW	3.65	9.26	11.56	4.51	11.46	14.31	4.97	12.62	15.76
	COP (fancoils)	a2/1 - w40/45	(g)	W/W	-	2.8	-	-	2.7	-	-	2.68	-
	Heating output (fancoils)	a-7/-8 - w40/45	(h)	kW	3.73	9.7	10.65	4.38	11.4	12.51	4.39	11.44	12.56
	COP (fancoils)	a-7/-8 - w40/45	(h)	W/W	-	2.26	-	-	2.17	-	-	2.15	-
	Heating output (fancoils)	a-15/-16 - w40/45	(i)	kW	2.02	5.27	5.78	2.33	6.06	6.65	2.49	6.48	7.11
	COP (fancoils)	a-15/-16 - w40/45	(i)	W/W	-	1.74	-	-	1.67	-	-	1.64	-
Cooling power	a35 - w23/18	(l)	kW	5.51	11.8	14.05	6.45	13.8	16.44	6.87	14.7	17.51	
EER	a35 - w23/18	(l)	W/W	-	4.59	-	-	4.21	-	-	3.9	-	
Cooling output (fancoils)	a35 - w12/7	(m)	kW	5.72	12.25	14.59	5.83	13.24	14.88	6.27	13.43	16	
EER (fancoils)	a35 - w12/7	(m)	W/W	-	2.69	-	-	2.51	-	-	2.41	-	
Efficiencies	Energy efficiency class in water heating 35°C	Warmer Climate			A+++			A+++			A+++		
	SCOP	Warmer Climate			6.41			6.53			6.13		
	ηs (Seasonal efficiency for space heating)	Warmer Climate	ηs %		255.0			260.0			244.0		
	Energy efficiency class in water heating 35°C	Average Climate			A+++			A+++			A++		
	SCOP	Average Climate			4.63			4.51			4.33		
	ηs (Seasonal efficiency for space heating)	Average Climate	ηs %		184.0			179.0			172.0		
	Energy efficiency class in water heating 35°C	Cold Climate			A++			A++			A+		
	SCOP	Cold Climate			3.96			3.78			3.61		
	ηs (Seasonal efficiency for space heating)	Cold Climate	ηs %		157.0			150.0			143.0		
	Energy efficiency class in water heating 55°C	Warmer Climate			A+++			A+++			A+++		
	SCOP	Warmer Climate			4.13			4.21			4.21		
	ηs (Seasonal efficiency for space heating)	Warmer Climate	ηs %		164.0			167.0			167.0		
	Energy efficiency class in water heating 55°C	Average Climate			A++			A++			A++		
	SCOP	Average Climate			3.23			3.28			3.28		
	ηs (Seasonal efficiency for space heating)	Average Climate	ηs %		128.0			130.0			130.0		
	Energy efficiency class in water heating 55°C	Cold Climate			A+			A+			A+		
SCOP	Cold Climate			2.78			2.73			2.76			
ηs (Seasonal efficiency for space heating)	Cold Climate	ηs %		110.0			108.0			109.0			
Noise level	Indoor unit sound power				41			41			41		
	Indoor unit sound pressure		(n)		35			35			35		
	Outdoor unit sound power (nominal)				70			72			72		
	Outdoor unit sound pressure (nominal)		(o)		47			49			49		
Electrical data	System circulator absorption				W			8 - 140			8 - 140		
	Internal unit electrical power supply				V/ph/Hz			220-240/1/50			220-240/1/50		
	Maximum current absorbed indoor unit with additional active heating elements				A			31.00			31.00		
	Maximum power absorbed indoor unit with additional active heating elements				kW			7.05			7.05		
	Additional electric heating elements				kW			3,0+3,0			3,0+3,0		
	External unit electrical power supply				V/ph/Hz			380-415/3/50			380-415/3/50		
	Outdoor unit maximum absorbed current				A			9			9		
Outdoor unit maximum absorbed power				kW			6			6			
Cooling circuit	Compressor type				Twin Rotary DC Inverter 6 poles			Twin Rotary DC Inverter 6 poles			Twin Rotary DC Inverter 6 poles		
	Refrigerant inlet connection diameter				"			3/8"-5/8"			3/8"-5/8"		
	Coolant gas		(p)		R410A			R410A			R410A		
	Global warming potential				GWP			2088			2088		
	Coolant gas load				kg			4.2			4.2		
Hydraulic data	Refrigerant piping length limit	min - max			2 - 50			2 - 50			2 - 50		
	Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018	max	(q)		-			-			-		
Secondary DHW cooling circuit	Drinking water - DHW hydraulic connections				"			1"			1"		
	System expansion valve capacity				l			8			8		
	DHW circuit heating capacity	w35 - w55	(r)		kW			2.15			2.15		
	COP DHW circuit	w35 - w55	(r)		W/W			3.12			3.12		
	DHW circuit heating capacity	w12 - w55	(s)		kW			1.6			1.6		
	COP DHW circuit	w12 - w55	(s)		W/W			2.58			2.58		
	Sound power indoor unit in heating/cooling + DHW circuit				dB (A)			49			49		
	DHW circuit circulator absorption				W			3 - 43			3 - 43		
	DHW circuit coolant gas		(t)		R134a			R134a			R134a		
	DHW circuit global warming potential				GWP			1430			1430		
DHW circuit coolant gas load				kg			0.35			0.35			

(a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C
(b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C
(c) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 30°C/35°C
(d) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 30°C/35°C
(f) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 40°C/45°C
(g) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C
(h) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 40°C/45°C
(i) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 40°C/45°C
(l) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C

(m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
(n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(o) Sound pressure values measured at a distance of 4 m in free field
(p) Non-airtightly sealed equipment containing fluorinated GAS
(q) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual
(r) Heating circuit water temperature 35°C / Output water temperature 55°C
(s) Heating circuit water temperature 12°C / Output water temperature 55°C
(t) Non-airtightly sealed equipment containing fluorinated GAS

		4			6			8			10			
		Cooling w7 - a35	ACS w65 - w12	Cooling w7 - A35 ACS w65 - w12	Cooling w7 - a35	ACS w65 - w12	Cooling w7 - A35 ACS w65 - w12	Cooling w7 - a35	ACS w65 - w12	Cooling w7 - A35 ACS w65 - w12	Cooling w7 - a35	ACS w65 - w12	Cooling w7 - A35 ACS w65 - w12	
First circuit + second circuit data	Cooling capacity	kw	4.5	0.64	4.5	6.5	0.64	6.50	7.38	0.64	7.38	8.15	0.64	8.15
	DHW yield	kw	0.00	1.28	1.28	0.00	1.28	1.28	0.00	1.28	1.28	0.00	1.28	1.28
	Absorption	kw	1.36	0.56	1.16	2.20	0.56	1.89	2.44	0.56	2.09	2.76	0.56	2.37
	COP EER		3.32	2.3	3.88	2.95	2.3	3.44	3.02	2.3	3.53	2.95	2.3	3.44

		12			14			16			12T			14T			16T			
		Cooling w7 - a35	ACS w65 - w12	Cooling w7 - A35 ACS w65 - w12	Cooling w7 - a35	ACS w65 - w12	Cooling w7 - A35 ACS w65 - w12	Cooling w7 - a35	ACS w65 - w12	Cooling w7 - A35 ACS w65 - w12	Cooling w7 - a35	ACS w65 - w12	Cooling w7 - A35 ACS w65 - w12	Cooling w7 - a35	ACS w65 - w12	Cooling w7 - A35 ACS w65 - w12	Cooling w7 - a35	ACS w65 - w12	Cooling w7 - A35 ACS w65 - w12	
First circuit + second circuit data	Cooling capacity	kw	11.02	0.64	11.02	12.49	0.64	12.49	12.85	0.64	12.85	12.25	0.64	12.25	13.24	0.64	13.24	13.43	0.64	13.43
	DHW yield	kw	0.00	1.28	1.28	0.00	1.28	1.28	0.00	1.28	1.28	0.00	1.28	1.28	0.00	1.28	1.28	0.00	1.28	1.28
	Absorption	kw	4.17	0.56	3.57	5.08	0.56	4.35	5.40	0.56	4.62	4.55	0.56	3.90	5.27	0.56	4.52	5.57	0.56	4.77
	COP EER		2.64	2.3	3.08	2.46	2.3	2.87	2.38	2.3	2.78	2.69	2.3	3.14	2.51	2.3	2.93	2.41	2.3	2.81



COOLING + DHW WITH ENERGY RECOVERY

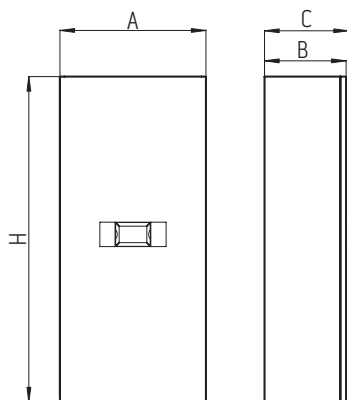
During summer operation in cooling mode, the cycle dedicated to DHW production extracts heat from return water from the system circuit.

The cooling requirements of the building is partially satisfied by the DHW cycle and the comfort refrigerating cycle must deliver less power by reducing the speed of the inverter compressor.

The heat taken from the system is recovered in hot water for domestic use. The efficiency of the integrated system increases (ratio between the energy produced and the energy absorbed from the mains).

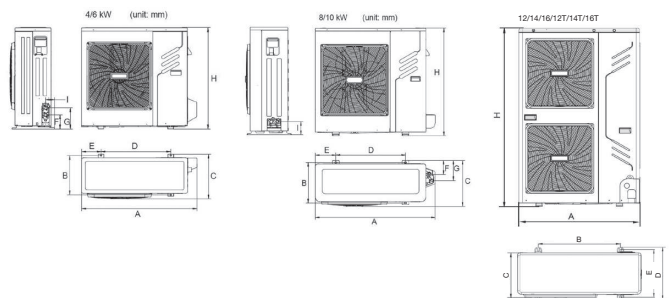
INDOOR UNIT

		4	6	8	10	12	14	16	12T	14T	16T
		SMALL			BIG			BIG			
A	mm	500	500	500	500	500	500	500	500	500	500
B	mm	280	280	280	280	280	280	280	280	280	280
C	mm	288	288	288	288	288	288	288	288	288	288
H	mm	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
Net weight	kg	70	70	70	70	72	72	72	72	72	72



OUTDOOR UNIT

		4	6	8	10	12	14	16	12T	14T	16T
		MONOFAN			BI-FAN			BI-FAN			
A	mm	974	974	1075	1075	900	900	900	900	900	900
B	mm	333	333	363	363	600	600	600	600	600	600
C	mm	378	378	411	411	348	348	348	348	348	348
D	mm	590	590	625	625	400	400	400	400	400	400
E	mm	164	164	184	184	360	360	360	360	360	360
F	mm	119	119	126	126	-	-	-	-	-	-
G	mm	179	179	179	179	-	-	-	-	-	-
H	mm	857	857	965	965	1327	1327	1327	1327	1327	1327
I	mm	75	75	117	117						
Net weight	kg	57	57	67	67	99	99	99	115	115	115



NEW

SHERPA AQUADUE TOWER S2

Multi-purpose split heat pump, with integrated 150L storage tank



Compatible with:



DHW AND COMFORT AT THE SAME TIME

The two interconnected refrigerator cycles allow the decoupling of the heating/cooling from the DHW production, enabling them to operate in parallel, avoiding thus interruptions in the domestic comfort supply.



75°C DOMESTIC HOT WATER

High temperature DHW storage allows a reduction of the boiler volume up to 30%, to heat bathroom heater radiators and avoids highly energy-consuming anti-legionella cycles that are normally performed through the use of electrical resistances.



LOW GWP GAS

In sizes up to 10 kW, it uses the R32 refrigerant, characterised by greater efficiency and a greenhouse effect reduced by almost 70% (compared to R410A).



TOUCH SCREEN USER INTERFACE

The control of Sherpa Aquadue, extremely flexible and configurable, is used to customise the intervention thresholds of the two cycles at the time of installation and the needs for comfort and DHW, as well as to optimise energy performance by managing operation of the dual cooling cycle.

FEATURES

Inverter air-water heat pump

Energy efficiency class in average climate heating up to: A+++ (35°C) and A++ (55°C)

Powers available: 4 Powers with refrigerant R32: 4-6-8-10 kW single-phase and 3 Powers with refrigerant R410A: 12-14-16 kW single-phase and three-phase

Production of DHW (Domestic Hot Water) at high temperature, up to 75 °C in the integrated storage tank.

DHW management: a water/water heat pump unit integrated in the internal unit supplies domestic hot water at high temperature regardless of the external climatic conditions.

Absolute continuity availability of DHW: guaranteed by the redundancy of the dual cooling cycle system

Anti-legionella cycles that can be avoided using the high temperature refrigeration cycle.

Double stage electric heating elements as standard: activation of single or double heating element to support the heat pump by means of a simple electronic control configuration. Each stage is activated according to the actual need for thermal power, in order to optimise electricity consumption (supplied disabled by default).

Configurable set points: two set points in cooling, Three set points in heating (one of which for DHW): the set points can also be selected via remote contact.

Holiday and weekly programmer: heating/cooling, DHW, night-time.

Climatic curves with external air temperature probe: two curves available, one for cooling and one for heating. The climatic curves are used to vary the temperature of the water supplying the system according to the external climatic conditions, adjusting the thermal needs of the building, in order to achieve energy savings.

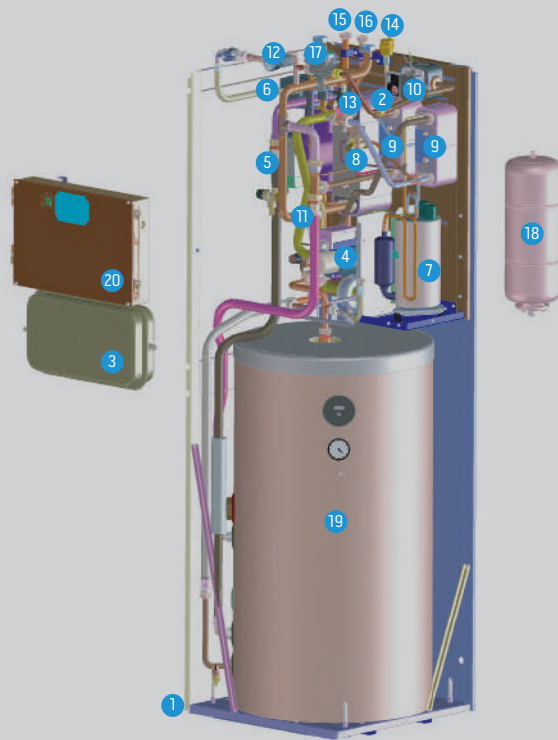
Refrigerant gases: R32* and R410A* for the reversible circuit dedicated to air conditioning and R134A** for the high temperature circuit dedicated to the production of DHW.

Built-in 150 L high efficiency storage tank with an exchange battery surface equal to 1.5 m².

* Non hermetically sealed equipment containing fluorinated gas with GWP equivalent 675 (R32) and 2088 (R410A)

** Non hermetically sealed equipment containing fluorinated gas with GWP equivalent 1430

1. Support structure
2. System primary circuit heat exchanger
3. System circuit expansion vessel
4. Electric heating elements manifold
5. Primary circuit electronic circulation pump
6. 3-way valve
7. DHW circuit compressor
8. DHW circuit expansion valve
9. DHW circuit heat exchanger
10. DHW circuit electronic circulation pump
11. Flow regulator
12. Pressure gauge
13. Flow switch
14. Automatic safety vent
15. Refrigeration connections
16. Hydraulic connections (system and DHW circuit)
17. Automatic filling of DHW circuit technical water
18. DHW expansion tank
19. Storage tank for domestic hot water
20. Electrical panel

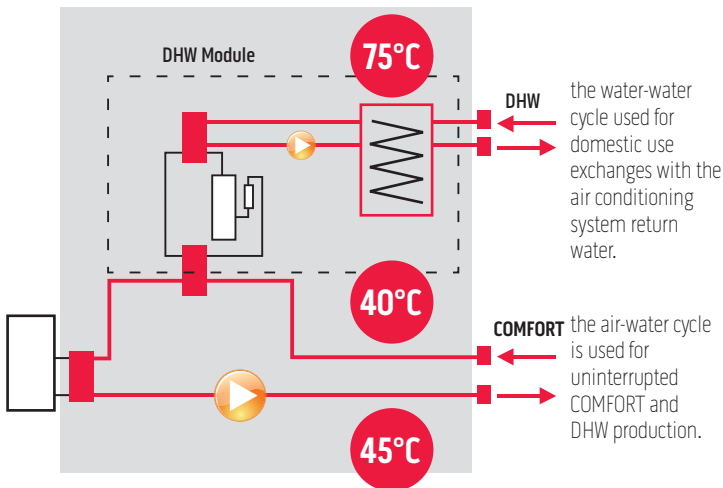


STANDARD EQUIPMENT:
- External air probe kit

HEATING MODE

+ DHW at high temperature

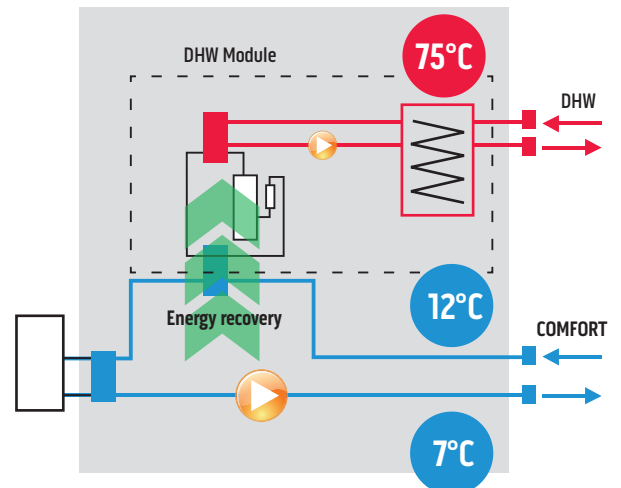
DHW production is guaranteed independently from the outside temperature for an optimal operation throughout the year, which is not guaranteed by traditional heat pumps.



COOLING MODE

+ DHW at a high temperature with energy recovery

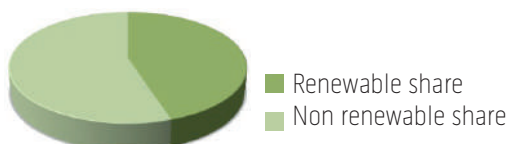
The energy normally dissipated outside is recovered and used to produce DHW up to 75 °C.



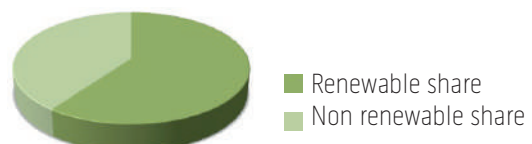
RENEWABLE SHARE COVERAGE FOR DHW PRODUCTION WITHOUT ADDITIONAL EQUIPMENT - RES DIRECTIVE

AQUADUE technology thanks to efficient heat management guarantees, in buildings of a high energy class, the coverage share from renewable energy (Legislative Decree 28/2011) without the installation of additional devices.

Traditional heat pump



Sherpa AQUADUE® heat pump



Size				SHERPA AQUADUE TOWER S2 E - Single-phase R32													
				4			6			8			10				
INDOOR UNIT CODE				02044			02044			02044			02044				
OUTDOOR UNIT CODE				02001			02002			02003			02004				
Compressor frequency				Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum		
Precise performance	Heating output	a7/6 - w30/35	(a)	kW	2.08	4.2	5.59	3.22	6.5	8.66	4.17	8.4	11.19	4.96	10	13.32	
	COP	a7/6 - w30/35	(a)	W/W	-	5.15	-	-	4.85	-	4.85	-	-	-	4.65	-	
	Heating output	a2/1 - w30/35	(b)	kW	2.08	4.25	5.38	2.74	5.58	7.06	3.48	7.1	8.99	4.04	8.25	10.44	
	COP	a2/1 - w30/35	(b)	W/W	-	3.9	-	-	3.88	-	3.88	-	-	-	3.6	-	
	Heating output	a-7/-8 - w30/35	(c)	kW	2.23	4.8	5.23	2.79	6	6.53	3.28	7.05	7.67	3.81	8.2	8.93	
	COP	a-7/-8 - w30/35	(c)	W/W	-	3	-	-	2.94	-	3.04	-	-	-	2.95	-	
	Heating output	a-15/-16 - w30/35	(d)	kW	2.17	4.67	5.08	2.26	4.86	5.29	3.25	6.99	7.61	3.25	6.99	7.61	
	COP	a-15/-16 - w30/35	(d)	W/W	-	2.3	-	-	2.27	-	2.34	-	-	-	2.34	-	
	Heating output (fancoils)	a7/6 - w40/45	(f)	kW	2.08	4.2	5.59	3.15	6.35	8.46	3.99	8.05	10.72	4.89	9.85	13.12	
	COP (fancoils)	a7/6 - w40/45	(f)	W/W	-	3.65	-	-	3.64	-	3.73	-	-	-	3.62	-	
	Heating output (fancoils)	a2/1 - w40/45	(g)	kW	2.11	4.3	5.44	2.77	5.65	7.15	3.68	7.5	9.49	3.9	7.95	10.06	
	COP (fancoils)	a2/1 - w40/45	(g)	W/W	-	3.05	-	-	3.02	-	3.15	-	-	-	3.04	-	
	Heating output (fancoils)	a-7/-8 - w40/45	(h)	kW	1.93	4.15	4.52	2.56	5.5	5.99	3.09	6.65	7.24	3.63	7.8	8.49	
	COP (fancoils)	a-7/-8 - w40/45	(h)	W/W	-	2.39	-	-	2.42	-	2.45	-	-	-	2.41	-	
	Heating output (fancoils)	a-15/-16 - w40/45	(i)	kW	1.92	4.14	4.51	2	4.31	4.69	2.81	6.05	6.59	2.81	6.05	6.59	
	COP (fancoils)	a-15/-16 - w40/45	(i)	W/W	-	1.79	-	-	1.77	-	1.92	-	-	-	1.92	-	
Cooling power	a35 - w23/18	(l)	kW	2.31	4.3	5.27	3.46	6.45	7.91	4.48	8.35	10.24	5.47	10.2	12.51		
EER	a35 - w23/18	(l)	W/W	-	5.6	-	-	4.88	-	4.67	-	-	-	4.25	-		
Cooling output (fancoils)	a35 - w12/7	(m)	kW	2.41	4.5	5.52	3.49	6.5	7.97	3.96	7.38	9.05	4.37	8.15	10		
EER (fancoils)	a35 - w12/7	(m)	W/W	-	3.32	-	-	2.95	-	3.02	-	-	-	2.95	-		
Efficiencies	Energy efficiency class in water heating 35°C	Warmer Climate			A+++			A+++			A+++			A+++			
	SCOP	Warmer Climate			6.52			6.52			6.69			6.69			
	ηs (Seasonal efficiency for space heating)	Warmer Climate	ηs %		257.7			257.7			264.6			264.6			
	Energy efficiency class in water heating 35°C	Average Climate			A+++			A+++			A+++			A+++			
	SCOP	Average Climate			4.77			4.77			4.79			4.79			
	ηs (Seasonal efficiency for space heating)	Average Climate	ηs %		187.7			187.7			188.5			188.5			
	Energy efficiency class in water heating 35°C	Cold Climate				A++			A++			A++			A++		
	SCOP	Cold Climate				4.06			4.06			4.01			4.01		
	ηs (Seasonal efficiency for space heating)	Cold Climate	ηs %			159.5			159.5			157.5			157.5		
	Energy efficiency class in water heating 55°C	Warmer Climate				A+++			A+++			A+++			A+++		
	SCOP	Warmer Climate				4.28			4.28			4.29			4.29		
	ηs (Seasonal efficiency for space heating)	Warmer Climate	ηs %			168.2			168.2			168.5			168.5		
Energy efficiency class in water heating 55°C	Average Climate				A+++			A+++			A+++			A+++			
SCOP	Average Climate				3.34			3.34			3.28			3.28			
ηs (Seasonal efficiency for space heating)	Average Climate	ηs %			130.6			130.6			128.0			128.0			
Energy efficiency class in water heating 55°C	Cold Climate				A+			A+			A+			A+			
SCOP	Cold Climate				2.77			2.77			2.66			2.66			
ηs (Seasonal efficiency for space heating)	Cold Climate	ηs %			107.9			107.9			103.5			103.5			
Noise level	Indoor unit sound power				dB (A)			41			41			41			
	Indoor unit sound pressure	(n)			dB (A)			35			35			35			
	Outdoor unit sound power (nominal)				dB (A)			61			62			65			
	Outdoor unit sound pressure (nominal)	(o)			dB (A)			38			39			42			
Electrical data	System circulator absorption				W			3 - 87			3 - 87			3 - 87			
	Internal unit electrical power supply				V/ph/Hz			220-240/1/50			220-240/1/50			220-240/1/50			
	Maximum current absorbed indoor unit with additional active heating elements				A			18.00			18.00			18.00			
	Maximum power absorbed indoor unit with additional active heating elements				kW			4.05			4.05			4.05			
	Additional electric heating elements				kW			1,5+1,5			1,5+1,5			1,5+1,5			
	External unit electrical power supply				V/ph/Hz			220-240/1/50			220-240/1/50			220-240/1/50			
	Outdoor unit maximum absorbed current				A			14			19			19			
Outdoor unit maximum absorbed power				kW			2.65			2.65			3.8				
Cooling circuit	Compressor type				Twin Rotary DC Inverter 4 poles			Twin Rotary DC Inverter 4 poles			Twin Rotary DC Inverter 6 poles			Twin Rotary DC Inverter 6 poles			
	Refrigerant inlet connection diameter				"			1/4"-5/8"			1/4"-5/8"			3/8"-5/8"			
	Coolant gas	(p)			R32			R32			R32			R32			
	Global warming potential				GWP			675			675			675			
	Coolant gas load				kg			1.55			1.55			1.65			
	Refrigerant piping length limit	min - max				2 - 29			2 - 29			2 - 30			2 - 30		
Hydraulic data	Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018	max	(q)		29			29			20			20			
	Drinking water - DHW hydraulic connections				"			1"			1"			1"			
Integrated boiler	System expansion valve capacity				l			8			8			8			
	Load profile according to EN16147				L			L			L			L			
	DHW production energy efficiency class	Average Climate			A			A			A			A			
	-	-			-			-			-			-			
	-	-			-			-			-			-			
	Boiler volume				l			150			150			150			
	Boiler interior surface material				DD12 glazed steel S235JR			DD12 glazed steel S235JR			DD12 glazed steel S235JR			DD12 glazed steel S235JR			
	Heat exchanger in the boiler				m2			1.5			1.5			1.5			
	Type and thickness of boiler insulation				Hard expanded polyurethane 55 mm			Hard expanded polyurethane 55 mm			Hard expanded polyurethane 55 mm			Hard expanded polyurethane 55 mm			
	Specific dispersion				W/K			2			2			2			
Secondary DHW cooling circuit	DHW expansion tank capacity				l			7			7			7			
	DHW hydraulic connections				"			3/4"			3/4"			3/4"			
	DHW circuit heating capacity	w35 - w55	(r)		kW			2.15			2.15			2.15			
	COP DHW circuit	w35 - w55	(r)		W/W			3.12			3.12			3.12			
	DHW circuit heating capacity	w12 - w55	(s)		kW			1.6			1.6			1.6			
	COP DHW circuit	w12 - w55	(s)		W/W			2.58			2.58			2.58			
	Sound power indoor unit in heating/cooling + DHW circuit				dB (A)			49			49			49			
	DHW circuit circulator absorption				W			3 - 43			3 - 43			3 - 43			
DHW circuit coolant gas	DHW circuit global warming potential		(t)		R134a			R134a			R134a			R134a			
	DHW circuit coolant gas load				kg			0.35			0.35			0.35			

(a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C
(b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C
(c) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 30°C/35°C
(d) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 30°C/35°C
(e) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 40°C/45°C
(f) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C
(g) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 40°C/45°C
(h) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 40°C/45°C
(i) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 40°C/45°C
(l) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C

(m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
(n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(o) Sound pressure values measured at a distance of 4 m in free field
(p) Non-airtightly sealed equipment containing fluorinated GAS
(q) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual
(r) Heating circuit water temperature 35°C / Output water temperature 55°C
(s) Heating circuit water temperature 12°C / Output water temperature 55°C
(t) Non-airtightly sealed equipment containing fluorinated GAS

Size		SHERPA AQUADUE TOWER S2 - Single-phase R410A											
		12			14			16					
INDOOR UNIT CODE		02045			02045			02045					
OUTDOOR UNIT CODE		02005			02006			02007					
Compressor frequency		Minimum			Nominal			Maximum					
Precise performance	Heating output	a7/6 - w30/35	(a)	kW	4.77	12.1	15.79	5.52	14	18.27	6.12	15.5	20.23
	COP	a7/6 - w30/35	(a)	W/W	-	4.42	-	-	4.13	-	-	4.06	-
	Heating output	a2/1 - w30/35	(b)	kW	3.63	9.22	11.51	4.34	11.03	13.77	4.6	11.68	14.59
	COP	a2/1 - w30/35	(b)	W/W	-	3.52	-	-	3.35	-	-	3.28	-
	Heating output	a-7/-8 - w30/35	(c)	kW	3.83	9.96	10.93	4.22	10.99	12.06	4.59	11.94	13.11
	COP	a-7/-8 - w30/35	(c)	W/W	-	2.8	-	-	2.7	-	-	2.64	-
	Heating output	a-15/-16 - w30/35	(d)	kW	2.27	5.9	6.48	2.53	6.58	7.22	2.79	7.26	7.97
	COP	a-15/-16 - w30/35	(d)	W/W	-	2.06	-	-	1.94	-	-	1.92	-
	Heating output (fancoils)	a7/6 - w40/45	(f)	kW	4.68	11.85	15.46	5.54	14.05	18.33	6.33	16.05	20.94
	COP (fancoils)	a7/6 - w40/45	(f)	W/W	-	3.41	-	-	3.19	-	-	3.19	-
	Heating output (fancoils)	a2/1 - w40/45	(g)	kW	3.65	9.26	11.56	4.55	11.55	14.42	4.64	11.78	14.71
	COP (fancoils)	a2/1 - w40/45	(g)	W/W	-	2.77	-	-	2.74	-	-	2.73	-
	Heating output (fancoils)	a-7/-8 - w40/45	(h)	kW	3.65	9.51	10.44	4.37	11.38	12.49	4.39	11.42	12.54
	COP (fancoils)	a-7/-8 - w40/45	(h)	W/W	-	2.22	-	-	2.18	-	-	2.17	-
	Heating output (fancoils)	a-15/-16 - w40/45	(i)	kW	1.92	5.01	5.5	2.15	5.59	6.14	2.37	6.17	6.77
	COP (fancoils)	a-15/-16 - w40/45	(i)	W/W	-	1.66	-	-	1.57	-	-	1.55	-
	Cooling power	a35 - w23/18	(l)	kW	5.51	11.8	14.05	6.07	13	15.48	6.54	14	16.67
	EER	a35 - w23/18	(l)	W/W	-	4.45	-	-	4.02	-	-	3.87	-
	Cooling output (fancoils)	a35 - w12/7	(m)	kW	5.15	11.02	13.13	5.83	12.49	14.88	6	12.85	15.3
	EER (fancoils)	a35 - w12/7	(m)	W/W	-	2.64	-	-	2.46	-	-	2.38	-
Efficiencies	Energy efficiency class in water heating 35°C	Warmer Climate			A+++			A+++			A+++		
	SCOP	Warmer Climate			6.16			5.31			5.28		
	ηs (Seasonal efficiency for space heating)	Warmer Climate		ηs %	245.0			211.0			210.0		
	Energy efficiency class in water heating 35°C	Average Climate			A+++			A++			A++		
	SCOP	Average Climate			4.41			4.23			3.96		
	ηs (Seasonal efficiency for space heating)	Average Climate		ηs %	175.0			168.0			157.0		
	Energy efficiency class in water heating 35°C	Cold Climate			A+			A+			A+		
	SCOP	Cold Climate			3.58			3.33			3.41		
	ηs (Seasonal efficiency for space heating)	Cold Climate		ηs %	142.0			132.0			135.0		
	Energy efficiency class in water heating 55°C	Warmer Climate			A+++			A+++			A+++		
	SCOP	Warmer Climate			4.33			4.18			4.51		
	ηs (Seasonal efficiency for space heating)	Warmer Climate		ηs %	172.0			166.0			179.0		
Noise level	Indoor unit sound power				41			41			41		
	Indoor unit sound pressure	(n)			35			35			35		
	Outdoor unit sound power (nominal)				69			71			72		
	Outdoor unit sound pressure (nominal)	(o)			46			48			49		
	System circulator absorption			W	8 - 140			8 - 140			8 - 140		
	Internal unit electrical power supply			V/ph/Hz	220-240/1/50			220-240/1/50			220-240/1/50		
	Maximum current absorbed indoor unit with additional active heating elements			A	31.00			31.00			31.00		
	Maximum power absorbed indoor unit with additional active heating elements			kW	7.05			7.05			7.05		
	Additional electric heating elements			kW	3.0+3.0			3.0+3.0			3.0+3.0		
	External unit electrical power supply			V/ph/Hz	220-240/1/50			220-240/1/50			220-240/1/50		
	Outdoor unit maximum absorbed current			A	27			27			27		
	Outdoor unit maximum absorbed power			kW	6			6			6		
Cooling circuit	Compressor type				Twin Rotary DC Inverter 6 poles			Twin Rotary DC Inverter 6 poles			Twin Rotary DC Inverter 6 poles		
	Refrigerant inlet connection diameter			"	3/8"-5/8"			3/8"-5/8"			3/8"-5/8"		
	Coolant gas	(p)			R410A			R410A			R410A		
	Global warming potential			GWP	2088			2088			2088		
	Coolant gas load			kg	3.9			3.9			3.9		
	Refrigerant piping length limit	min - max	(q)			2 - 50			2 - 50			2 - 50	
Hydraulic data	Drinking water - DHW hydraulic connections			"	1"			1"			1"		
	System expansion valve capacity			l	8			8			8		
Integrated boiler	Load profile according to EN16147				L			L			L		
	DHW production energy efficiency class	Average Climate			A			A			A		
	-				-			-			-		
	-				-			-			-		
	Boiler volume			l	150			150			150		
	Boiler interior surface material				DD12 glazed steel S235JR			DD12 glazed steel S235JR			DD12 glazed steel S235JR		
	Heat exchanger in the boiler			m2	1.5			1.5			1.5		
	Type and thickness of boiler insulation				Hard expanded polyurethane 55 mm			Hard expanded polyurethane 55 mm			Hard expanded polyurethane 55 mm		
	Specific dispersion			W/K	2			2			2		
	DHW expansion tank capacity			l	7			7			7		
Secondary DHW cooling circuit	DHW hydraulic connections			"	3/4"			3/4"			3/4"		
	DHW circuit heating capacity	w35 - w55	(r)	kW	2.15			2.15			2.15		
	COP DHW circuit	w35 - w55	(r)	W/W	3.12			3.12			3.12		
	DHW circuit heating capacity	w12 - w55	(s)	kW	1.6			1.6			1.6		
	COP DHW circuit	w12 - w55	(s)	W/W	2.58			2.58			2.58		
	Sound power indoor unit in heating/cooling + DHW circuit				49			49			49		
	DHW circuit circulator absorption			W	3 - 43			3 - 43			3 - 43		
	DHW circuit coolant gas	(t)			R134a			R134a			R134a		
DHW circuit global warming potential			GWP	1430			1430			1430			
DHW circuit coolant gas load			kg	0.35			0.35			0.35			

(a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C
(b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C
(c) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 30°C/35°C
(d) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 30°C/35°C
(f) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 40°C/45°C
(g) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C
(h) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 40°C/45°C
(i) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 40°C/45°C
(l) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C

(m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
(n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(o) Sound pressure values measured at a distance of 4 m in free field
(p) Non-airtightly sealed equipment containing fluorinated GAS
(q) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual
(r) Heating circuit water temperature 35°C / Output water temperature 55°C
(s) Heating circuit water temperature 12°C / Output water temperature 55°C
(t) Non-airtightly sealed equipment containing fluorinated GAS

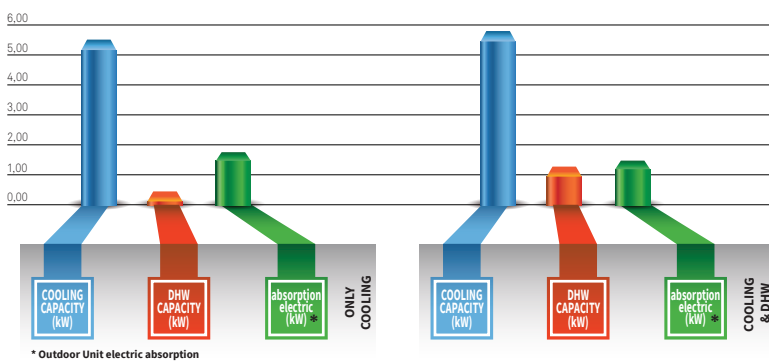
Size		SHERPA AQUADUE TOWER S2 - Three-phase R410A											
		12T			14T			16T					
INDOOR UNIT CODE		02045			02045			02045					
OUTDOOR UNIT CODE		02008			02009			02010					
Compressor frequency		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum			
Precise performance	Heating output	a7/6 - w30/35	(a)	kW	4.77	12.1	15.79	5.52	14	18.27	6.12	15.5	20.23
	COP	a7/6 - w30/35	(a)	W/W	-	4.53	-	-	4.31	-	-	4.19	-
	Heating output	a2/1 - w30/35	(b)	kW	3.6	9.14	11.41	4.29	10.91	13.62	4.31	10.95	13.67
	COP	a2/1 - w30/35	(b)	W/W	-	3.6	-	-	3.42	-	-	3.39	-
	Heating output	a-7/-8 - w30/35	(c)	kW	3.72	9.69	10.64	4.31	11.21	12.31	4.32	11.25	12.35
	COP	a-7/-8 - w30/35	(c)	W/W	-	2.75	-	-	2.66	-	-	2.64	-
	Heating output	a-15/-16 - w30/35	(d)	kW	2.38	6.19	6.79	2.74	7.13	7.83	2.93	7.62	8.36
	COP	a-15/-16 - w30/35	(d)	W/W	-	2.17	-	-	2.09	-	-	2.05	-
	Heating output (fancoils)	a7/6 - w40/45	(f)	kW	4.7	11.91	15.54	5.48	13.9	18.14	6.13	15.53	20.26
	COP (fancoils)	a7/6 - w40/45	(f)	W/W	-	3.44	-	-	3.3	-	-	3.18	-
	Heating output (fancoils)	a2/1 - w40/45	(g)	kW	3.65	9.26	11.56	4.51	11.46	14.31	4.97	12.62	15.76
	COP (fancoils)	a2/1 - w40/45	(g)	W/W	-	2.8	-	-	2.7	-	-	2.68	-
	Heating output (fancoils)	a-7/-8 - w40/45	(h)	kW	3.73	9.7	10.65	4.38	11.4	12.51	4.39	11.44	12.56
	COP (fancoils)	a-7/-8 - w40/45	(h)	W/W	-	2.26	-	-	2.17	-	-	2.15	-
	Heating output (fancoils)	a-15/-16 - w40/45	(i)	kW	2.02	5.27	5.78	2.33	6.06	6.65	2.49	6.48	7.11
	COP (fancoils)	a-15/-16 - w40/45	(i)	W/W	-	1.74	-	-	1.67	-	-	1.64	-
	Cooling power	a35 - w23/18	(l)	kW	5.51	11.8	14.05	6.45	13.8	16.44	6.87	14.7	17.51
	EER	a35 - w23/18	(l)	W/W	-	4.59	-	-	4.21	-	-	3.9	-
	Cooling output (fancoils)	a35 - w12/7	(m)	kW	5.72	12.25	14.59	5.83	13.24	14.88	6.27	13.43	16
	EER (fancoils)	a35 - w12/7	(m)	W/W	-	2.69	-	-	2.51	-	-	2.41	-
Efficiencies	Energy efficiency class in water heating 35°C	Warmer Climate			A+++			A+++			A+++		
	SCOP	Warmer Climate			6.41			6.53			6.13		
	η _s (Seasonal efficiency for space heating)	Warmer Climate		η _s %	255.0			260.0			244.0		
	Energy efficiency class in water heating 35°C	Average Climate			A+++			A+++			A++		
	SCOP	Average Climate			4.63			4.51			4.33		
	η _s (Seasonal efficiency for space heating)	Average Climate		η _s %	184.0			179.0			172.0		
	Energy efficiency class in water heating 35°C	Cold Climate			A++			A++			A+		
	SCOP	Cold Climate			3.96			3.78			3.61		
	η _s (Seasonal efficiency for space heating)	Cold Climate		η _s %	157.0			150.0			143.0		
	Energy efficiency class in water heating 55°C	Warmer Climate			A+++			A+++			A+++		
	SCOP	Warmer Climate			4.13			4.21			4.21		
	η _s (Seasonal efficiency for space heating)	Warmer Climate		η _s %	164.0			167.0			167.0		
Energy efficiency class in water heating 55°C	Average Climate			A++			A++			A++			
SCOP	Average Climate			3.23			3.28			3.28			
η _s (Seasonal efficiency for space heating)	Average Climate		η _s %	128.0			130.0			130.0			
Energy efficiency class in water heating 55°C	Cold Climate			A+			A+			A+			
SCOP	Cold Climate			2.78			2.73			2.76			
η _s (Seasonal efficiency for space heating)	Cold Climate		η _s %	110.0			108.0			109.0			
Noise level	Indoor unit sound power			dB (A)	41			41			41		
	Indoor unit sound pressure		(n)	dB (A)	35			35			35		
	Outdoor unit sound power (nominal)			dB (A)	70			72			72		
	Outdoor unit sound pressure (nominal)		(o)	dB (A)	47			49			49		
Electrical data	System circulator absorption			W	8 - 140			8 - 140			8 - 140		
	Internal unit electrical power supply			V/ph/Hz	220-240/1/50			220-240/1/50			220-240/1/50		
	Maximum current absorbed indoor unit with additional active heating elements			A	31.00			31.00			31.00		
	Maximum power absorbed indoor unit with additional active heating elements			kW	7.05			7.05			7.05		
	Additional electric heating elements			kW	3,0+3,0			3,0+3,0			3,0+3,0		
	External unit electrical power supply			V/ph/Hz	380-415/3/50			380-415/3/50			380-415/3/50		
	Outdoor unit maximum absorbed current			A	9			9			9		
	Outdoor unit maximum absorbed power			kW	6			6			6		
Cooling circuit	Compressor type				Twin Rotary DC Inverter 6 poles			Twin Rotary DC Inverter 6 poles			Twin Rotary DC Inverter 6 poles		
	Refrigerant inlet connection diameter			"	3/8"-5/8"			3/8"-5/8"			3/8"-5/8"		
	Coolant gas		(p)		R410A			R410A			R410A		
	Global warming potential			GWP	2088			2088			2088		
	Coolant gas load			kg	4.2			4.2			4.2		
Hydraulic data	Refrigerant piping length limit	min - max			2 - 50			2 - 50			2 - 50		
	Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018	max	(q)		-			-			-		
Integrated boiler	Drinking water - DHW hydraulic connections			"	1"			1"			1"		
	System expansion valve capacity			l	8			8			8		
	Load profile according to EN16147				L			L			L		
	DHW production energy efficiency class	Average Climate			A			A			A		
	-	-			-			-			-		
	-	-			-			-			-		
	Boiler volume			l	150			150			150		
	Boiler interior surface material				DD12 glazed steel S235JR			DD12 glazed steel S235JR			DD12 glazed steel S235JR		
	Heat exchanger in the boiler			m ²	1.5			1.5			1.5		
	Type and thickness of boiler insulation				Hard expanded polyurethane 55 mm			Hard expanded polyurethane 55 mm			Hard expanded polyurethane 55 mm		
Secondary DHW cooling circuit	Specific dispersion			W/K	2			2			2		
	DHW expansion tank capacity			l	7			7			7		
	DHW hydraulic connections			"	3/4"			3/4"			3/4"		
	DHW circuit heating capacity	w35 - w55	(r)	kW	2.15			2.15			2.15		
	COP DHW circuit	w35 - w55	(r)	W/W	3.12			3.12			3.12		
	DHW circuit heating capacity	w12 - w55	(s)	kW	1.6			1.6			1.6		
	COP DHW circuit	w12 - w55	(s)	W/W	2.58			2.58			2.58		
	Sound power indoor unit in heating/cooling + DHW circuit			dB (A)	49			49			49		
	DHW circuit circulator absorption			W	3 - 43			3 - 43			3 - 43		
	DHW circuit coolant gas		(t)		R134a			R134a			R134a		
DHW circuit global warming potential			GWP	1430			1430			1430			
DHW circuit coolant gas load			kg	0.35			0.35			0.35			

(a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C
(b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C
(c) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 30°C/35°C
(d) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 30°C/35°C
(f) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 40°C/45°C
(g) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C
(h) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 40°C/45°C
(i) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 40°C/45°C
(l) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C

(m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
(n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(o) Sound pressure values measured at a distance of 4 m in free field
(p) Non-airtightly sealed equipment containing fluorinated GAS
(q) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual
(r) Heating circuit water temperature 35°C / Output water temperature 55°C
(s) Heating circuit water temperature 12°C / Output water temperature 55°C
(t) Non-airtightly sealed equipment containing fluorinated GAS

		4		6		8		10	
		Cooling w7 - a35	ACS w65 - w12	Cooling w7 - a35	ACS w65 - w12	Cooling w7 - a35	ACS w65 - w12	Cooling w7 - a35	ACS w65 - w12
First circuit + second circuit data	Cooling capacity	4.50	0.64	4.50	0.64	4.50	0.64	4.50	0.64
	DHW yield	0.00	1.28	1.28	0.00	1.28	1.28	0.00	1.28
	Absorption	1.36	0.56	1.16	2.20	0.56	1.89	2.44	0.56
	COP EER	3.32	2.3	3.88	2.95	2.3	3.44	3.02	2.3

		12		14		16		12T		14T		16T	
		Cooling w7 - a35	ACS w65 - w12	Cooling w7 - a35	ACS w65 - w12	Cooling w7 - a35	ACS w65 - w12	Cooling w7 - a35	ACS w65 - w12	Cooling w7 - a35	ACS w65 - w12	Cooling w7 - a35	ACS w65 - w12
First circuit + second circuit data	Cooling capacity	11.02	0.64	11.02	0.64	12.49	0.64	12.85	0.64	12.25	0.64	12.25	0.64
	DHW yield	0.00	1.28	1.28	0.00	1.28	1.28	0.00	1.28	1.28	0.00	1.28	1.28
	Absorption	4.17	0.56	3.57	5.08	0.56	4.35	5.40	0.56	4.55	0.56	3.90	5.27
	COP EER	2.64	2.3	3.08	2.46	2.3	2.87	2.38	2.3	2.69	2.3	3.14	2.51



COOLING + DHW WITH ENERGY RECOVERY

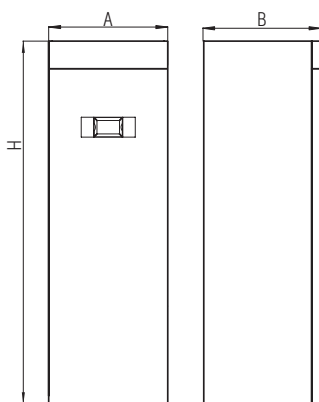
During summer operation in cooling mode, the cycle dedicated to DHW production extracts heat from return water from the system circuit.

The cooling requirements of the building is partially satisfied by the DHW cycle and the comfort refrigerating cycle must deliver less power by reducing the speed of the inverter compressor.

The heat taken from the system is recovered in hot water for domestic use. The efficiency of the integrated system increases (ratio between the energy produced and the energy absorbed from the mains).

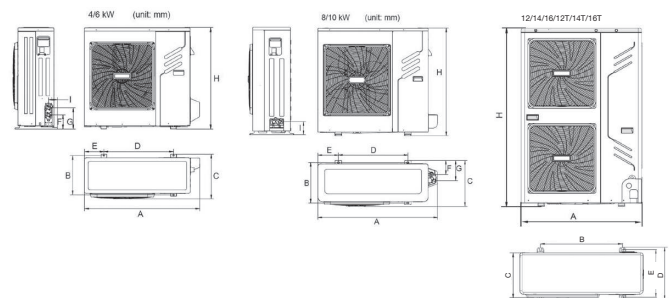
INDOOR UNIT

		4	6	8	10	12	14	16	12T	14T	16T
		SMALL				BIG			BIG		
A	mm	600	600	600	600	600	600	600	600	600	600
B	mm	600	600	600	600	600	600	600	600	600	600
H	mm	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980
Net weight	kg	171	171	171	171	173	173	173	173	173	173



OUTDOOR UNIT

		4	6	8	10	12	14	16	12T	14T	16T
		MONOFAN				BI-FAN		BI-FAN			
A	mm	974	1075	1075	900	900	900	900	900	900	900
B	mm	333	333	363	363	600	600	600	600	600	600
C	mm	378	378	411	411	348	348	348	348	348	348
D	mm	590	590	625	625	400	400	400	400	400	400
E	mm	164	164	184	184	360	360	360	360	360	360
F	mm	119	119	126	126	-	-	-	-	-	-
H	mm	857	857	965	965	1327	1327	1327	1327	1327	1327
I	mm	75	75	117	117	-	-	-	-	-	-
Net weight	kg	57	57	67	67	99	99	99	115	115	115



NEW

SHERPA S2

Split heat pump



Compatible with:



COMPACT TECHNOLOGY

The engineering of the components and the reduced shapes allow it to be installed inside a kitchen cabinet.



DOMESTIC HOT WATER AT 60°C

Sherpa S2 supplies domestic hot water with temperatures up to 60°C.



LOW GWP GAS

In sizes up to 10 kW, it uses the R32 refrigerant, characterised by greater efficiency and a greenhouse effect reduced by almost 70% (compared to R410A).



TOUCH SCREEN USER INTERFACE

Flexible and configurable, it is used to customise your comfort and DHW needs and to optimise energy performance.

FEATURES

Inverter air-water heat pump

Energy efficiency class in average climate heating up to: A+++ (35°C) and A++ (55°C)

Powers available: 4 Powers with refrigerant R32: 4-6-8-10 kW single-phase and 3 Powers with refrigerant R410A: 12-14-16 kW single-phase and three-phase

Supplies DHW with temperature up to 60° C.

DHW management: Sherpa is used to manage Domestic Hot Water with extreme flexibility through two management modes: water probe inserted in the storage tank or thermostat contact of the storage tank.

Climatic curves based on the external air temperature: two curves available, one for cooling and one for heating. The climatic curves allow the temperature of the system to be varied according to the external climatic conditions, adjusting the heat input to the building's thermal needs, in order to obtain energy savings.

Two configurable cooling set points, **Three set points** configurable in heating mode (one of which for DHW); the set points can also be selected from a remote contact.

Standard double-stage electric heating elements: configurable as single or double-stage can be activated to support the heat pump, with checking, via the electronic control, of the actual thermal output of the heat pump. Each stage is activated according to the actual need for thermal power, in order to optimise electricity consumption.

Daily holiday and weekly programmer: heating/cooling, DHW, night..

Complete management of anti-legionella cycles

R32* or R410A* refrigerant gas

* Equipment not hermetically sealed containing fluorinated gases with an equivalent GWP of 675 (R32) and 2088 (R410A)

- 1. Electrical heating element
- 2. Electronic circulator
- 3. Water return
- 4. BPHE Plate exchanger
- 5. System supply
- 6. Refrigerant circuit connections
- 7. Flow switch
- 8. Expansion vessel
- 9. Automatic air vent
- 10. Electric heating element safety thermostats
- 11. Pressure gauge
- 12. 3 bar safety valve



Size		SHERPA S2 E - Single-phase R32																	
		4			6			8			10								
INDOOR UNIT CODE		02040			02040			02040			02040								
OUTDOOR UNIT CODE		02001			02002			02003			02004								
Compressor frequency		Minimum			Nominal			Maximum			Minimum			Nominal			Maximum		
Precise performance	Heating output	a7/6 - w30/35	(a)		kW	2.08	4.2	5.59	3.22	6.5	8.66	4.17	8.4	11.19	4.96	10	13.32		
	COP	a7/6 - w30/35	(a)		W/W	-	5.15	-	-	4.85	-	-	4.85	-	-	4.65	-		
	Heating output	a2/1 - w30/35	(b)		kW	2.08	4.25	5.38	2.74	5.58	7.06	3.48	7.1	8.99	4.04	8.25	10.44		
	COP	a2/1 - w30/35	(b)		W/W	-	3.9	-	-	3.88	-	-	3.88	-	-	3.6	-		
	Heating output	a7/8 - w30/35	(c)		kW	2.23	4.8	5.23	2.79	6	6.53	3.28	7.05	7.67	3.81	8.2	8.93		
	COP	a7/8 - w30/35	(c)		W/W	-	3	-	-	2.94	-	-	3.04	-	-	2.95	-		
	Heating output	a15/16 - w30/35	(d)		kW	2.17	4.67	5.08	2.26	4.86	5.29	3.25	6.99	7.61	3.25	6.99	7.61		
	COP	a15/16 - w30/35	(d)		W/W	-	2.3	-	-	2.27	-	-	2.34	-	-	2.34	-		
	Heating output (fancoils)	a7/6 - w40/45	(f)		kW	2.08	4.2	5.59	3.15	6.35	8.46	3.99	8.05	10.72	4.89	9.85	13.12		
	COP (fancoils)	a7/6 - w40/45	(f)		W/W	-	3.65	-	-	3.64	-	-	3.73	-	-	3.62	-		
	Heating output (fancoils)	a2/1 - w40/45	(g)		kW	2.11	4.3	5.44	2.77	5.65	7.15	3.68	7.5	9.49	3.9	7.95	10.06		
	COP (fancoils)	a2/1 - w40/45	(g)		W/W	-	3.05	-	-	3.02	-	-	3.15	-	-	3.04	-		
	Heating output (fancoils)	a7/8 - w40/45	(h)		kW	1.93	4.15	4.52	2.56	5.5	5.99	3.09	6.65	7.24	3.63	7.8	8.49		
	COP (fancoils)	a7/8 - w40/45	(h)		W/W	-	2.39	-	-	2.42	-	-	2.45	-	-	2.41	-		
	Heating output (fancoils)	a15/16 - w40/45	(i)		kW	1.92	4.14	4.51	2	4.31	4.69	2.81	6.05	6.59	2.81	6.05	6.59		
	COP (fancoils)	a15/16 - w40/45	(i)		W/W	-	1.79	-	-	1.77	-	-	1.92	-	-	1.92	-		
	Cooling power	a35 - w23/18	(l)		kW	2.31	4.3	5.27	3.46	6.45	7.91	4.48	8.35	10.24	5.47	10.2	12.51		
	EER	a35 - w23/18	(l)		W/W	-	5.6	-	-	4.88	-	-	4.67	-	-	4.25	-		
Cooling output (fancoils)	a35 - w12/7	(m)		kW	2.41	4.5	5.52	3.49	6.5	7.97	3.96	7.38	9.05	4.37	8.15	10			
EER (fancoils)	a35 - w12/7	(m)		W/W	-	3.32	-	-	2.95	-	-	3.02	-	-	2.95	-			
Efficiencies	Energy efficiency class in water heating 35°C	Warmer Climate				A+++			A+++			A+++			A+++				
	SCOP	Warmer Climate				6.52			6.52			6.69			6.69				
	ηs (Seasonal efficiency for space heating)	Warmer Climate		ηs %		257.7			257.7			264.6			264.6				
	Energy efficiency class in water heating 35°C	Average Climate				A+++			A+++			A+++			A+++				
	SCOP	Average Climate				4.77			4.77			4.79			4.79				
	ηs (Seasonal efficiency for space heating)	Average Climate		ηs %		187.7			187.7			188.5			188.5				
	Energy efficiency class in water heating 35°C	Cold Climate				A++			A++			A++			A++				
	SCOP	Cold Climate				4.06			4.06			4.01			4.01				
	ηs (Seasonal efficiency for space heating)	Cold Climate		ηs %		159.5			159.5			157.5			157.5				
	Energy efficiency class in water heating 55°C	Warmer Climate				A+++			A+++			A+++			A+++				
	SCOP	Warmer Climate				4.28			4.28			4.29			4.29				
	ηs (Seasonal efficiency for space heating)	Warmer Climate		ηs %		168.2			168.2			168.5			168.5				
	Energy efficiency class in water heating 55°C	Average Climate				A++			A++			A++			A++				
	SCOP	Average Climate				3.34			3.34			3.28			3.28				
	ηs (Seasonal efficiency for space heating)	Average Climate		ηs %		130.6			130.6			128.0			128.0				
	Energy efficiency class in water heating 55°C	Cold Climate				A+			A+			A+			A+				
	SCOP	Cold Climate				2.77			2.77			2.66			2.66				
	ηs (Seasonal efficiency for space heating)	Cold Climate		ηs %		107.9			107.9			103.5			103.5				
Noise level	Indoor unit sound power					41			41			41			41				
	Indoor unit sound pressure		(n)			35			35			35			35				
	Outdoor unit sound power (nominal)					61			62			63			65				
	Outdoor unit sound pressure (nominal)		(o)			38			39			40			42				
Electrical data	System circulator absorption				W	3 - 87			3 - 87			3 - 87			3 - 87				
	Internal unit electrical power supply				V/ph/Hz	220-240/1/50			220-240/1/50			220-240/1/50			220-240/1/50				
	*Maximum current absorbed indoor unit with additional active heating elements				A	14.1			14.1			14.1			14.1				
	*Maximum power absorbed indoor unit with additional active heating elements				kW	3.22			3.22			3.22			3.22				
	Additional electric heating elements				kW	1.5+1.5			1.5+1.5			1.5+1.5			1.5+1.5				
	External unit electrical power supply				V/ph/Hz	220-240/1/50			220-240/1/50			220-240/1/50			220-240/1/50				
	Outdoor unit maximum absorbed current				A	14			14			19			19				
	Outdoor unit maximum absorbed power				kW	2.65			2.65			3.8			3.8				
Cooling circuit	Compressor type					Twin Rotary DC Inverter 4 poles			Twin Rotary DC Inverter 4 poles			Twin Rotary DC Inverter 6 poles			Twin Rotary DC Inverter 6 poles				
	Refrigerant inlet connection diameter				"	1/4"-5/8"			1/4"-5/8"			3/8"-5/8"			3/8"-5/8"				
	Coolant gas		(p)			R32			R32			R32			R32				
	Global warming potential				GWP	675			675			675			675				
	Coolant gas load				kg	1.55			1.55			1.65			1.65				
	Refrigerant piping length limit	min - max				2 - 29			2 - 29			2 - 30			2 - 30				
Hydraulic data	Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018	max	(q)			29			29			20			20				
	Drinking water - DHW hydraulic connections				"	1"			1"			1"			1"				
	System expansion valve capacity				l	8			8			8			8				

(a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C
(b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C
(c) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 30°C/35°C
(d) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 30°C/35°C
(f) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 40°C/45°C
(g) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C
(h) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 40°C/45°C
(i) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 40°C/45°C

(l) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C
(m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
(n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(o) Sound pressure values measured at a distance of 4 m in free field
(p) Non-airtightly sealed equipment containing fluorinated GAS
(q) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual

Size		SHERPA S2 - Single-phase R410A												
		12			14			16						
INDOOR UNIT CODE		02041			02041			02041						
OUTDOOR UNIT CODE		02005			02006			02007						
Compressor frequency		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum				
Precise performance	Heating output	a7/6 - w30/35	(a)		kW	4.77	12.1	15.79	5.52	14	18.27	6.12	15.5	20.23
	COP	a7/6 - w30/35	(a)		W/W	-	4.42	-	-	4.13	-	-	4.06	-
	Heating output	a2/1 - w30/35	(b)		kW	3.63	9.22	11.51	4.34	11.03	13.77	4.6	11.68	14.59
	COP	a2/1 - w30/35	(b)		W/W	-	3.52	-	-	3.35	-	-	3.28	-
	Heating output	a-7/-8 - w30/35	(c)		kW	3.83	9.96	10.93	4.22	10.99	12.06	4.59	11.94	13.11
	COP	a-7/-8 - w30/35	(c)		W/W	-	2.8	-	-	2.7	-	-	2.64	-
	Heating output	a-15/-16 - w30/35	(d)		kW	2.27	5.9	6.48	2.53	6.58	7.22	2.79	7.26	7.97
	COP	a-15/-16 - w30/35	(d)		W/W	-	2.06	-	-	1.94	-	-	1.92	-
	Heating output (fancoils)	a7/6 - w40/45	(f)		kW	4.68	11.85	15.46	5.54	14.05	18.33	6.33	16.05	20.94
	COP (fancoils)	a7/6 - w40/45	(f)		W/W	-	3.41	-	-	3.19	-	-	3.19	-
	Heating output (fancoils)	a2/1 - w40/45	(g)		kW	3.65	9.26	11.56	4.55	11.55	14.42	4.64	11.78	14.71
	COP (fancoils)	a2/1 - w40/45	(g)		W/W	-	2.77	-	-	2.74	-	-	2.73	-
	Heating output (fancoils)	a-7/-8 - w40/45	(h)		kW	3.65	9.51	10.44	4.37	11.38	12.49	4.39	11.42	12.54
	COP (fancoils)	a-7/-8 - w40/45	(h)		W/W	-	2.22	-	-	2.18	-	-	2.17	-
	Heating output (fancoils)	a-15/-16 - w40/45	(i)		kW	1.92	5.01	5.5	2.15	5.59	6.14	2.37	6.17	6.77
	COP (fancoils)	a-15/-16 - w40/45	(i)		W/W	-	1.66	-	-	1.57	-	-	1.55	-
	Cooling power	a35 - w23/18	(l)		kW	5.51	11.8	14.05	6.07	13	15.48	6.54	14	16.67
	EER	a35 - w23/18	(l)		W/W	-	4.45	-	-	4.02	-	-	3.87	-
	Cooling output (fancoils)	a35 - w12/7	(m)		kW	5.15	11.02	13.13	5.83	12.49	14.88	6	12.85	15.3
	EER (fancoils)	a35 - w12/7	(m)		W/W	-	2.64	-	-	2.46	-	-	2.38	-
Efficiencies	Energy efficiency class in water heating 35°C	Warmer Climate				A+++			A+++			A+++		
	SCOP	Warmer Climate				6.16			5.31			5.28		
	ηs (Seasonal efficiency for space heating)	Warmer Climate		ηs %		245.0			211.0			210.0		
	Energy efficiency class in water heating 35°C	Average Climate				A+++			A++			A++		
	SCOP	Average Climate				4.41			4.23			3.96		
	ηs (Seasonal efficiency for space heating)	Average Climate		ηs %		175.0			168.0			157.0		
	Energy efficiency class in water heating 35°C	Cold Climate				A+			A+			A+		
	SCOP	Cold Climate				3.58			3.33			3.41		
	ηs (Seasonal efficiency for space heating)	Cold Climate		ηs %		142.0			132.0			135.0		
	Energy efficiency class in water heating 55°C	Warmer Climate				A+++			A+++			A+++		
	SCOP	Warmer Climate				4.33			4.18			4.51		
	ηs (Seasonal efficiency for space heating)	Warmer Climate		ηs %		172.0			166.0			179.0		
	Energy efficiency class in water heating 55°C	Average Climate				A++			A++			A++		
	SCOP	Average Climate				3.21			3.23			3.21		
	ηs (Seasonal efficiency for space heating)	Average Climate		ηs %		127.0			128.0			127.0		
	Energy efficiency class in water heating 55°C	Cold Climate				A+			A+			A+		
SCOP	Cold Climate				2.81			2.81			2.81			
ηs (Seasonal efficiency for space heating)	Cold Climate		ηs %		111.0			111.0			111.0			
Noise level	Indoor unit sound power				dB (A)	41			41			41		
	Indoor unit sound pressure		(n)		dB (A)	35			35			35		
	Outdoor unit sound power (nominal)				dB (A)	69			71			72		
	Outdoor unit sound pressure (nominal)		(o)		dB (A)	46			48			49		
Electrical data	System circulator absorption				W	8 - 140			8 - 140			8 - 140		
	Internal unit electrical power supply				V/ph/Hz	220-240/1/50			220-240/1/50			220-240/1/50		
	Maximum current absorbed indoor unit with additional active heating elements				A	27.2			27.2			27.2		
	Maximum power absorbed indoor unit with additional active heating elements				kW	6.22			6.22			6.22		
	Additional electric heating elements				kW	3,0+3,0			3,0+3,0			3,0+3,0		
	External unit electrical power supply				V/ph/Hz	220-240/1/50			220-240/1/50			220-240/1/50		
	Outdoor unit maximum absorbed current				A	27			27			27		
Outdoor unit maximum absorbed power				kW	6			6			6			
Cooling circuit	Compressor type					Twin Rotary DC Inverter 6 poles			Twin Rotary DC Inverter 6 poles			Twin Rotary DC Inverter 6 poles		
	Refrigerant inlet connection diameter				"	3/8"-5/8"			3/8"-5/8"			3/8"-5/8"		
	Coolant gas		(p)			R410A			R410A			R410A		
	Global warming potential				GWP	2088			2088			2088		
	Coolant gas load				kg	3.9			3.9			3.9		
	Refrigerant piping length limit	min - max					2 - 50			2 - 50			2 - 50	
Hydraulic data	Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018	max	(q)			-			-			-		
	Drinking water - DHW hydraulic connections				"	1"			1"			1"		
	System expansion valve capacity				l	8			8			8		

(a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C
(b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C
(c) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 30°C/35°C
(d) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 30°C/35°C
(f) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 40°C/45°C
(g) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C
(h) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 40°C/45°C
(i) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 40°C/45°C

(l) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C
(m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
(n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(o) Sound pressure values measured at a distance of 4 m in free field
(p) Non-airtightly sealed equipment containing fluorinated GAS
(q) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual

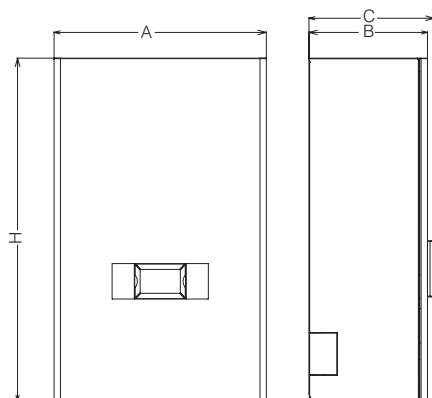
Size		SHERPA S2 - Three-phase R410A												
		12T			14T			16T						
INDOOR UNIT CODE		02041			02041			02041						
OUTDOOR UNIT CODE		02008			02009			02010						
Compressor frequency		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum				
Precise performance	Heating output	a7/6 - w30/35	(a)		kW	4.77	12.1	15.79	5.52	14	18.27	6.12	15.5	20.23
	COP	a7/6 - w30/35	(a)		W/W	-	4.53	-	-	4.31	-	-	4.19	-
	Heating output	a2/1 - w30/35	(b)		kW	3.6	9.14	11.41	4.29	10.91	13.62	4.31	10.95	13.67
	COP	a2/1 - w30/35	(b)		W/W	-	3.6	-	-	3.42	-	-	3.39	-
	Heating output	a-7/-8 - w30/35	(c)		kW	3.72	9.69	10.64	4.31	11.21	12.31	4.32	11.25	12.35
	COP	a-7/-8 - w30/35	(c)		W/W	-	2.75	-	-	2.66	-	-	2.64	-
	Heating output	a-15/-16 - w30/35	(d)		kW	2.38	6.19	6.79	2.74	7.13	7.83	2.93	7.62	8.36
	COP	a-15/-16 - w30/35	(d)		W/W	-	2.17	-	-	2.09	-	-	2.05	-
	Heating output (fancoils)	a7/6 - w40/45	(f)		kW	4.7	11.91	15.54	5.48	13.9	18.14	6.13	15.53	20.26
	COP (fancoils)	a7/6 - w40/45	(f)		W/W	-	3.44	-	-	3.3	-	-	3.18	-
	Heating output (fancoils)	a2/1 - w40/45	(g)		kW	3.65	9.26	11.56	4.51	11.46	14.31	4.97	12.62	15.76
	COP (fancoils)	a2/1 - w40/45	(g)		W/W	-	2.8	-	-	2.7	-	-	2.68	-
	Heating output (fancoils)	a-7/-8 - w40/45	(h)		kW	3.73	9.7	10.65	4.38	11.4	12.51	4.39	11.44	12.56
	COP (fancoils)	a-7/-8 - w40/45	(h)		W/W	-	2.26	-	-	2.17	-	-	2.15	-
	Heating output (fancoils)	a-15/-16 - w40/45	(i)		kW	2.02	5.27	5.78	2.33	6.06	6.65	2.49	6.48	7.11
	COP (fancoils)	a-15/-16 - w40/45	(i)		W/W	-	1.74	-	-	1.67	-	-	1.64	-
	Cooling power	a35 - w23/18	(l)		kW	5.51	11.8	14.05	6.45	13.8	16.44	6.87	14.7	17.51
	EER	a35 - w23/18	(l)		W/W	-	4.59	-	-	4.21	-	-	3.9	-
Cooling output (fancoils)	a35 - w12/7	(m)		kW	5.72	12.25	14.59	5.83	13.24	14.88	6.27	13.43	16	
EER (fancoils)	a35 - w12/7	(m)		W/W	-	2.69	-	-	2.51	-	-	2.41	-	
Efficiencies	Energy efficiency class in water heating 35°C	Warmer Climate				A+++			A+++			A+++		
	SCOP	Warmer Climate				6.41			6.53			6.13		
	ηs (Seasonal efficiency for space heating)	Warmer Climate		ηs %		255.0			260.0			244.0		
	Energy efficiency class in water heating 35°C	Average Climate				A+++			A+++			A++		
	SCOP	Average Climate				4.63			4.51			4.33		
	ηs (Seasonal efficiency for space heating)	Average Climate		ηs %		184.0			179.0			172.0		
	Energy efficiency class in water heating 35°C	Cold Climate				A++			A++			A+		
	SCOP	Cold Climate				3.96			3.78			3.61		
	ηs (Seasonal efficiency for space heating)	Cold Climate		ηs %		157.0			150.0			143.0		
	Energy efficiency class in water heating 55°C	Warmer Climate				A+++			A+++			A+++		
	SCOP	Warmer Climate				4.13			4.21			4.21		
	ηs (Seasonal efficiency for space heating)	Warmer Climate		ηs %		164.0			167.0			167.0		
	Energy efficiency class in water heating 55°C	Average Climate				A++			A++			A++		
	SCOP	Average Climate				3.23			3.28			3.28		
	ηs (Seasonal efficiency for space heating)	Average Climate		ηs %		128.0			130.0			130.0		
	Energy efficiency class in water heating 55°C	Cold Climate				A+			A+			A+		
	SCOP	Cold Climate				2.78			2.73			2.76		
	ηs (Seasonal efficiency for space heating)	Cold Climate		ηs %		110.0			108.0			109.0		
Noise level	Indoor unit sound power				dB (A)	41			41			41		
	Indoor unit sound pressure		(n)		dB (A)	35			35			35		
	Outdoor unit sound power (nominal)				dB (A)	70			72			72		
	Outdoor unit sound pressure (nominal)		(o)		dB (A)	47			49			49		
Electrical data	System circulator absorption				W	8 - 140			8 - 140			8 - 140		
	Internal unit electrical power supply				V/ph/Hz	220-240/1/50			220-240/1/50			220-240/1/50		
	Maximum current absorbed indoor unit with additional active heating elements				A	27.2			27.2			27.2		
	Maximum power absorbed indoor unit with additional active heating elements				kW	6.22			6.22			6.22		
	Additional electric heating elements				kW	3,0+3,0			3,0+3,0			3,0+3,0		
	External unit electrical power supply				V/ph/Hz	380-415/3/50			380-415/3/50			380-415/3/50		
	Outdoor unit maximum absorbed current				A	9			9			9		
	Outdoor unit maximum absorbed power				kW	6			6			6		
Cooling circuit	Compressor type					Twin Rotary DC Inverter 6 poles			Twin Rotary DC Inverter 6 poles			Twin Rotary DC Inverter 6 poles		
	Refrigerant inlet connection diameter				"	3/8"-5/8"			3/8"-5/8"			3/8"-5/8"		
	Coolant gas		(p)			R410A			R410A			R410A		
	Global warming potential				GWP	2088			2088			2088		
	Coolant gas load				kg	4.2			4.2			4.2		
	Refrigerant piping length limit	min - max					2 - 50			2 - 50			2 - 50	
Hydraulic data	Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018	max	(q)			-			-			-		
	Drinking water - DHW hydraulic connections				"	1"			1"			1"		
	System expansion valve capacity				l	8			8			8		

(a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C
(b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C
(c) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 30°C/35°C
(d) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 30°C/35°C
(f) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 40°C/45°C
(g) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C
(h) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 40°C/45°C
(i) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 40°C/45°C

(l) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C
(m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
(n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(o) Sound pressure values measured at a distance of 4 m in free field
(p) Non-airtightly sealed equipment containing fluorinated GAS
(q) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual

INDOOR UNIT

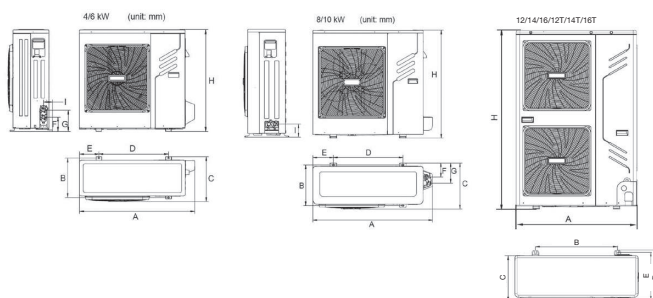
		4	6	8	10	12	14	16	12T	14T	16T
		SMALL			BIG			BIG			
A	mm	500	500	500	500	500	500	500	500	500	500
B	mm	280	280	280	280	280	280	280	280	280	280
C	mm	296	296	296	296	296	296	296	296	296	296
H	mm	810	810	810	810	810	810	810	810	810	810
Net weight	kg	36	36	36	36	38	38	38	38	38	38



OUTDOOR UNIT

		4	6	8	10	12	14	16	12T	14T	16T
		MONOFAN			BI-FAN			BI-FAN			
A	mm	974	974	1075	1075	900	900	900	900	900	900
B	mm	333	333	363	363	600	600	600	600	600	600
C	mm	378	378	411	411	348	348	348	348	348	348
D	mm	590	590	625	625	400	400	400	400	400	400
E	mm	164	164	184	184	360	360	360	360	360	360
F	mm	119	119	126	126	-	-	-	-	-	-
H	mm	857	857	965	965	1327	1327	1327	1327	1327	1327
I	mm	75	75	117	117	-	-	-	-	-	-
Net weight	kg	57	57	67	67	99	99	99	115	115	115

BI-FAN



ACCESSORIES

CODE	DESCRIPTION
B0622 PHASE OUT	3-WAY VALVE KIT FOR DOMESTIC HOT WATER - Compact dimensions - Two-point control
B0623	KIT EXTERNAL AIR PROBE Shielded probe to measure the outdoor air temperature. It is necessary to allow activation of the electric heating element and climatic curves.
B0624	KIT DHW STORAGE TANK SENSOR Probe to measure and directly control the water temperature in the domestic hot water storage tank.
B0917 NEW	SOLAR THERMAL PROBE KIT An additional probe that measures the temperature of the solar thermal pipes, inhibits the heat pump to produce DHW using only the solar thermal system in certain conditions.
B0916 NEW	3-WAY VALVE KIT FOR DOMESTIC HOT WATER - Compact dimensions - Two-point control

NEW

SHERPA TOWER S2

Split heat pump, with integrated 200L storage tank



Compatible with:



DOMESTIC HOT WATER AT 60°C

Sherpa Tower S2 supplies domestic hot water with temperatures up to 60°C.



LOW GWP GAS

In sizes up to 10 kW, it uses the R32 refrigerant, characterised by greater efficiency and a greenhouse effect reduced by almost 70% (compared to R410A).



TOUCH SCREEN USER INTERFACE

Flexible and configurable, it is used to customise your comfort and DHW needs and to optimise energy performance.

FEATURES

Inverter air-water heat pump

Energy efficiency class in average climate heating up to: A+++ (35°C) and A++ (55°C)

Powers available: 4 Powers with refrigerant R32: 4-6-8-10 kW single-phase and 3 Powers with refrigerant R410A: 12-14-16 kW single-phase and three-phase

Supplies DHW with temperature up to 60 °C..

Climatic curves based on the external air temperature: two curves available, one for cooling and one for heating. The climatic curves are used to vary the system temperature according to the external climatic conditions, adjusting the "heat input to the building's thermal needs, in order to achieve energy savings.

Two configurable set points in cooling, **Three configurable set points** in heating (one of which for DHW): the set points can also be selected from a remote contact.

Standard double-stage electric heating elements: configurable as single or double-stage, it can be activated to support the heat pump, checking, via the electronic control, the actual heat output of the heat pump. Each stage is activated according to the actual need for thermal power, in order to optimise electricity consumption.

Daily, holiday and weekly programmer: heating/cooling, DHW, night.

Complete management of the anti-legionella cycles.

Refrigerant gas R32* or R410A*

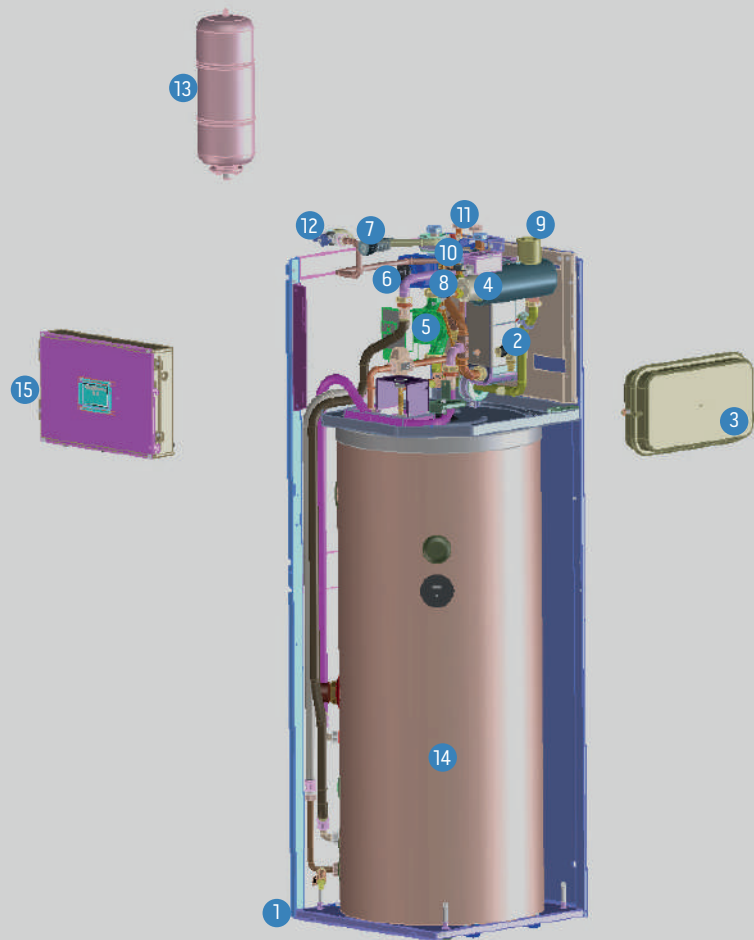
Storage tank 200 L high efficiency.

Components included: system filling valve, 3-way valve and 2 expansion valves (technical water and DHW)

Integrated thermostatic mixer

* Equipment not hermetically sealed containing fluorinated gases with an equivalent GWP of 675 (R32) and 2088 (R410A)

1. Support structure
2. Primary heat exchanger and DHW
3. System circuit expansion vessel
4. Electric heating elements manifold (heating elements used for back up and DHW)
5. Circulation pump
6. Three-way valve
7. Pressure gauge
8. Flow switch
9. Automatic air vent
10. Refrigerant circuit connections
11. Hydraulic connections
12. System filling valve
13. DHW expansion valve
14. Domestic hot water storage tank
15. Electrical panel



Size		SHERPA TOWER S2 E - Single-phase R32																	
		4			6			8			10								
INDOOR UNIT CODE		02046			02046			02046			02046								
OUTDOOR UNIT CODE		02001			02002			02003			02004								
Compressor frequency		Minimum			Nominal			Maximum			Minimum			Nominal			Maximum		
Precise performance	Heating output	a7/6 - w30/35	(a)		kW	2.08	4.2	5.59	3.22	6.5	8.66	4.17	8.4	11.19	4.96	10	13.32		
	COP	a7/6 - w30/35	(a)		W/W	-	5.15	-	-	4.85	-	-	4.85	-	-	4.65	-		
	Heating output	a2/1 - w30/35	(b)		kW	2.08	4.25	5.38	2.74	5.58	7.06	3.48	7.1	8.99	4.04	8.25	10.44		
	COP	a2/1 - w30/35	(b)		W/W	-	3.9	-	-	3.88	-	-	3.88	-	-	3.6	-		
	Heating output	a-7/-8 - w30/35	(c)		kW	2.23	4.8	5.23	2.79	6	6.53	3.28	7.05	7.67	3.81	8.2	8.93		
	COP	a-7/-8 - w30/35	(c)		W/W	-	3	-	-	2.94	-	-	3.04	-	-	2.95	-		
	Heating output	a-15/-16 - w30/35	(d)		kW	2.17	4.67	5.08	2.26	4.86	5.29	3.25	6.99	7.61	3.25	6.99	7.61		
	COP	a-15/-16 - w30/35	(d)		W/W	-	2.3	-	-	2.27	-	-	2.34	-	-	2.34	-		
	Heating output (fancoils)	a7/6 - w40/45	(f)		kW	2.08	4.2	5.59	3.15	6.35	8.46	3.99	8.05	10.72	4.89	9.85	13.12		
	COP (fancoils)	a7/6 - w40/45	(f)		W/W	-	3.65	-	-	3.64	-	-	3.73	-	-	3.62	-		
	Heating output (fancoils)	a2/1 - w40/45	(g)		kW	2.11	4.3	5.44	2.77	5.65	7.15	3.68	7.5	9.49	3.9	7.95	10.06		
	COP (fancoils)	a2/1 - w40/45	(g)		W/W	-	3.05	-	-	3.02	-	-	3.15	-	-	3.04	-		
	Heating output (fancoils)	a-7/-8 - w40/45	(h)		kW	1.93	4.15	4.52	2.56	5.5	5.99	3.09	6.65	7.24	3.63	7.8	8.49		
	COP (fancoils)	a-7/-8 - w40/45	(h)		W/W	-	2.39	-	-	2.42	-	-	2.45	-	-	2.41	-		
	Heating output (fancoils)	a-15/-16 - w40/45	(i)		kW	1.92	4.14	4.51	2	4.31	4.69	2.81	6.05	6.59	2.81	6.05	6.59		
	COP (fancoils)	a-15/-16 - w40/45	(i)		W/W	-	1.79	-	-	1.77	-	-	1.92	-	-	1.92	-		
	Cooling power	a35 - w23/18	(l)		kW	2.31	4.3	5.27	3.46	6.45	7.91	4.48	8.35	10.24	5.47	10.2	12.51		
	EER	a35 - w23/18	(l)		W/W	-	5.6	-	-	4.88	-	-	4.67	-	-	4.25	-		
Cooling output (fancoils)	a35 - w12/7	(m)		kW	2.41	4.5	5.52	3.49	6.5	7.97	3.96	7.38	9.05	4.37	8.15	10			
EER (fancoils)	a35 - w12/7	(m)		W/W	-	3.32	-	-	2.95	-	-	3.02	-	-	2.95	-			
Efficiencies	Energy efficiency class in water heating 35°C	Warmer Climate				A+++			A+++			A+++			A+++				
	SCOP	Warmer Climate				6.52			6.52			6.69			6.69				
	ηs (Seasonal efficiency for space heating)	Warmer Climate		ηs %		257.7			257.7			264.6			264.6				
	Energy efficiency class in water heating 35°C	Average Climate				A+++			A+++			A+++			A+++				
	SCOP	Average Climate				4.77			4.77			4.79			4.79				
	ηs (Seasonal efficiency for space heating)	Average Climate		ηs %		187.7			187.7			188.5			188.5				
	Energy efficiency class in water heating 35°C	Cold Climate				A++			A++			A++			A++				
	SCOP	Cold Climate				4.06			4.06			4.01			4.01				
	ηs (Seasonal efficiency for space heating)	Cold Climate		ηs %		159.5			159.5			157.5			157.5				
	Energy efficiency class in water heating 55°C	Warmer Climate				A+++			A+++			A+++			A+++				
	SCOP	Warmer Climate				4.28			4.28			4.29			4.29				
	ηs (Seasonal efficiency for space heating)	Warmer Climate		ηs %		168.2			168.2			168.5			168.5				
	Energy efficiency class in water heating 55°C	Average Climate				A++			A++			A++			A++				
	SCOP	Average Climate				3.34			3.34			3.28			3.28				
	ηs (Seasonal efficiency for space heating)	Average Climate		ηs %		130.6			130.6			128.0			128.0				
	Energy efficiency class in water heating 55°C	Cold Climate				A+			A+			A+			A+				
	SCOP	Cold Climate				2.77			2.77			2.66			2.66				
	ηs (Seasonal efficiency for space heating)	Cold Climate		ηs %		107.9			107.9			103.5			103.5				
Noise level	Indoor unit sound power				dB (A)	41			41			41			41				
	Indoor unit sound pressure		(n)		dB (A)	35			35			35			35				
	Outdoor unit sound power (nominal)				dB (A)	61			62			63			65				
	Outdoor unit sound pressure (nominal)		(o)		dB (A)	38			39			40			42				
Electrical data	System circulator absorption				W	3 - 87			3 - 87			3 - 87			3 - 87				
	Internal unit electrical power supply				V/ph/Hz	220-240/1/50			220-240/1/50			220-240/1/50			220-240/1/50				
	*Maximum current absorbed indoor unit with additional active heating elements				A	14.1			14.1			14.1			14.1				
	*Maximum power absorbed indoor unit with additional active heating elements				kW	3.22			3.22			3.22			3.22				
	Additional electric heating elements				kW	1.5+1.5			1.5+1.5			1.5+1.5			1.5+1.5				
	External unit electrical power supply				V/ph/Hz	220-240/1/50			220-240/1/50			220-240/1/50			220-240/1/50				
	Outdoor unit maximum absorbed current				A	14			14			19			19				
	Outdoor unit maximum absorbed power				kW	2.65			2.65			3.8			3.8				
Cooling circuit	Compressor type					Twin Rotary DC Inverter 4 poles			Twin Rotary DC Inverter 4 poles			Twin Rotary DC Inverter 6 poles			Twin Rotary DC Inverter 6 poles				
	Refrigerant inlet connection diameter				"	1/4"-5/8"			1/4"-5/8"			3/8"-5/8"			3/8"-5/8"				
	Coolant gas		(p)			R32			R32			R32			R32				
	Global warming potential				GWP	675			675			675			675				
	Coolant gas load				kg	1.55			1.55			1.65			1.65				
	Refrigerant piping length limit	min - max					2 - 29			2 - 29			2 - 30			2 - 30			
Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018	max	(q)				29			29			20			20				
Hydraulic data	Drinking water - DHW hydraulic connections				"	1"			1"			1"			1"				
	System expansion valve capacity				l	8			8			8			8				
Integrated boiler	Load profile according to EN16147					XL			XL			XL			XL				
	DHW production energy efficiency class	Average Climate				A			A			A			A				
	-	-				-			-			-			-				
	-	-				-			-			-			-				
	Boiler volume				l	200			200			200			200				
	Boiler interior surface material					DD12 glazed steel S235JR			DD12 glazed steel S235JR			DD12 glazed steel S235JR			DD12 glazed steel S235JR				
	Heat exchanger in the boiler				m ²	2.4			2.4			2.4			2.4				
	Type and thickness of boiler insulation					Hard expanded polyurethane 55 mm			Hard expanded polyurethane 55 mm			Hard expanded polyurethane 55 mm			Hard expanded polyurethane 55 mm				
	Specific dispersion				W/K	2			2			2			2				
	DHW expansion tank capacity				l	7			7			7			7				
DHW hydraulic connections				"	3/4"			3/4"			3/4"			3/4"					

(a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C
(b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C
(c) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 30°C/35°C
(d) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 30°C/35°C
(f) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 40°C/45°C
(g) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C
(h) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 40°C/45°C
(i) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 40°C/45°C

(l) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C
(m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
(n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(o) Sound pressure values measured at a distance of 4 m in free field
(p) Non-airtightly sealed equipment containing fluorinated GAS
(q) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual

Size		SHERPA TOWER S2 - Single-phase R410A													
		12			14			16							
INDOOR UNIT CODE		02047			02047			02047							
OUTDOOR UNIT CODE		02005			02006			02007							
Compressor frequency		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum					
Precise performance	Heating output	a7/6 - w30/35	(a)		kW	4.77	12.1	15.79	5.52	14	18.27	6.12	15.5	20.23	
	COP	a7/6 - w30/35	(a)		W/W	-	4.42	-	-	4.13	-	-	4.06	-	
	Heating output	a2/1 - w30/35	(b)		kW	3.63	9.22	11.51	4.34	11.03	13.77	4.6	11.68	14.59	
	COP	a2/1 - w30/35	(b)		W/W	-	3.52	-	-	3.35	-	-	3.28	-	
	Heating output	a-7/-8 - w30/35	(c)		kW	3.83	9.96	10.93	4.22	10.99	12.06	4.59	11.94	13.11	
	COP	a-7/-8 - w30/35	(c)		W/W	-	2.8	-	-	2.7	-	-	2.64	-	
	Heating output	a-15/-16 - w30/35	(d)		kW	2.27	5.9	6.48	2.53	6.58	7.22	2.79	7.26	7.97	
	COP	a-15/-16 - w30/35	(d)		W/W	-	2.06	-	-	1.94	-	-	1.92	-	
	Heating output (fancoils)	a7/6 - w40/45	(f)		kW	4.68	11.85	15.46	5.54	14.05	18.33	6.33	16.05	20.94	
	COP (fancoils)	a7/6 - w40/45	(f)		W/W	-	3.41	-	-	3.19	-	-	3.19	-	
	Heating output (fancoils)	a2/1 - w40/45	(g)		kW	3.65	9.26	11.56	4.55	11.55	14.42	4.64	11.78	14.71	
	COP (fancoils)	a2/1 - w40/45	(g)		W/W	-	2.77	-	-	2.74	-	-	2.73	-	
	Heating output (fancoils)	a-7/-8 - w40/45	(h)		kW	3.65	9.51	10.44	4.37	11.38	12.49	4.39	11.42	12.54	
	COP (fancoils)	a-7/-8 - w40/45	(h)		W/W	-	2.22	-	-	2.18	-	-	2.17	-	
	Heating output (fancoils)	a-15/-16 - w40/45	(i)		kW	1.92	5.01	5.5	2.15	5.59	6.14	2.37	6.17	6.77	
	COP (fancoils)	a-15/-16 - w40/45	(i)		W/W	-	1.66	-	-	1.57	-	-	1.55	-	
Efficiencies	Cooling power	a35 - w23/18	(l)		kW	5.51	11.8	14.05	6.07	13	15.48	6.54	14	16.67	
	EER	a35 - w23/18	(l)		W/W	-	4.45	-	-	4.02	-	-	3.87	-	
	Cooling output (fancoils)	a35 - w12/7	(m)		kW	5.15	11.02	13.13	5.83	12.49	14.88	6	12.85	15.3	
	EER (fancoils)	a35 - w12/7	(m)		W/W	-	2.64	-	-	2.46	-	-	2.38	-	
	Energy efficiency class in water heating 35°C	Warmer Climate													
	SCOP	Warmer Climate													
	ηs (Seasonal efficiency for space heating)	Warmer Climate		ηs %											
	Energy efficiency class in water heating 35°C	Average Climate													
	SCOP	Average Climate													
	ηs (Seasonal efficiency for space heating)	Average Climate		ηs %											
	Energy efficiency class in water heating 35°C	Cold Climate													
	SCOP	Cold Climate													
	ηs (Seasonal efficiency for space heating)	Cold Climate		ηs %											
	Noise level	Energy efficiency class in water heating 55°C	Warmer Climate												
		SCOP	Warmer Climate												
		ηs (Seasonal efficiency for space heating)	Warmer Climate		ηs %										
Energy efficiency class in water heating 55°C		Average Climate													
SCOP		Average Climate													
ηs (Seasonal efficiency for space heating)		Average Climate		ηs %											
Energy efficiency class in water heating 55°C		Cold Climate													
SCOP		Cold Climate													
ηs (Seasonal efficiency for space heating)		Cold Climate		ηs %											
Indoor unit sound power															
Indoor unit sound pressure			(n)												
Outdoor unit sound power (nominal)															
Outdoor unit sound pressure (nominal)			(o)												
Electrical data		System circulator absorption													
		Internal unit electrical power supply				V/ph/Hz									
		Maximum current absorbed indoor unit with additional active heating elements				A									
	Maximum power absorbed indoor unit with additional active heating elements				kW										
	Additional electric heating elements				kW										
	External unit electrical power supply				V/ph/Hz										
	Outdoor unit maximum absorbed current				A										
	Outdoor unit maximum absorbed power				kW										
Cooling circuit	Compressor type														
	Refrigerant inlet connection diameter				"										
	Coolant gas		(p)												
	Global warming potential				GWP										
Hydraulic data	Coolant gas load				kg										
	Refrigerant piping length limit	min - max													
	Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018	max	(q)												
	Drinking water - DHW hydraulic connections														
Integrated boiler	System expansion valve capacity				l										
	Load profile according to EN16147														
	DHW production energy efficiency class	Average Climate													
	-	-													
	-	-													
	Boiler volume				l										
	Boiler interior surface material														
	Heat exchanger in the boiler				m2										
Fan coil units	Type and thickness of boiler insulation														
	Specific dispersion				W/K										
	DHW expansion tank capacity				l										
	DHW hydraulic connections				"										

(a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C
(b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C
(c) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 30°C/35°C
(d) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 30°C/35°C
(f) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 40°C/45°C
(g) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C
(h) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 40°C/45°C
(i) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 40°C/45°C

(l) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C
(m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
(n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(o) Sound pressure values measured at a distance of 4 m in free field
(p) Non-air-tightedly sealed equipment containing fluorinated GAS
(q) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual

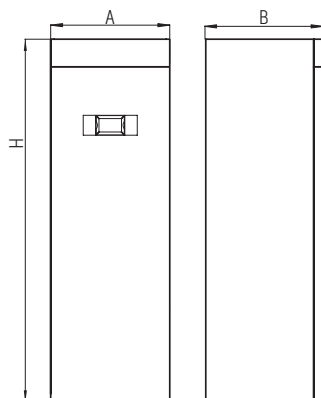
Size		SHERPA TOWER S2 - Three-phase R410A												
		12T			14T			16T						
INDOOR UNIT CODE		02047			02047			02047						
OUTDOOR UNIT CODE		02008			02009			02010						
Compressor frequency		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum				
Precise performance	Heating output	a7/6 - w30/35	(a)		kW	4.77	12.1	15.79	5.52	14	18.27	6.12	15.5	20.23
	COP	a7/6 - w30/35	(a)		W/W	-	4.53	-	-	4.31	-	-	4.19	-
	Heating output	a2/1 - w30/35	(b)		kW	3.6	9.14	11.41	4.29	10.91	13.62	4.31	10.95	13.67
	COP	a2/1 - w30/35	(b)		W/W	-	3.6	-	-	3.42	-	-	3.39	-
	Heating output	a-7/-8 - w30/35	(c)		kW	3.72	9.69	10.64	4.31	11.21	12.31	4.32	11.25	12.35
	COP	a-7/-8 - w30/35	(c)		W/W	-	2.75	-	-	2.66	-	-	2.64	-
	Heating output	a-15/-16 - w30/35	(d)		kW	2.38	6.19	6.79	2.74	7.13	7.83	2.93	7.62	8.36
	COP	a-15/-16 - w30/35	(d)		W/W	-	2.17	-	-	2.09	-	-	2.05	-
	Heating output (fancoils)	a7/6 - w40/45	(f)		kW	4.7	11.91	15.54	5.48	13.9	18.14	6.13	15.53	20.26
	COP (fancoils)	a7/6 - w40/45	(f)		W/W	-	3.44	-	-	3.3	-	-	3.18	-
	Heating output (fancoils)	a2/1 - w40/45	(g)		kW	3.65	9.26	11.56	4.51	11.46	14.31	4.97	12.62	15.76
	COP (fancoils)	a2/1 - w40/45	(g)		W/W	-	2.8	-	-	2.7	-	-	2.68	-
	Heating output (fancoils)	a-7/-8 - w40/45	(h)		kW	3.73	9.7	10.65	4.38	11.4	12.51	4.39	11.44	12.56
	COP (fancoils)	a-7/-8 - w40/45	(h)		W/W	-	2.26	-	-	2.17	-	-	2.15	-
	Heating output (fancoils)	a-15/-16 - w40/45	(i)		kW	2.02	5.27	5.78	2.33	6.06	6.65	2.49	6.48	7.11
	COP (fancoils)	a-15/-16 - w40/45	(i)		W/W	-	1.74	-	-	1.67	-	-	1.64	-
Cooling power	a35 - w23/18	(l)		kW	5.51	11.8	14.05	6.45	13.8	16.44	6.87	14.7	17.51	
EER	a35 - w23/18	(l)		W/W	-	4.59	-	-	4.21	-	-	3.9	-	
Cooling output (fancoils)	a35 - w12/7	(m)		kW	5.72	12.25	14.59	5.83	13.24	14.88	6.27	13.43	16	
EER (fancoils)	a35 - w12/7	(m)		W/W	-	2.69	-	-	2.51	-	-	2.41	-	
Efficiencies	Energy efficiency class in water heating 35°C	Warmer Climate				A+++			A+++			A+++		
	SCOP	Warmer Climate				6.41			6.53			6.13		
	ηs (Seasonal efficiency for space heating)	Warmer Climate		ηs %		255.0			260.0			244.0		
	Energy efficiency class in water heating 35°C	Average Climate				A+++			A+++			A++		
	SCOP	Average Climate				4.63			4.51			4.33		
	ηs (Seasonal efficiency for space heating)	Average Climate		ηs %		184.0			179.0			172.0		
	Energy efficiency class in water heating 35°C	Cold Climate				A++			A++			A+		
	SCOP	Cold Climate				3.96			3.78			3.61		
	ηs (Seasonal efficiency for space heating)	Cold Climate		ηs %		157.0			150.0			143.0		
	Energy efficiency class in water heating 55°C	Warmer Climate				A+++			A+++			A+++		
	SCOP	Warmer Climate				4.13			4.21			4.21		
	ηs (Seasonal efficiency for space heating)	Warmer Climate		ηs %		164.0			167.0			167.0		
	Energy efficiency class in water heating 55°C	Average Climate				A++			A++			A++		
	SCOP	Average Climate				3.23			3.28			3.28		
	ηs (Seasonal efficiency for space heating)	Average Climate		ηs %		128.0			130.0			130.0		
	Energy efficiency class in water heating 55°C	Cold Climate				A+			A+			A+		
SCOP	Cold Climate				2.78			2.73			2.76			
ηs (Seasonal efficiency for space heating)	Cold Climate		ηs %		110.0			108.0			109.0			
Noise level	Indoor unit sound power				dB (A)	41			41			41		
	Indoor unit sound pressure		(n)		dB (A)	35			35			35		
	Outdoor unit sound power (nominal)				dB (A)	70			72			72		
	Outdoor unit sound pressure (nominal)		(o)		dB (A)	47			49			49		
Electrical data	System circulator absorption				W	8 - 140			8 - 140			8 - 140		
	Internal unit electrical power supply				V/ph/Hz	220-240/1/50			220-240/1/50			220-240/1/50		
	Maximum current absorbed indoor unit with additional active heating elements				A	27.2			27.2			27.2		
	Maximum power absorbed indoor unit with additional active heating elements				kW	6.22			6.22			6.22		
	Additional electric heating elements				kW	3,0+3,0			3,0+3,0			3,0+3,0		
	External unit electrical power supply				V/ph/Hz	380-415/3/50			380-415/3/50			380-415/3/50		
	Outdoor unit maximum absorbed current				A	9			9			9		
	Outdoor unit maximum absorbed power				kW	6			6			6		
Cooling circuit	Compressor type					Twin Rotary DC Inverter 6 poles			Twin Rotary DC Inverter 6 poles			Twin Rotary DC Inverter 6 poles		
	Refrigerant inlet connection diameter				"	3/8"-5/8"			3/8"-5/8"			3/8"-5/8"		
	Coolant gas		(p)			R410A			R410A			R410A		
	Global warming potential				GWP	2088			2088			2088		
	Coolant gas load				kg	4.2			4.2			4.2		
Refrigerant piping length limit	min - max					2 - 50			2 - 50			2 - 50		
Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018	max	(q)				-			-			-		
Hydraulic data	Drinking water - DHW hydraulic connections				"	1"			1"			1"		
	System expansion valve capacity				l	8			8			8		
	Load profile according to EN16147					XL			XL			XL		
Integrated boiler	DHW production energy efficiency class	Average Climate				A			A			A		
	-	-				-			-			-		
	-	-				-			-			-		
	Boiler volume				l	200			200			200		
	Boiler interior surface material					DD12 glazed steel S235JR			DD12 glazed steel S235JR			DD12 glazed steel S235JR		
	Heat exchanger in the boiler			m2		2.4			2.4			2.4		
	Type and thickness of boiler insulation					Hard expanded polyurethane 55 mm			Hard expanded polyurethane 55 mm			Hard expanded polyurethane 55 mm		
	Specific dispersion				W/K	2			2			2		
DHW expansion tank capacity				l	7			7			7			
DHW hydraulic connections				"	3/4"			3/4"			3/4"			

(a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C
(b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C
(c) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 30°C/35°C
(d) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 30°C/35°C
(f) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 40°C/45°C
(g) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C
(h) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 40°C/45°C
(i) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 40°C/45°C

(l) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C
(m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
(n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(o) Sound pressure values measured at a distance of 4 m in free field
(p) Non-air-tightly sealed equipment containing fluorinated GAS
(q) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual

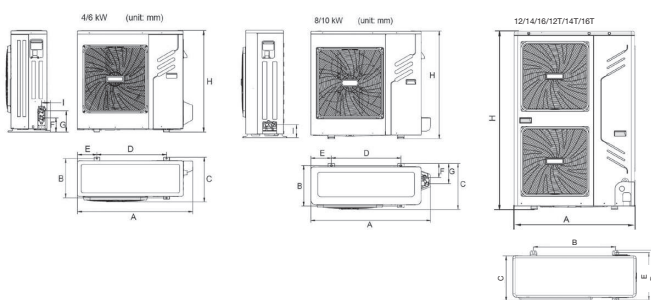
INDOOR UNIT

		4	6	8	10	12	14	16	12T	14T	16T
		SMALL		SMALL		BIG		BIG			
A	mm	600	600	600	600	600	600	600	600	600	600
B	mm	600	600	600	600	600	600	600	600	600	600
H	mm	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980
Net weight	kg	183	183	183	183	185	185	185	185	185	185



OUTDOOR UNIT

		4	6	8	10	12	14	16	12T	14T	16T
		MONOFAN				BI-FAN		BI-FAN			
A	mm	974	974	1075	1075	900	900	900	900	900	900
B	mm	333	333	363	363	600	600	600	600	600	600
C	mm	378	378	411	411	348	348	348	348	348	348
D	mm	590	590	625	625	400	400	400	400	400	400
E	mm	164	164	184	184	360	360	360	360	360	360
F	mm	119	119	126	126	-	-	-	-	-	-
G	mm	179	179	179	179	-	-	-	-	-	-
H	mm	857	857	965	965	1327	1327	1327	1327	1327	1327
I	mm	75	75	117	117	-	-	-	-	-	-
Net weight	kg	57	57	67	67	99	99	99	115	115	115



ACCESSORIES

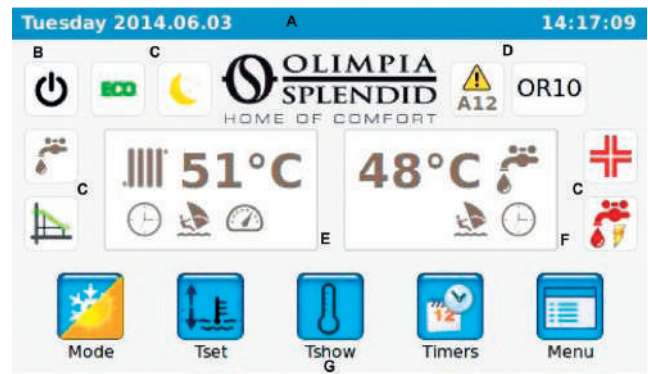
CODE	DESCRIPTION
B0623	KIT EXTERNAL AIR PROBE Shielded probe to measure the outdoor air temperature. It is necessary to allow activation of the electric heating element and climatic curves.

TOUCH SCREEN INTERFACE SHERPA AQUADUE S2 - SHERPA AQUADUE TOWER S2 - SHERPA S2 - SHERPA TOWER S2

HOME PAGE

The home page shows the following information:

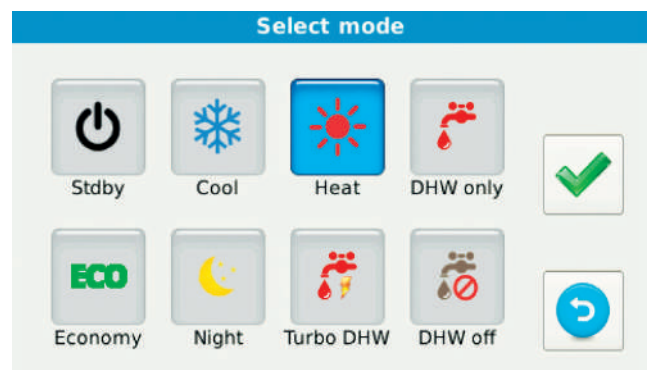
- A - System date and time
- B - Current mode active (Stand-by, cooling, heating, DHW only)
- C - Active functions (Climate Curve, Turbo DHW, DHW OFF, anti-legionella, Night, ECO)
- D - Alarms/overrides in progress (flashing)
- E - System water temperature values, system active timers, Holiday, Rating
- F - DHW tank water temperature values, domestic hot water timers active, Holiday
- G - Activation icons:
 Mode: operation
 Tset: system and domestic hot water set point
 Tshow: temperature probe reading
 Timers: hourly programming
 Menu: machine functions



OPERATING MODE

By touching the Mode icon, the page for configuring the operating mode is accessed. This page shows the selection icons for all the available operating modes.

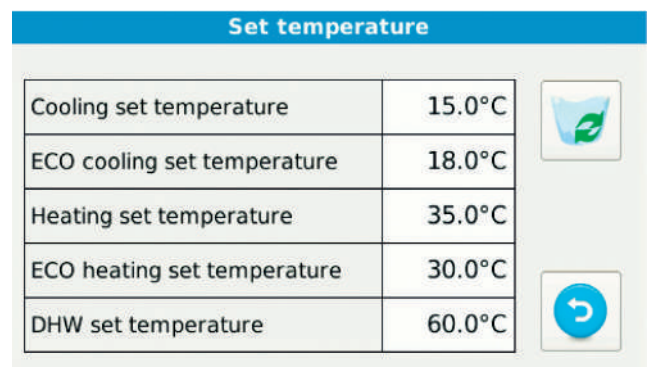
- Stand-by, the system is off
- Cooling, the system produces cold water until the set-point is reached (predetermined or dynamic set point defined by climatic curve)
- Heating, the system produces hot water until the set-point is reached (predetermined or dynamic set point defined by the climatic curve)
- ECO, the system produces water until the ECO energy saving set-point is reached (if activate, the climate control the ECO set point is not considered)
- Night, the system limits the output and noise of the external unit
- DHW Turbo, the system produces domestic hot water using all the power of the outdoor unit up to the set limit.



SET POINT

By touching the Tset icon, it is possible to access the set point configuration page.

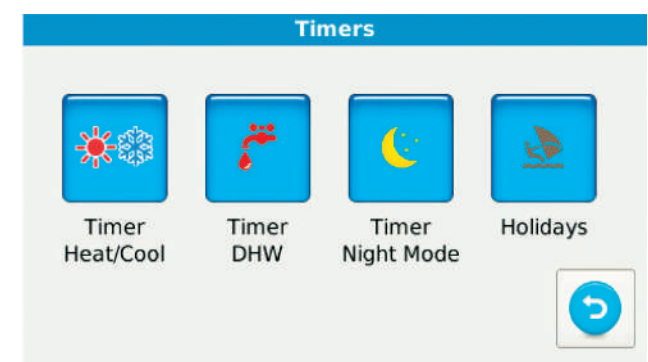
- Cooling water temperature
 - ECO cooling water temperature
 - Heating water temperature
 - ECO heating water temperature
 - Domestic hot water temperature (external storage tank set point).
- The cooling and heating set points are not considered by the controller if the set-point with climatic curve mode has been enabled.
 The set point values are modified with a simple touch of the set value.



TIMERS

Tapping the Timers icon accesses the available schedules.

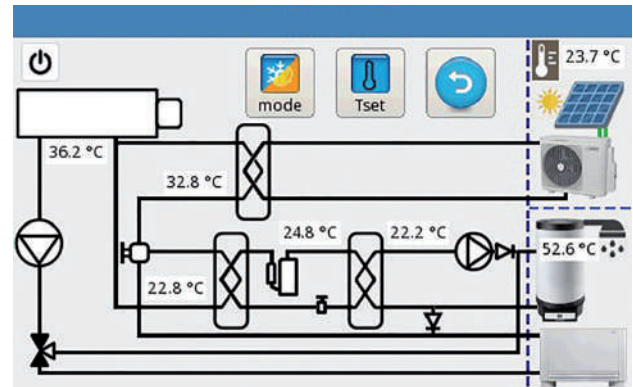
- Heating/cooling timer
 - DHW timer
 - Night timer
 - Holidays
- Touching the "Heating/Cooling Timer" icon or "DHW timer" icon or "Night timer" icon, the page appears where it is possible to view the activation bands of each timer.



PHOTOVOLTAIC CONTACT

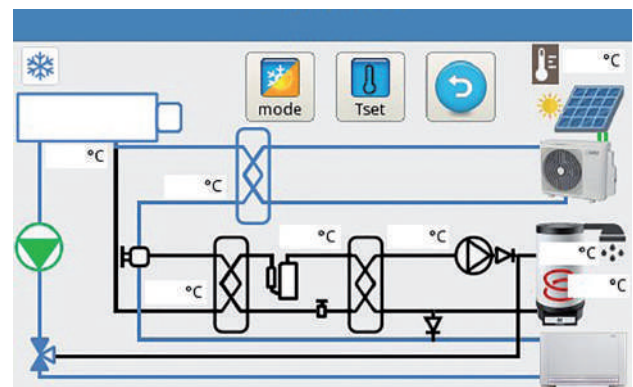
The machine has a contact that is used to activate a setpoint delta on the DHW, heating and cooling to accumulate thermal energy when there is an electrical overproduction from the photovoltaic system.

The photovoltaic function therefore allows the heat pump to force the accumulation of thermal energy in the system. Energy storage is obtained by adding a delta to the main circuit water temperature (colder water if in cooling mode, warmer water if in heating mode) and to the water contained in the DHW tank. Thanks to the possibility of storing domestic hot water at up to a maximum of 75°C, the Aquadue versions are used to store a large quantity of energy, thereby maximising photovoltaic overproduction.



SOLAR THERMAL PROBE

An additional probe that detects the temperature of the solar thermal pipes, inhibits the heat pump to produce DHW only with solar thermal if the delivery temperature of the solar panels is above a certain settable value or the difference between this temperature and the set point of the storage tank is higher than a certain settable value.



CLIMATIC CURVES

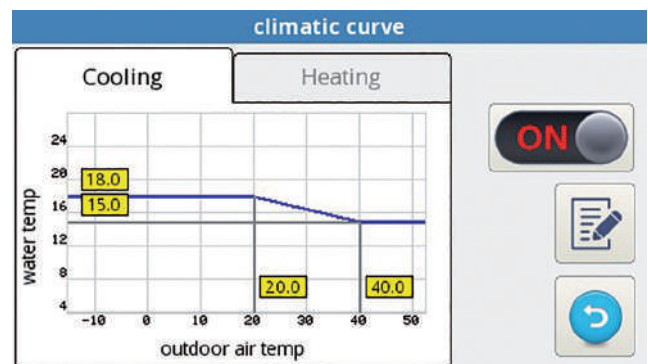
To optimise energy savings, two climatic curves are available, one for heating and one for cooling. They are used to adjust the water temperature to the outside air temperature and therefore to the thermal load.

The information displayed is:

- Cooling climatic curve and heating climatic curve diagrams,
- Values of the setting parameters of each curve
- It is possible to activate and deactivate each Climatic function
- It is possible to modify the parameters of the climatic curves

The characteristic parameters of each curve are:

- External air temperature for maximum water temperature
- Maximum water temperature
- External air temperature for minimum water temperature
- Minimum water temperature.



LOW TEMPERATURE ACTIVATION

On site when the system water is below 12°C, it is possible to activate the heating elements of the heat pump to allow the screed to be heated in the case of a heating system. By setting the specific parameter from the service menu, the installer enables one or two heating elements for low temperature start-up.

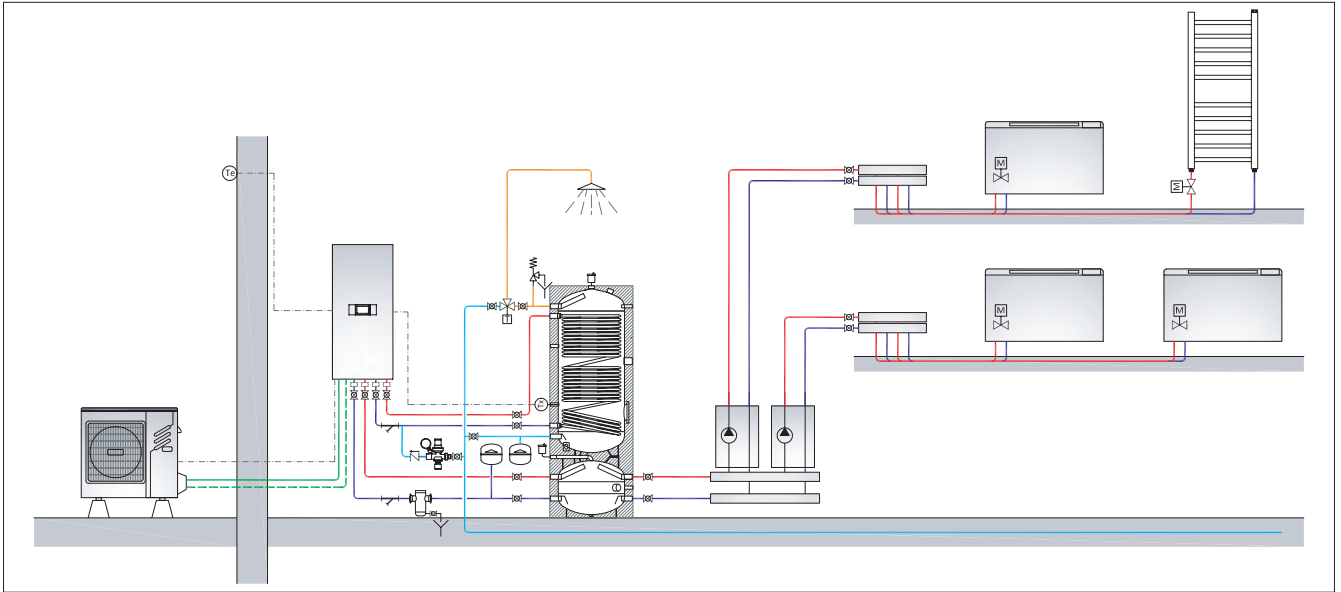
CHOICE OF COMMUNICATION PROTOCOL

Possibility of choosing between ModBus RTU or ASCII, for coupling with SIOS Control. By setting the specific parameter from the service menu, the installer enables communication with Modbus RTU protocol or with ASCII protocol.

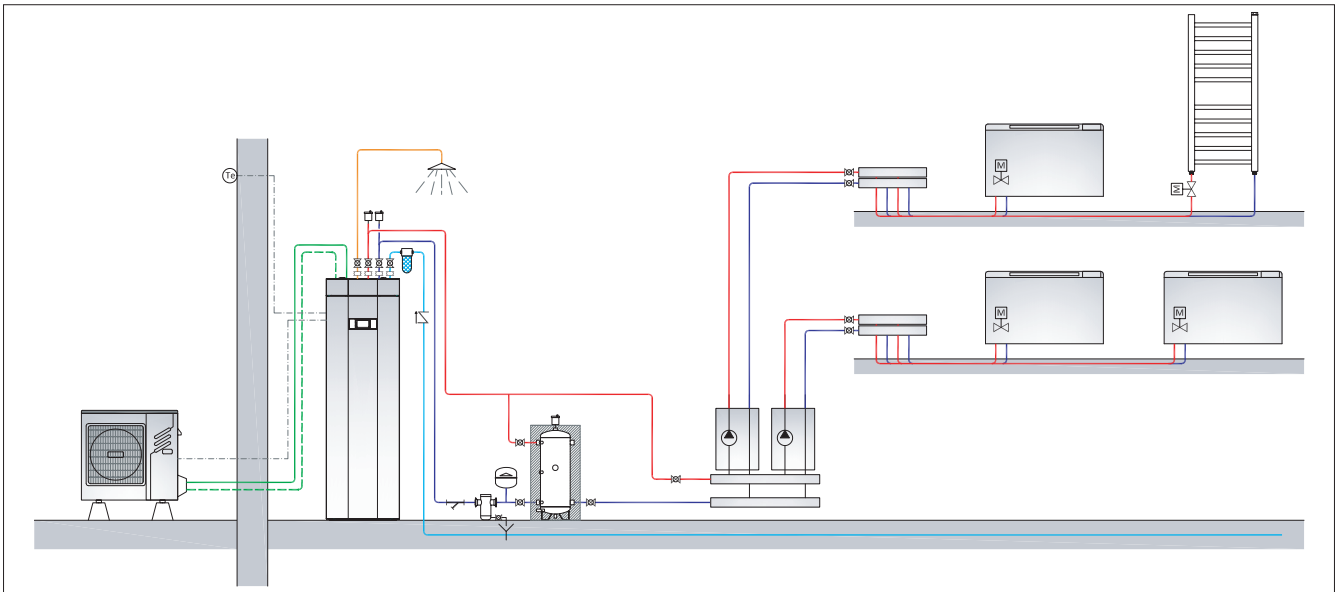
SYSTEM DIAGRAMS

SHERPA AQUADUE S2 - SHERPA AQUADUE TOWER S2

SHERPA AQUADUE S2 heat pump (heating and air conditioning; production of high temperature DHW); Bi2 SLR fan coil radiator terminals; example of a two-zone configuration with a simple manifold and integrated inertial storage (used as a hydraulic separator) for the air conditioning system.

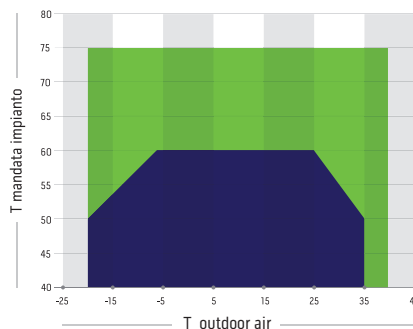


SHERPA AQUADUE TOWER S2 heat pump (heating and air conditioning; production of high temperature DHW); Bi2 SLR fan coil radiator terminals; example of a two-zone configuration with a simple manifold and inertial storage (used as a hydraulic separator) for the air conditioning system.



PERFORMANCE AND ENERGY ADVANTAGES

In adverse climatic conditions, traditional heat pumps reduce the thermal output by producing water at a lower temperature. Sherpa AQUADUE® in addition to extending the operating area guarantees a constant thermal yield, in the production of domestic hot water.



● Optimal operating area of traditional heat pumps

● Aquadue® technology extended operating area
The double cooling circuit is used to reach higher DHW production temperatures and thanks to the water-water circuit independent of the external air temperature.

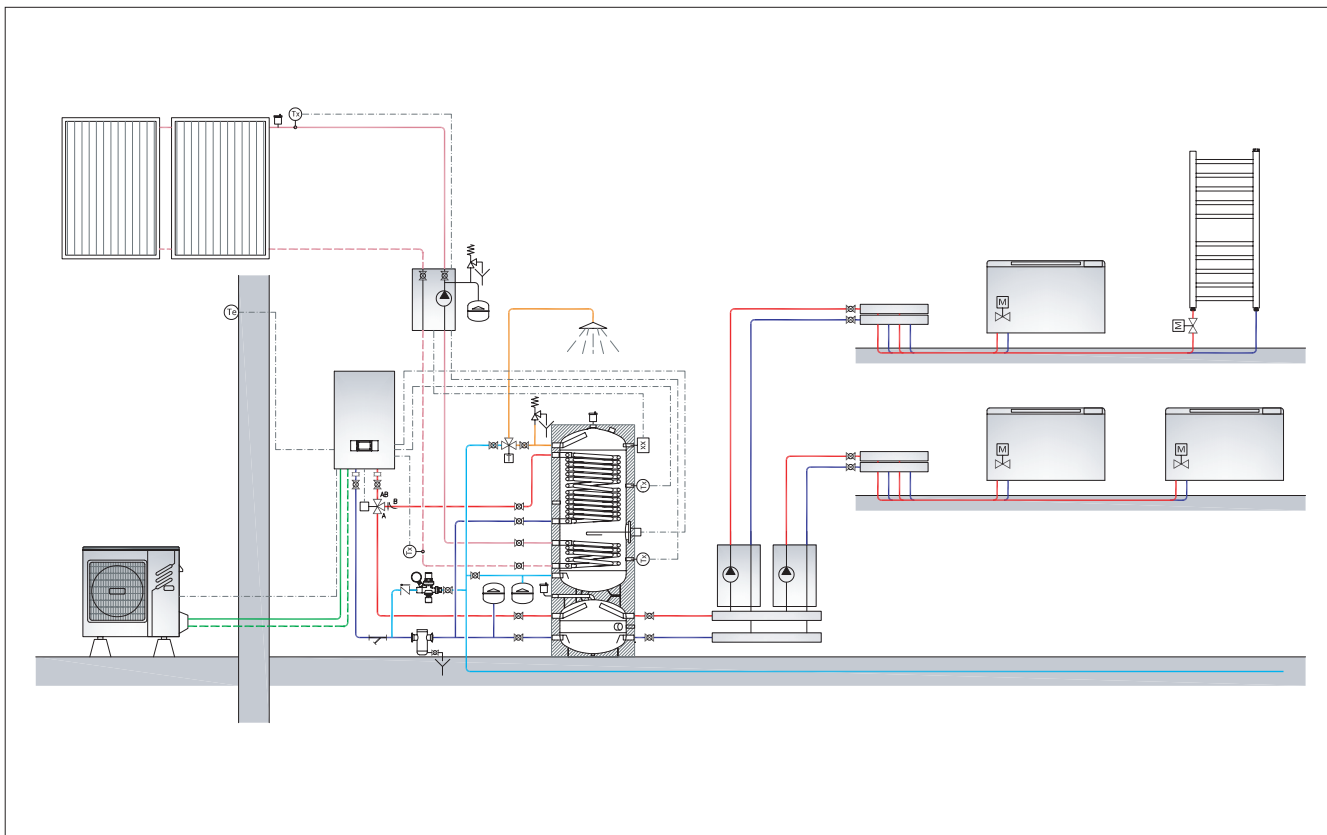
Aquadue® technology heat recovery

In summer operation in cooling, the refrigeration cycle dedicated to the production of DHW removes heat from the comfort circuit, increasing the overall efficiency of the system.

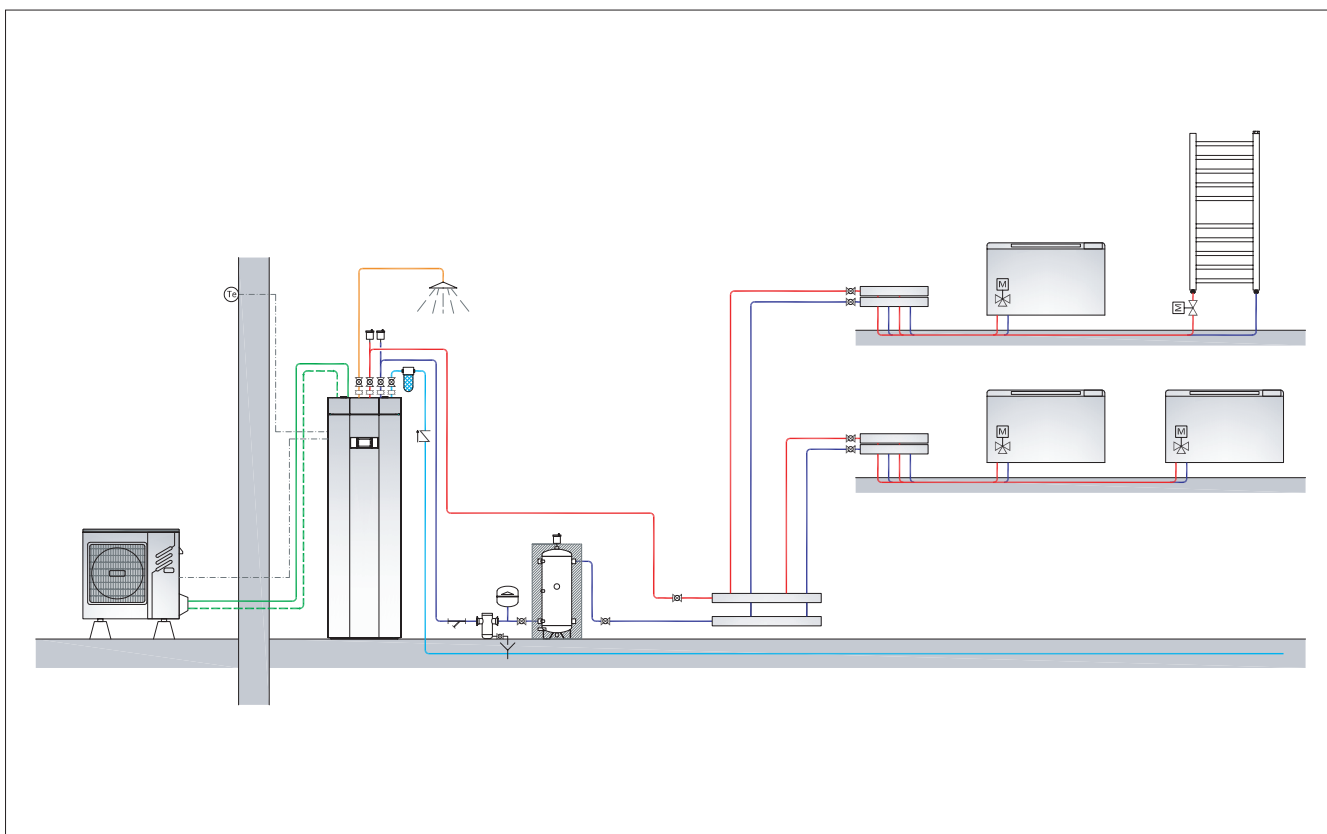
SYSTEM DIAGRAMS

SHERPA S2 - SHERPA TOWER S2

SHERPA S2 heat pump (heating and air conditioning; DHW production) Bi2 SLR fan coil radiator terminals; domestic water integration with solar thermal and integrated inertial storage (used as hydraulic separator) for the air conditioning system.



SHERPA TOWER S2 heat pump (heating and air conditioning; DHW production) Bi2 SLR fan coil radiator terminals with 3-way valves and inertial storage in series on the return pipe of the air conditioning system.



NEW

SHERPA COLD

Split heat pump for cold climates



HIGH PERFORMANCE ALSO AT LOW TEMPERATURE

The defrosting cycles of the machine are optimised to guarantee high performance even with low external temperatures.



WIDE OPERATING LIMITS

Sherpa Cold can work up to outdoor air temperatures of -32°C and + 48°C



INVERTER SCROLL COMPRESSORS WITH STEAM INJECTION

Technology that improves performance in low temperature applications.



TOUCH SCREEN REMOTE CONTROL PANEL

Touch screen remote control panel as standard, with connection cable of up to 30 m.

FEATURES

Inverter air-water heat pump

Energy efficiency class in average climate heating: up to A+++ (35°C) and A++ (55°C)

Energy efficiency class in cold climate heating: up to A+ (35°C) and A+ (55°C)

Powers available: 2 Powers with single-phase R410A refrigerant: 10-15 kW and 4 Powers with three-phase R410A refrigerant: 10-12-15-18 kW

Supplies DHW with temperatures up to 55°C. C.

Compressor Scroll Inverter with steam injection

Expansion valve: electronic

Refrigerant circuit with economiser

Remote control colour touch-screen panel

Maintaining of the power of the machine even with very cold outside temperatures

Optimisation of the machine defrosting cycles and excellent performance even with harsh external temperatures

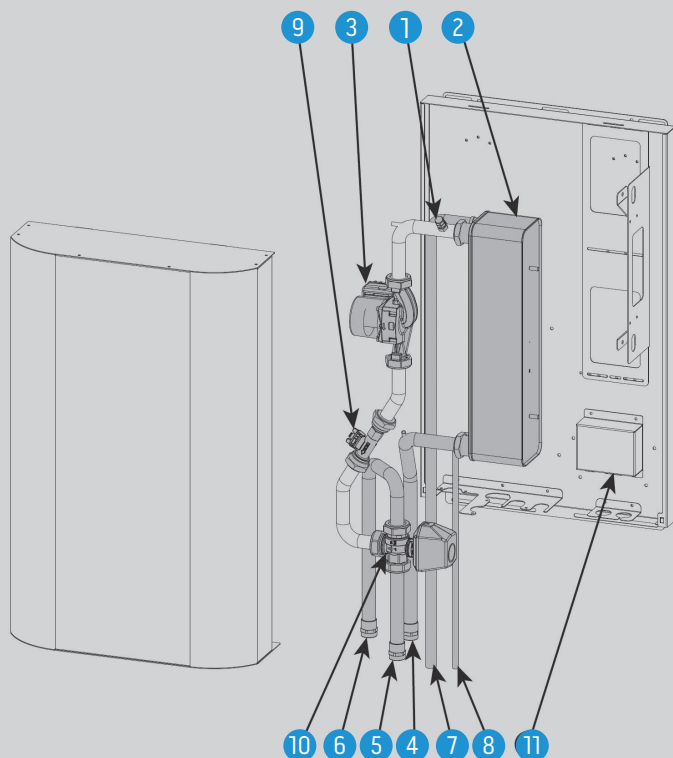
Operating limits: -32°C +48°C

Refrigerant gas R410A*

External air probe integrated in the machine

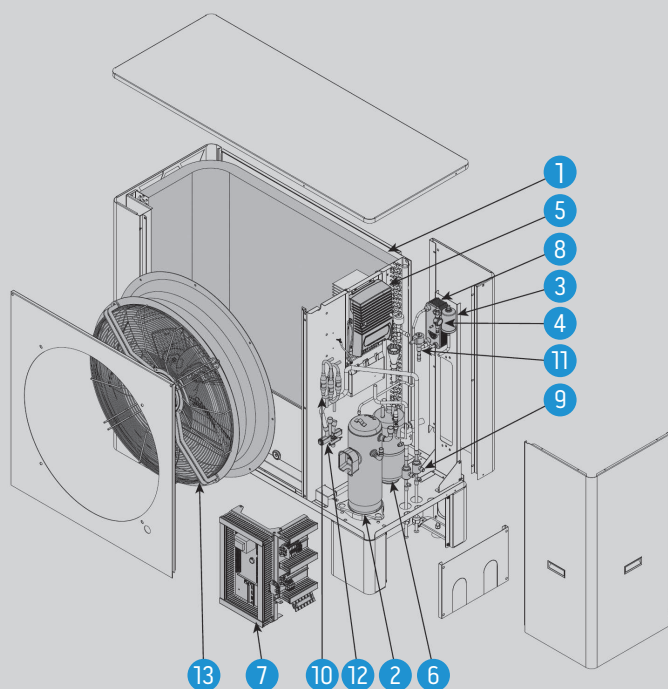
* Equipment not hermetically sealed containing fluorinated gases with an equivalent GWP of 2088

INDOOR UNIT



1. Vent valve
2. Plate heat exchanger
3. Circulation pump
4. Water inlet pipe
5. Water outlet pipe (system)
6. Water outlet pipe (DHW)
7. Gas passage pipe
8. Liquid passage pipe
9. Flow meter
10. 3-way valve (optional)
11. Electrical panel

OUTDOOR UNIT



1. Evaporator
2. Compressor
3. Filter
4. Liquid indicator
5. Inverter
6. Liquid receiver
7. Electrical panel
8. Economiser
9. Ball valve
10. Check valve
11. Electronic expansion valve
12. 4-way valve
13. Fan

PRELIMINARY TECHNICAL DATA

					Sherpa Cold - Single-phase R410A					
					10			15		
Size					02108			02109		
INDOOR UNIT CODE					02100			02103		
OUTDOOR UNIT CODE										
Compressor frequency					Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
Precise performance	Heating output	a7/6 - w30/35	(a)	kW	3.90	9.60	-	5.51	14.40	-
	COP	a7/6 - w30/35	(a)	W/W	-	4.27	-	-	4.68	-
	Heating output	a2/1 - w30/35	(b)	kW	4.80	9.60	-	6.82	14.40	-
	COP	a2/1 - w30/35	(b)	W/W	-	3.83	-	-	3.85	-
	Heating output	a7/8 - w30/35	(c)	kW	4.17	9.60	-	6.26	14.40	-
	COP	a7/8 - w30/35	(c)	W/W	-	2.98	-	-	2.98	-
	Heating output	a-15/-16 - w30/35	(d)	kW	3.72	8.93	-	5.52	13.25	-
	COP	a-15/-16 - w30/35	(d)	W/W	-	2.26	-	-	2.57	-
	Heating output	a-20/-19 - w30/35	(r)	kW	3.28	7.87	-	4.88	11.71	-
	COP	a-20/-19 - w30/35	(r)	W/W	-	2.09	-	-	2.43	-
	Heating output (fancoils)	a7/6 - w40/45	(f)	kW	3.90	9.60	-	5.51	14.40	-
	COP (fancoils)	a7/6 - w40/45	(f)	W/W	-	3.33	-	-	3.53	-
	Heating output (fancoils)	a2/1 - w40/45	(g)	kW	4.80	9.60	-	6.82	14.40	-
	COP (fancoils)	a2/1 - w40/45	(g)	W/W	-	2.82	-	-	3.08	-
	Heating output (fancoils)	a7/8 - w40/45	(h)	kW	4.17	9.60	-	6.26	14.40	-
	COP (fancoils)	a7/8 - w40/45	(h)	W/W	-	2.33	-	-	2.45	-
	Heating output (fancoils)	a-15/-16 - w40/45	(i)	kW	3.68	8.83	-	5.36	12.86	-
	COP (fancoils)	a-15/-16 - w40/45	(i)	W/W	-	1.90	-	-	2.03	-
	Heating output (fancoils)	a-20/-19 - w40/45	(s)	W/W	3.17	7.61	-	4.80	11.52	-
	COP (fancoils)	a-20/-19 - w40/45	(s)	W/W	-	1.76	-	-	1.92	-
	Cooling power	a35 - w23/18	(l)	kW	3.53	8.40	-	4.08	11.31	-
	EER	a35 - w23/18	(l)	W/W	-	4.26	-	-	4.45	-
	Cooling output (fancoils)	a35 - w12/7	(m)	kW	2.71	6.44	-	3.13	8.67	-
	EER (fancoils)	a35 - w12/7	(m)	W/W	-	3.31	-	-	3.45	-
Efficiencies	Energy efficiency class in water heating 35°C	Warmer Climate			A+++			A+++		
	SCOP	Warmer Climate			4.62			4.79		
	η_s (Seasonal efficiency for space heating)	Warmer Climate		η_s %	181.8			188.6		
	Energy efficiency class in water heating 35°C	Average Climate			A+++			A+++		
	SCOP	Average Climate			4.50			4.60		
	η_s (Seasonal efficiency for space heating)	Average Climate		η_s %	177.3			181.1		
	Energy efficiency class in water heating 35°C	Cold Climate			A+			A+		
	SCOP	Cold Climate			3.60			3.71		
	η_s (Seasonal efficiency for space heating)	Cold Climate		η_s %	141.1			145.3		
	Energy efficiency class in water heating 55°C	Warmer Climate			A++			A++		
	SCOP	Warmer Climate			3.27			3.45		
	η_s (Seasonal efficiency for space heating)	Warmer Climate		η_s %	127.8			135.1		
	Energy efficiency class in water heating 55°C	Average Climate			A++			A++		
	SCOP	Average Climate			3.23			3.37		
	η_s (Seasonal efficiency for space heating)	Average Climate		η_s %	126.3			131.9		
	Energy efficiency class in water heating 55°C	Cold Climate			A+			A+		
SCOP	Cold Climate			2.68			2.76			
η_s (Seasonal efficiency for space heating)	Cold Climate		η_s %	104.2			107.3			
Noise level	Indoor unit sound power			dB (A)	36			36		
	Indoor unit sound pressure		(n)	dB (A)	30			30		
	Outdoor unit sound power (nominal)			dB (A)	53.4			52.9		
	Outdoor unit sound pressure (nominal)		(o)	dB (A)	33.5			33		
	System circulator absorption			W	75			75		
	Internal unit electrical power supply			V/ph/Hz	230/1/50			230/1/50		
Electrical data	Maximum absorbed current of the internal unit			A	0.33			0.33		
	Maximum power consumption of the internal unit			kW	0.75			0.75		
	Additional electric heating elements			kW	-			-		
	External unit electrical power supply			V/ph/Hz	230/1/50			230/1/50		
	Outdoor unit maximum absorbed current			A	24.6			38.7		
	Outdoor unit maximum absorbed power			kW	5.1			8.0		
Cooling circuit	Compressor type				Scroll with injection			Scroll with injection		
	Refrigerant inlet connection diameter			"	See installation manual			See installation manual		
	Coolant gas		(p)		R410A			R410A		
	Global warming potential			GWP	2088			2088		
	Coolant gas load			kg	5			6.5		
Hydraulic data	Refrigerant piping length limit without minimum surface verification		(q)		-			-		
	Hydraulic connections			"	T			T		
	Capacity of expansion vessel			l	-			-		

(a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C
 (b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C
 (c) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 30°C/35°C
 (d) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 30°C/35°C
 (f) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 40°C/45°C
 (g) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C
 (h) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 40°C/45°C
 (i) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 40°C/45°C
 (l) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C

(m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
 (n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
 (o) Sound pressure values measured at a distance of 4 m in free field
 (p) Non-airtightly sealed equipment containing fluorinated GAS
 (q) maximum length of the refrigeration pipes beyond which checks are necessary on the minimum surface of the installation rooms, check the technical manual
 (r) Heating mode, external air temperature -20°C b.s./-19°C b.u., inlet/outlet water temperature 30°C/35°C
 (s) Heating mode, external air temperature -20°C b.s./-19°C b.u., inlet/outlet water temperature 40°C/45°C

PRELIMINARY TECHNICAL DATA

Sherpa Cold - Three-phase R410A

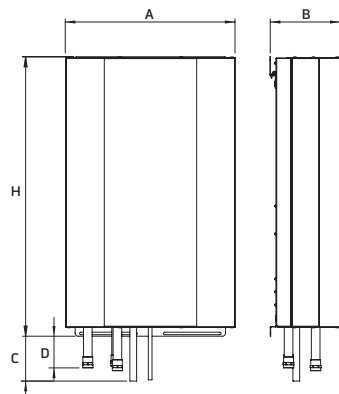
Size		Sherpa Cold - Three-phase R410A															
		10 T			12 T			15 T			18 T						
INDOOR UNIT CODE		02108			02108			02109			02110						
OUTDOOR UNIT CODE		02101			02102			02104			02105						
Compressor frequency		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum				
Precise performance	Heating output	a7/6 - w30/35	(a)		kW	3.90	9.60	-	4.40	11.52	-	5.51	14.40	-	6.24	17.28	-
	COP	a7/6 - w30/35	(a)		W/W	-	4.27	-	-	4.24	-	-	4.68	-	-	4.34	-
	Heating output	a2/1 - w30/35	(b)		kW	4.80	9.60	-	5.76	11.52	-	6.82	14.40	-	7.78	17.28	-
	COP	a2/1 - w30/35	(b)		W/W	-	3.83	-	-	4.04	-	-	3.85	-	-	3.37	-
	Heating output	a7/8 - w30/35	(c)		kW	4.17	9.60	-	5.76	11.52	-	6.26	14.40	-	7.20	17.28	-
	COP	a7/8 - w30/35	(c)		W/W	-	2.98	-	-	3.22	-	-	2.98	-	-	2.61	-
	Heating output	a15/16 - w30/35	(d)		kW	3.72	8.93	-	5.24	11.52	-	5.52	13.25	-	6.40	15.36	-
	COP	a15/16 - w30/35	(d)		W/W	-	2.26	-	-	2.30	-	-	2.57	-	-	2.23	-
	Heating output	a20/19 - w30/35	(e)		kW	3.28	7.87	-	4.80	11.52	-	4.88	11.71	-	5.60	13.44	-
	COP	a20/19 - w30/35	(e)		W/W	-	2.09	-	-	1.97	-	-	2.43	-	-	2.03	-
	Heating output (fancoils)	a7/6 - w40/45	(f)		kW	3.90	9.60	-	4.44	11.62	-	5.51	14.40	-	6.24	17.28	-
	COP (fancoils)	a7/6 - w40/45	(f)		W/W	-	3.33	-	-	3.47	-	-	3.53	-	-	3.05	-
	Heating output (fancoils)	a2/1 - w40/45	(g)		kW	4.80	9.60	-	5.81	11.62	-	6.82	14.40	-	7.78	17.28	-
	COP (fancoils)	a2/1 - w40/45	(g)		W/W	-	2.82	-	-	3.08	-	-	3.08	-	-	2.80	-
	Heating output (fancoils)	a7/8 - w40/45	(h)		kW	4.17	9.60	-	5.76	11.52	-	6.26	14.40	-	7.20	17.28	-
	COP (fancoils)	a7/8 - w40/45	(h)		W/W	-	2.33	-	-	2.55	-	-	2.45	-	-	2.20	-
	Heating output (fancoils)	a15/16 - w40/45	(i)		kW	3.68	8.83	-	5.02	11.04	-	5.36	12.86	-	5.80	13.92	-
	COP (fancoils)	a15/16 - w40/45	(i)		W/W	-	1.90	-	-	1.91	-	-	2.03	-	-	1.90	-
	Heating output (fancoils)	a20/19 - w40/45	(j)		W/W	3.17	7.61	-	4.44	10.66	-	4.80	11.52	-	5.20	12.48	-
	COP (fancoils)	a20/19 - w40/45	(j)		W/W	-	1.76	-	-	1.68	-	-	1.92	-	-	1.79	-
	Cooling power	a35 - w23/18	(l)		kW	3.53	8.40	-	3.74	10.36	-	4.08	11.31	-	6.62	15.72	-
	EER	a35 - w23/18	(l)		W/W	-	4.26	-	-	4.08	-	-	4.45	-	-	4.11	-
	Cooling output (fancoils)	a35 - w12/7	(m)		kW	2.71	6.44	-	2.87	7.94	-	3.13	8.67	-	5.08	12.34	-
	EER (fancoils)	a35 - w12/7	(m)		W/W	-	3.31	-	-	3.15	-	-	3.45	-	-	2.99	-
	Efficiencies	Energy efficiency class in water heating 35°C	Warmer Climate				A+++			A+++			A+++			A+++	
		SCOP	Warmer Climate				4.51			4.69			4.79			4.66	
		η_s (Seasonal efficiency for space heating)	Warmer Climate		η_s %		177.6			184.8			188.6			183.7	
		Energy efficiency class in water heating 35°C	Average Climate				A+++			A+++			A+++			A+++	
SCOP		Average Climate				4.50			4.58			4.60			4.45		
η_s (Seasonal efficiency for space heating)		Average Climate		η_s %		177.3			180.3			181.1			175		
Energy efficiency class in water heating 35°C		Cold Climate				A+			A+			A+			A+		
SCOP		Cold Climate				3.60			3.65			3.71			3.44		
η_s (Seasonal efficiency for space heating)		Cold Climate		η_s %		141.1			143			145.3			134.6		
Energy efficiency class in water heating 55°C		Warmer Climate				A++			A++			A++			A+		
SCOP		Warmer Climate				3.27			3.43			3.45			3.19		
η_s (Seasonal efficiency for space heating)		Warmer Climate		η_s %		127.8			134.2			135.1			124.7		
Energy efficiency class in water heating 55°C		Average Climate				A++			A++			A++			A+		
SCOP		Average Climate				3.23			3.33			3.37			3.13		
η_s (Seasonal efficiency for space heating)		Average Climate		η_s %		126.3			130.1			131.9			122.2		
Energy efficiency class in water heating 55°C		Cold Climate				A+			A+			A+			A+		
SCOP	Cold Climate				2.68			2.60			2.76			2.51			
η_s (Seasonal efficiency for space heating)	Cold Climate		η_s %		104.2			101.2			107.3			97.4			
Noise level	Indoor unit sound power					36			36			36			37		
	Indoor unit sound pressure		(n)			30			30			30			31		
	Outdoor unit sound power (nominal)					53.4			53.4			52.9			54		
	Outdoor unit sound pressure (nominal)		(o)			33.5			33.5			33			34		
	System circulator absorption				W	75			75			75			85		
Electrical data	Internal unit electrical power supply			V/ph/Hz		230/1/50			230/1/50			230/1/50			230/1/50		
	Maximum absorbed current of the internal unit			A		0.33			0.33			0.33			0.33		
	Maximum power consumption of the internal unit			kW		0.75			0.75			0.75			0.75		
	Additional electric heating elements			kW		-			-			-			-		
	External unit electrical power supply			V/ph/Hz		400/3/50			400/3/50			400/3/50			400/3/50		
	Outdoor unit maximum absorbed current			A		8.2			11.4			12.8			13.6		
	Outdoor unit maximum absorbed power			kW		5.1			7.1			8.0			8.5		
Cooling circuit	Compressor type					Scroll with injection			Scroll with injection			Scroll with injection			Scroll with injection		
	Refrigerant inlet connection diameter			"		See installation manual			See installation manual			See installation manual			See installation manual		
	Coolant gas		(p)			R410A			R410A			R410A			R410A		
	Global warming potential			GWP		2088			2088			2088			2088		
	Coolant gas load			kg		5			5			6.5			6.5		
Hydraulic data	Refrigerant piping length limit without minimum surface verification		(q)			-			-			-			-		
	Hydraulic connections			"		T			T			T			T		
	Capacity of expansion vessel			l		-			-			-			-		

(a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C
 (b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C
 (c) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 30°C/35°C
 (d) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 30°C/35°C
 (e) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 40°C/45°C
 (f) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C
 (g) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 40°C/45°C
 (h) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 40°C/45°C
 (i) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 40°C/45°C
 (l) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C

(m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
 (n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
 (o) Sound pressure values measured at a distance of 4 m in free field
 (p) Non-airtightly sealed equipment containing fluorinated GAS
 (q) maximum length of the refrigeration pipes beyond which checks are necessary on the minimum surface of the installation rooms, check the technical manual
 (r) Heating mode, external air temperature -20°C b.s./-19°C b.u., inlet/outlet water temperature 30°C/35°C
 (s) Heating mode, external air temperature -20°C b.s./-19°C b.u., inlet/outlet water temperature 40°C/45°C

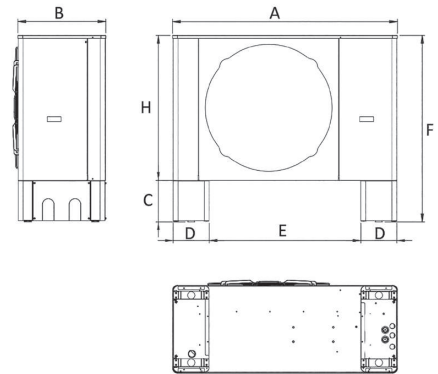
INDOOR UNIT

		10	15	10 T	12 T	15 T	18 T
A	mm	550	550	550	550	500	550
B	mm	228	228	228	228	228	228
C	mm	147	147	147	147	147	147
D	mm	100	100	100	100	100	100
H	mm	907	907	907	907	907	907
Net weight	kg	50	50	50	50	50	50


















OUTDOOR UNIT

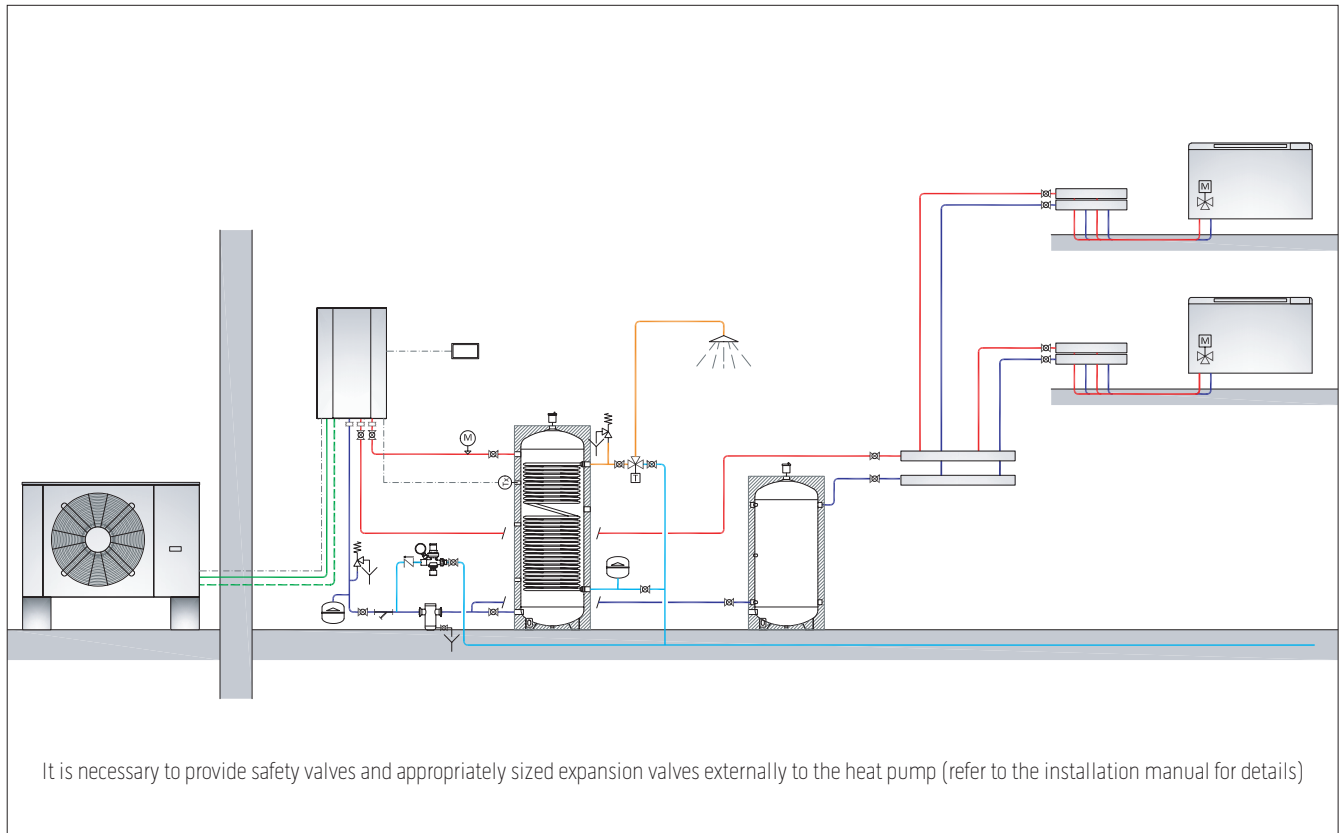
		10	15	10 T	12 T	15 T	18 T
A	mm	MONOFAN			MONOFAN		
		1406	1591	1406	1406	1591	1591
B	mm	550	546	550	550	546	546
C	mm	259	259	259	259	259	259
D	mm	225	225	225	225	225	225
E	mm	949	1134	949	949	1134	1134
F	mm	1167	1271	1167	1167	1271	1271
H	mm	908	1012	908	908	1012	1012
Net weight	kg	160	200	160	160	200	200



ACCESSORIES

	CODE	DESCRIPTION	NOTE
	B0900	100 m cable for Modbus touch panel connection	Necessary Accessory
	B0901	10m cable for UI-EU connection (set of 4 cables with pre-wired connectors)	Necessary accessory, with a choice of three options
	B0902	20m cable for UI-EU connection (set of 4 cables with pre-wired connectors)	
	B0903	30m cable for UI-EU connection (set of 4 cables with pre-wired connectors)	
	B0904	Pair of h250 mm metal feet with small anti-vibration mounts (not compatible with cod. B0905).	
	B0908	Rear metal mesh for battery protection (sizes 10, 10T and 12T)	
	B0909	Rear metal mesh for battery protection (sizes 15, 15T and 18T)	
	B0910	Integration kit - Relay for activation of storage tank or other electric heating element. Necessary in combination with the electric heating element of the storage tank in order to perform anti-legionella thermal disinfection treatments in case of domestic hot water accumulation	Optional factory fitted accessory
	B0911	DHW management kit - K1 relay, 3W 1"1/4" valve, Probe B3	
	B0912	Condensate drain pipe electric heating element	
	B0913	Fan grille to reduce noise 800mm diameter	
	B0914	Acoustic insulation kit to reduce noise by 2dB	
	B0915	Brass Y filter with 1" 1/4 connections and 2" body	
	B0905	Pair of 200 mm high rubber feet with anti-vibration function (not compatible with cod. B0904)	
	B0906	Aesthetic fan cover front grille (sizes 10, 10T and 12T)	Necessary accessory supplied separately
	B0907	Aesthetic fan cover front grille (sizes 15, 15T and 18T)	
	B0899	Metal frame for touch panel recessed installation	

SHERPA COLD heat pump (heating and air conditioning; DHW production) Bi2 SLR fan coil radiator terminals with 3-way valves and inertial storage in series on the return pipe of the air conditioning system. Storage of technical water with instant DHW production.



STORAGE TANKS AND ACCUMULATIONS COMPATIBILITY

		Sherpa Cold 10	Sherpa Cold 10T	Sherpa Cold 12T	Sherpa Cold 15	Sherpa Cold 15T	Sherpa Cold 18T
01804	Standard cylinder 200 L	X	X				
01805	Standard cylinder 200 L	X	X	X	X	X	X
01806	Standard cylinder 200 L	X	X	X	X	X	
01807	Hybrid HY cylinder 300 L						
01808	Hybrid HYS solar cylinder 300 L						
01199	Thermal accumulation 50 L						
01200	Thermal accumulation 100 L	X*	X*				

* the correctness of this combination must be verified with particular attention by the technician assigned to designing the system based on the water content and the characteristics of the heat distribution and emission network. For installation and sizing of the system inertial storage, always refer to the instructions provided in the installation manual.

SHERPA MONOBLOC ST E



Monoblock heat pump



Compatible with:



COMPACT TECHNOLOGY

Compact unit and reduced dimensions. For all power sizes the machine is equipped with a single fan unit.



DOMESTIC HOT WATER AT 60°C

Domestic hot water is available with temperatures up to 60°C.



LOW GWP GAS

All power sizes use the R32 refrigerant, characterised by greater efficiency and a greenhouse effect reduced by almost 70% (compared to R410A).



TOUCH SCREEN REMOTE CONTROL PANEL

Standard touch screen remote control panel, with 8 m connection cable. Integrated Wi-Fi module for machine management via smartphone and tablet, with a dedicated app (Ewpe).

FEATURES

Inverter air-water heat pump

Energy efficiency class in average climate heating: A+++ (35°C) and A++ (55°C)

Powers available: 4 Powers with single-phase R32 refrigerant: 6-8-12-16 kW and 2 Powers with three-phase R32 refrigerant: 12-16 kW

DHW production: up to 60°C

Compressor: airtight twin rotary DC Inverter with steam injection, complete with thermal protection

Expansion valve: electronic

Refrigerant circuit with economiser.

Water side exchange battery: with stainless steel plates, complete with antifreeze heater.

Air side heat exchange battery: with finned battery with copper pipes and aluminium-manganese fins with Golden Fin anti-corrosion treatment, in epoxy resin and hydrophilic treatment.

Helical fan with brushless DC motors equipped with internal thermal protection, safety protection grilles and proportional electronic device for continuous adjustment of the rotation speed of the fans.

Remote ambient air temperature probe, for managing of the unit on the ambient set-point.

Structure: in galvanised steel sheet, complete with condensate tray and unit base antifreeze resistance.

Refrigerant gas: R32*

Operating limits: -25°C +48°C.

External air probe integrated in the machine.

* Equipment hermetically sealed containing fluorinated gases with an equivalent GWP of 675 (R32)



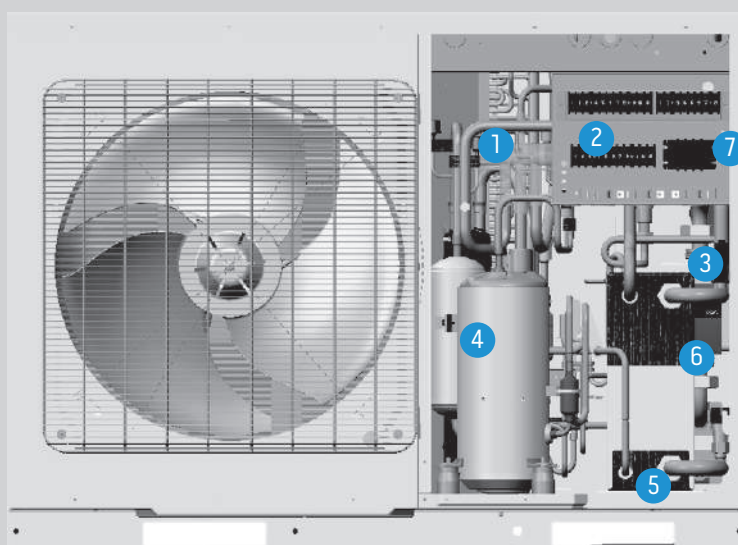
FUNCTIONS

- Management of 3-way diverter valve for the production of domestic hot water.
- Management of 2-way on/off valve for interception of a part of the system.
- Management of auxiliary or supplementary heat source.
- Rapid water heating function
- Anti-legionella cycle function, programmable with activation timer.
- Operation in quiet mode programmable with timer.
- Holiday mode and antifreeze function.
- Weather Dependent Mode function (Climate Control)
- Management by room thermostat, as an alternative to the panel touch screen.

Touch screen remote control panel (standard)

REMOTE CONTROL VIA APP Ewpe

The heat pump can be controlled remotely with Tablet and Smartphone thanks to the standard Wi-Fi module (to be interfaced with a wireless router connected to the Internet). The "Ewpe" App can be downloaded free of charge from the Google and Apple Stores, which allows control of the machine via the Cloud.



1. Reversible gas circuit
2. Electrical panel
3. Flow switch
4. DC inverter rotary compressor
5. Plate heat exchanger
6. Variable range circulator
7. Expansion vessel (2 or 3 litres)

Size		SHERPA MONOBLOC S1 E - Single-phase R32																
		6			8			12			16							
INDOOR UNIT CODE		-			-			-			-							
OUTDOOR UNIT CODE		02021			02022			02023			02025							
Compressor frequency		Minimum Nominal Maximum			Minimum Nominal Maximum			Minimum Nominal Maximum			Minimum Nominal Maximum							
Precise performance	Heating output	a7/6 - w30/35	(a)	(E)	kW	2.40	6.00	-	2.40	7.50	-	4.80	12.00	-	6.20	15.50	-	
	COP	a7/6 - w30/35	(a)	(E)	W/W	-	5.00	-	-	4.60	-	-	4.55	-	-	4.31	-	
	Heating output	a2/1 - w30/35	(b)		kW	2.04	5.50	-	2.55	6.38	-	4.08	11.90	-	5.27	13.00	-	
	COP	a2/1 - w30/35	(b)		W/W	-	4.10	-	-	3.93	-	-	4.14	-	-	4.05	-	
	Heating output	a-7/-8 - w30/35	(c)		kW	1.68	4.92	-	2.10	5.39	-	3.36	9.60	-	4.34	10.65	-	
	COP	a-7/-8 - w30/35	(c)		W/W	-	3.16	-	-	3.00	-	-	2.80	-	-	3.08	-	
	Heating output	a-15/-16 - w30/35	(d)		kW	1.34	3.90	-	1.68	4.50	-	2.69	8.76	-	3.47	10.54	-	
	COP	a-15/-16 - w30/35	(d)		W/W	-	2.39	-	-	2.29	-	-	1.79	-	-	1.62	-	
	Heating output (fancoils)	a7/6 - w40/45	(f)	(E)	kW	2.40	6.00	-	3.00	7.50	-	4.80	12.00	-	6.20	15.50	-	
	COP (fancoils)	a7/6 - w40/45	(f)	(E)	W/W	-	3.80	-	-	3.75	-	-	3.45	-	-	3.30	-	
	Heating output (fancoils)	a2/1 - w40/45	(g)		kW	2.04	5.50	-	2.55	6.30	-	4.08	11.50	-	5.27	13.00	-	
	COP (fancoils)	a2/1 - w40/45	(g)		W/W	-	3.27	-	-	3.04	-	-	3.20	-	-	3.08	-	
	Heating output (fancoils)	a-7/-8 - w40/45	(h)		kW	1.68	4.02	-	2.10	4.90	-	3.36	8.60	-	4.34	10.78	-	
	COP (fancoils)	a-7/-8 - w40/45	(h)		W/W	-	2.04	-	-	2.02	-	-	2.60	-	-	2.24	-	
	Heating output (fancoils)	a-15/-16 - w40/45	(i)		kW	1.34	2.82	-	1.68	3.60	-	2.69	8.04	-	3.47	9.92	-	
	COP (fancoils)	a-15/-16 - w40/45	(i)		W/W	-	1.36	-	-	1.23	-	-	1.76	-	-	1.58	-	
	Cooling power	a35 - w23/18	(l)	(E)	kW	2.32	5.80	-	2.72	6.80	-	4.40	11.00	-	5.80	14.50	-	
	EER	a35 - w23/18	(l)	(E)	W/W	-	4.30	-	-	4.30	-	-	4.30	-	-	3.77	-	
	Cooling output (fancoils)	a35 - w12/7	(m)	(E)	kW	1.60	4.00	-	2.00	5.00	-	3.62	9.50	-	5.20	13.00	-	
	EER (fancoils)	a35 - w12/7	(m)	(E)	W/W	-	3.10	-	-	3.10	-	-	3.05	-	-	2.65	-	
Efficiencies	Energy efficiency class in water heating 35°C	Warmer Climate				A+++			A+++			A+++			A+++			
	SCOP	Warmer Climate				5.85			5.93			5.68			5.68			
	ηs (Seasonal efficiency for space heating)	Warmer Climate		ηs %		231			234			224			224			
	Energy efficiency class in water heating 35°C	Average Climate				A+++			A+++			A+++			A++			
	SCOP	Average Climate				4.7			4.65			4.45			4.18			
	ηs (Seasonal efficiency for space heating)	Average Climate		ηs %		185			183			175			164			
	Energy efficiency class in water heating 35°C	Cold Climate				A+			A+			A+			A+			
	SCOP	Cold Climate				3.68			3.69			3.6			3.43			
	ηs (Seasonal efficiency for space heating)	Cold Climate		ηs %		144			144			141			134			
	Energy efficiency class in water heating 55°C	Warmer Climate				A+++			A+++			A+++			A+++			
	SCOP	Warmer Climate				3.98			3.98			3.8			3.8			
	ηs (Seasonal efficiency for space heating)	Warmer Climate		ηs %		156			156			149			149			
	Energy efficiency class in water heating 55°C	Average Climate				A++			A++			A++			A++			
	SCOP	Average Climate		(E)		3.23			3.25			3.23			3.2			
	ηs (Seasonal efficiency for space heating)	Average Climate		(E)	ηs %		126			127			126			125		
	Energy efficiency class in water heating 55°C	Cold Climate				A+			A+			A+			A+			
SCOP	Cold Climate				2.7			2.78			2.75			2.5				
ηs (Seasonal efficiency for space heating)	Cold Climate		ηs %		105			108			107			97				
Noise level	Indoor unit sound power				dB (A)	-			-		-			-				
	Indoor unit sound pressure		(n)		dB (A)	-			-		-			-				
	Outdoor unit sound power (nominal)		(E)		dB (A)	64			65			69			72			
	Outdoor unit sound pressure (nominal)		(o)		dB (A)	56			56			57			57			
Electrical data	System circulator absorption				W	4-75			4-75			4-75			4-75			
	Internal unit electrical power supply				V/ph/Hz	-			-		-			-				
	Maximum absorbed current of the internal unit with active heating elements				A	-			-		-			-				
	Internal unit maximum power consumption with active heating elements				kW	-			-		-			-				
	Additional electric heating elements				kW	-			-		-			-				
	External unit electrical power supply				V/ph/Hz	220-240/1/50			220-240/1/50			220-240/1/50			220-240/1/50			
	Outdoor unit maximum absorbed current				A	10.4			10.4			25			29			
Outdoor unit maximum absorbed power				kW	2.3			2.3			5.75			6.67				
Cooling circuit	Compressor type					Inverter rotary			Inverter rotary			Inverter rotary			Inverter rotary			
	Refrigerant inlet connection diameter				"	-			-		-			-				
	Coolant gas		(p)			R32			R32			R32			R32			
	Global warming potential				GWP	675			675			675			675			
	Coolant gas load				kg	0.87			0.87			2.2			2.2			
Hydraulic data	Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018		(q)			-			-		-			-				
	Hydraulic connections				"	1			1			1			1			
	Capacity of expansion vessel				l	2			2			3			3			

(a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C
(b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C
(c) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 30°C/35°C
(d) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 30°C/35°C
(e) Eurovent certified data at nominal condition only
(f) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 40°C/45°C
(g) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C
(h) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 40°C/45°C

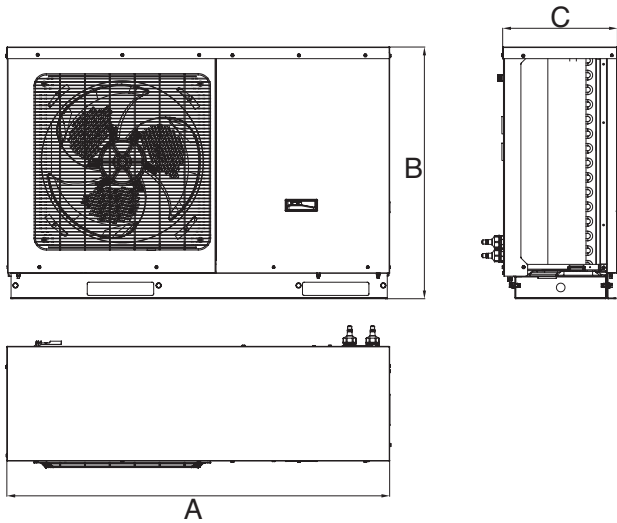
(i) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 40°C/45°C
(l) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C
(m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
(n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(o) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(p) Airtightness sealed equipment containing fluorinated GAS
(q) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual

Size					SHERPA MONOBLOC S1 E - Three-phase R32							
					12T			16T				
INDOOR UNIT CODE					-			-				
OUTDOOR UNIT CODE					02024			02026				
Compressor frequency					Minimum	Nominal	Maximum	Minimum	Nominal	Maximum		
Precise performance	Heating output	a7/6 - w30/35	(a)	(E)	kW	4.80	12.00	-	6.20	15.50	-	
	COP	a7/6 - w30/35	(a)	(E)	W/W	-	4.55	-	-	4.30	-	
	Heating output	a2/1 - w30/35	(b)		kW	4.08	11.90	-	5.27	13.00	-	
	COP	a2/1 - w30/35	(b)		W/W	-	4.14	-	-	4.05	-	
	Heating output	a-7/-8 - w30/35	(c)		kW	3.36	9.60	-	4.34	10.65	-	
	COP	a-7/-8 - w30/35	(c)		W/W	-	2.80	-	-	3.08	-	
	Heating output	a-15/-16 - w30/35	(d)		kW	2.69	8.76	-	3.47	10.54	-	
	COP	a-15/-16 - w30/35	(d)		W/W	-	1.79	-	-	1.62	-	
	Heating output (fancoils)	a7/6 - w40/45	(f)	(E)	kW	4.80	11.00	-	6.20	15.50	-	
	COP (fancoils)	a7/6 - w40/45	(f)	(E)	W/W	-	3.16	-	-	3.30	-	
	Heating output (fancoils)	a2/1 - w40/45	(g)		kW	4.08	11.50	-	5.27	13.00	-	
	COP (fancoils)	a2/1 - w40/45	(g)		W/W	-	3.20	-	-	3.08	-	
	Heating output (fancoils)	a-7/-8 - w40/45	(h)		kW	3.36	8.60	-	4.34	10.78	-	
	COP (fancoils)	a-7/-8 - w40/45	(h)		W/W	-	2.60	-	-	2.24	-	
	Heating output (fancoils)	a-15/-16 - w40/45	(i)		kW	2.69	8.04	-	3.47	9.92	-	
	COP (fancoils)	a-15/-16 - w40/45	(i)		W/W	-	1.70	-	-	1.58	-	
	Efficiencies	Cooling power	a35 - w23/18	(l)	(E)	kW	4.40	11.00	-	5.80	14.50	-
		EER	a35 - w23/18	(l)	(E)	W/W	-	4.30	-	-	3.80	-
Cooling output (fancoils)		a35 - w12/7	(m)	(E)	kW	3.62	9.50	-	5.20	13.00	-	
EER (fancoils)		a35 - w12/7	(m)	(E)	W/W	-	2.97	-	-	2.75	-	
Energy efficiency class in water heating 35°C		Warmer Climate							A+++		A+++	
SCOP		Warmer Climate							5.68		5.68	
ηs (Seasonal efficiency for space heating)		Warmer Climate			ηs %				224		224	
Energy efficiency class in water heating 35°C		Average Climate							A+++		A++	
SCOP		Average Climate							4.45		4.18	
ηs (Seasonal efficiency for space heating)		Average Climate			ηs %				175		164	
Energy efficiency class in water heating 35°C		Cold Climate							A+		A+	
SCOP		Cold Climate							3.6		3.43	
ηs (Seasonal efficiency for space heating)		Cold Climate			ηs %				141		134	
Energy efficiency class in water heating 55°C		Warmer Climate							A++		A++	
SCOP		Warmer Climate							3.8		3.8	
ηs (Seasonal efficiency for space heating)		Warmer Climate			ηs %				149		149	
Energy efficiency class in water heating 55°C		Average Climate							A++		A++	
SCOP		Average Climate		(E)					3.23		3.2	
ηs (Seasonal efficiency for space heating)	Average Climate		(E)	ηs %				126		125		
Energy efficiency class in water heating 55°C	Cold Climate							A+		A		
SCOP	Cold Climate							2.75		2.5		
ηs (Seasonal efficiency for space heating)	Cold Climate			ηs %				107		97		
Noise level	Indoor unit sound power				dB (A)				-		-	
	Indoor unit sound pressure		(n)		dB (A)				-		-	
	Outdoor unit sound power (nominal)			(E)	dB (A)				69		72	
	Outdoor unit sound pressure (nominal)		(o)		dB (A)				57		57	
Electrical data	System circulator absorption				W				4.75		4.75	
	Internal unit electrical power supply				V/ph/Hz				-		-	
	Maximum absorbed current of the internal unit with active heating elements				A				-		-	
	Internal unit maximum power consumption with active heating elements				kW				-		-	
	Additional electric heating elements				kW				-		-	
	External unit electrical power supply				V/ph/Hz				380-415/3/50		380-415/3/50	
	Outdoor unit maximum absorbed current				A				12		12	
	Outdoor unit maximum absorbed power				kW				7.8		7.8	
Cooling circuit	Compressor type								Inverter rotary		Inverter rotary	
	Refrigerant inlet connection diameter				"				-		-	
	Coolant gas			(p)					R32		R32	
	Global warming potential				GWP				675		675	
	Coolant gas load				kg				2.2		2.2	
Hydraulic data	Refrigerant piping length limit without minimum surface check according to IEC 60335-2-40:2018			(q)					-		-	
	Hydraulic connections				"				1		1	
	Capacity of expansion vessel				l				3		3	

(a) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 30°C/35°C
(b) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 30°C/35°C
(c) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 30°C/35°C
(d) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 30°C/35°C
(e) Eurovent certified data at nominal condition only
(f) Heating mode, external air temperature 7°C b.s./6°C b.u., inlet/outlet water temperature 40°C/45°C
(g) Heating mode, external air temperature 2°C b.s./1°C b.u., inlet/outlet water temperature 40°C/45°C
(h) Heating mode, external air temperature -7°C b.s./-8°C b.u., inlet/outlet water temperature 40°C/45°C

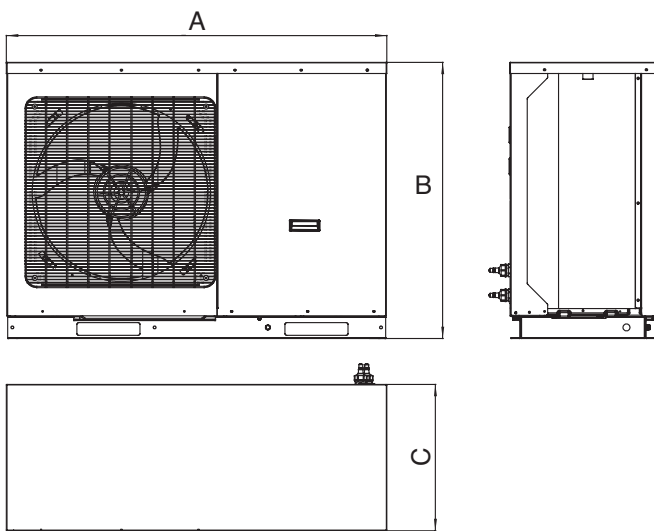
(i) Heating mode, external air temperature -15°C b.s./-16°C b.u., inlet/outlet water temperature 40°C/45°C
(l) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 23°C/18°C
(m) Cooling mode, external air temperature 35°C, inlet/outlet water temperature 12°C/7°C
(n) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(o) Sound pressure values measured at a distance of 1 m in a semi-anechoic chamber
(p) Airtightness sealed equipment containing fluorinated GAS
(q) maximum length of the refrigeration pipes beyond which checks on the minimum surface of the installation rooms are necessary, check the technical manual

OUTDOOR UNIT 6 - 8



		6	8	12	16	12T	16T
		MONOFAN				MONOFAN	
A	mm	1150	1150	1200	1200	1200	1200
B	mm	758	758	878	878	878	878
C	mm	345	345	460	460	460	460
Net weight	kg	96	96	151	151	151	151

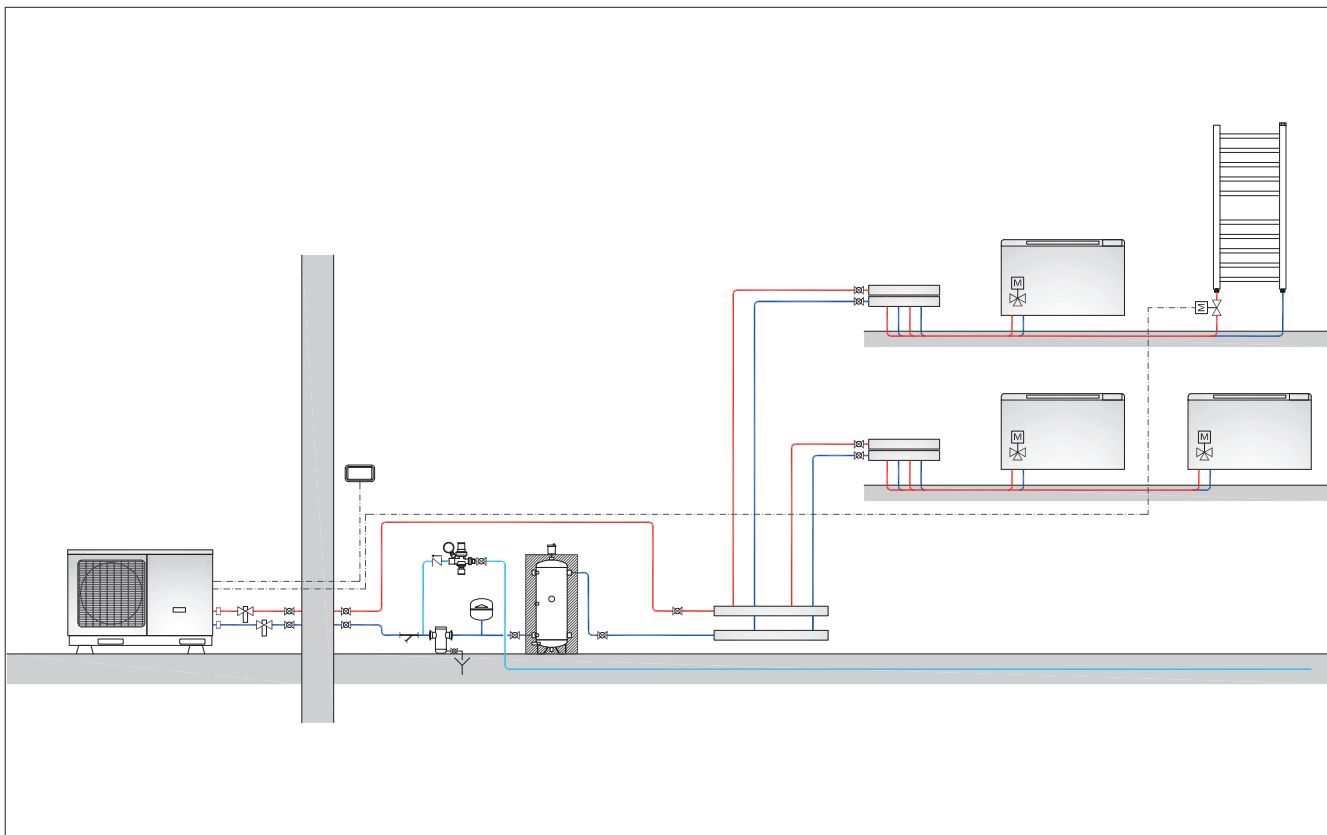
OUTDOOR UNIT 12 - 16 - 12T - 16T



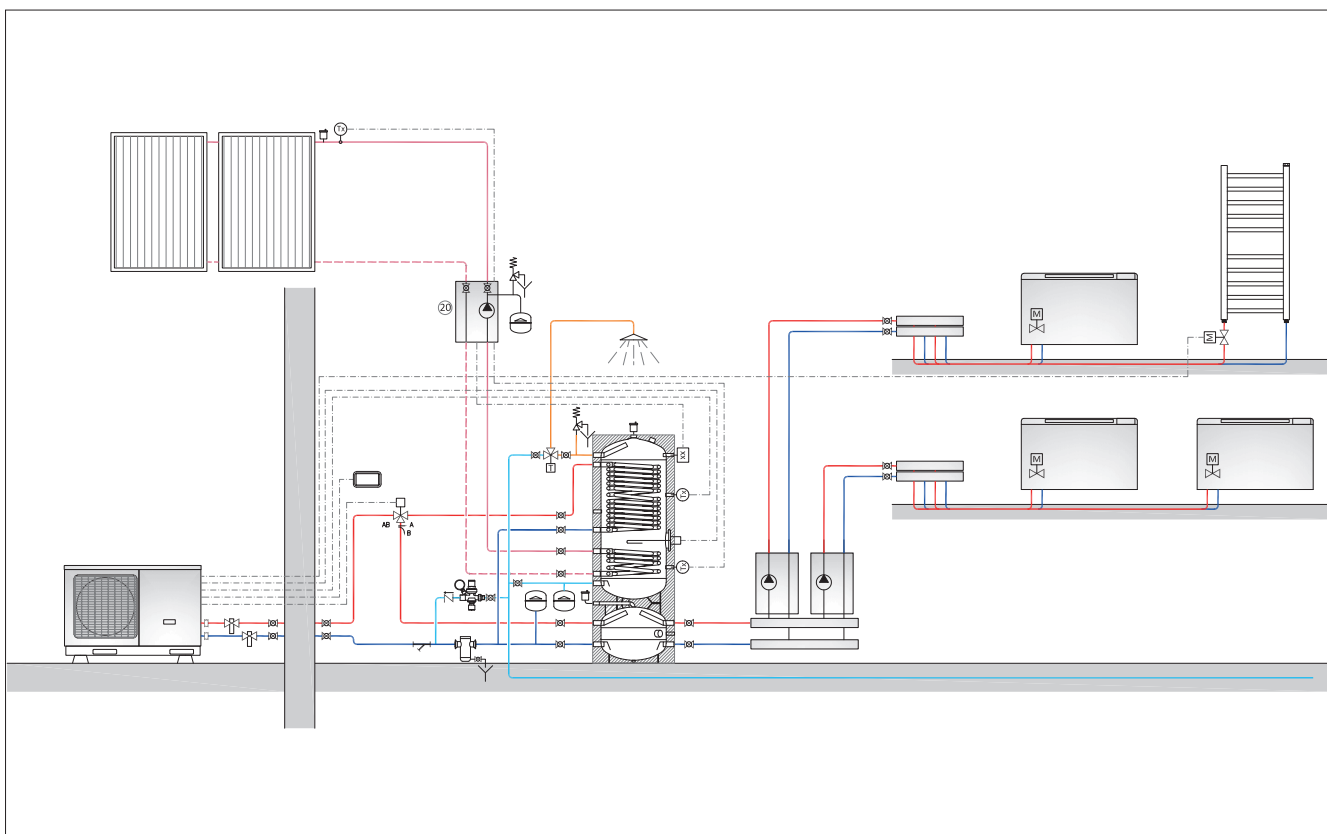
ACCESSORIES

CODE	DESCRIPTION
B0622 PHASE OUT	3-WAY VALVE KIT FOR DOMESTIC HOT WATER - Compact dimensions - Two-point control
B0916 NEW	3-WAY VALVE KIT FOR DOMESTIC HOT WATER - Compact dimensions - Two-point control
B0866	15M EXTENSION CORD REMOTE CONTROL PANEL KIT (ADDITIONAL) 15 metre extension cord for remote control panel connection with the external unit (8m as standard)

SHERPA MONOBLOC S1E heat pump (heating and air conditioning) Bi2 SLR fan coil radiator terminals with 3-way valves and inertial storage in series on the return pipe of the air conditioning system.






SHERPA MONOBLOC S1E heat pump (heating and air conditioning; DHW production) Bi2 SLR fan coil radiator terminals, domestic water integration with solar thermal and integrated inertial storage (used as hydraulic separator) for the air conditioning system.



Sherpa range accessories

SHERPA AQUADUE S2 - SHERPA S2 - SHERPA COLD - SHERPA MONOBLOC S1 E

Code	Description	DHW storage tank capacity		Puffer Capacity L	Total height mm	Diameter with insulation mm	Insulation mm	Energy class	Dispersion		Coil exchangers			Empty weight			
		Nom. L	Effective L						total W	temperature probe W/K	N°	Surface Heat pump m ²	Secondary surface m ²	kg			
	01804	Standard cylinder 200 L	200	190	-	1215	640	70	B	51	1,13	1 double coil	3	-	120	Sky	Blu RALS010
	01805	Standard cylinder 200 L	300	263	-	1615	640	70	B	63	1,40	1 double coil	4	-	160	Sky	Blu RALS010
	01806	Standard cylinder 200 L	300	260	-	1615	640	70	B	63	1,40	1 double coil + 1 solar unit	3,7	1,2	140	Sky	Blu RALS010
	01807	Hybrid HY cylinder 300 L	300	270	80	1925	690	70	B	73	1,62	1	2,8	-	150	Sky	Blu RALS010
	01808	Hybrid HYS solar cylinder 300 L	300	270	80	1925	690	70	B	73	1,62	1 + 1 solar unit	3,3	0,9	150	Sky	Blu RALS010
	01199	Thermal accumulation 50 L	-	-	57	935	400	50	B	34	0,76	-	-	-	25	Sky	Blu RALS010
	01200	Thermal accumulation 100 L	-	-	123	1095	500	50	B	50	1,11	-	-	-	35	Sky	Blu RALS010

B0618 Resistance for boiler 2 kW

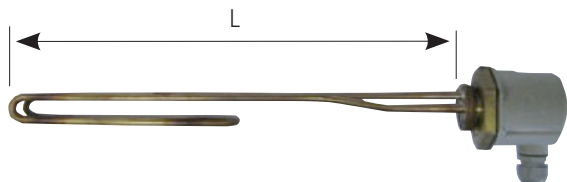
B0666 Resistance for boiler 3 kW

B0617 Flange resistance kit

OPTIONAL

ELECTRIC HEATING ELEMENTS

Electric immersion heating element in copper, IP 65, with internal adjustable thermostat and temperature limiter.



Code	W	V	KG	L MM	ATT.
B0618	2000	230	1,5	390	1"1/2
B0666	3000	230	1,5	390	1"1/2

FLANGE for HEATING ELEMENT

Compulsory accessory for correct positioning of the electric heating elements if used for the purpose of anti-legionella cycles.

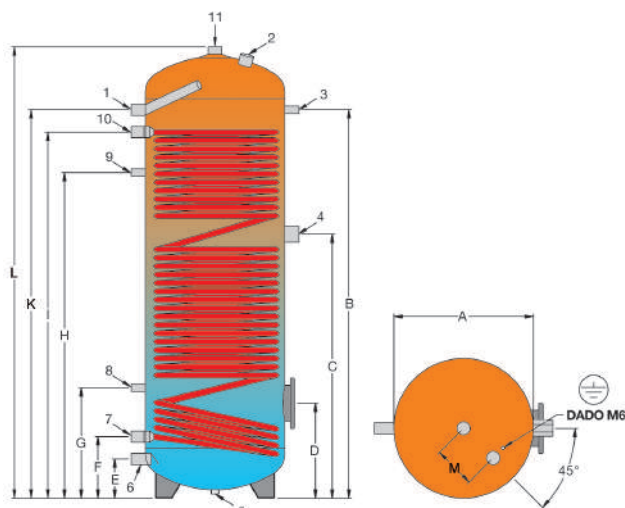
HIGH EFFICIENCY DHW TANKS HE/HES

Energy class **B**

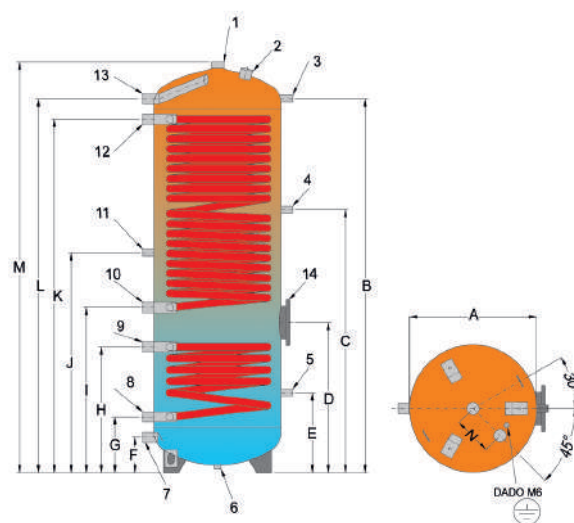
STORAGE TANK FOR DOMESTIC HOT WATER PRODUCTION FROM HEAT PUMP (HE) AND SOLAR PANELS (HES).

Storage tank with 1 or 2 coils with high exchange surface in carbon steel, complete with anodic protection, internal vitrification treatment according to DIN 4753-3 and UNI 10025 standards. Insulation: Rigid polyurethane thickness 70 mm

HE
1-coil storage tank (high surface for heat pump)



HES
2-coil storage tank (high surface for heat pump + solar)



N°	TYPE OF ATTACHMENT	200 ÷ 300
1.	Hot water flow	1"
2.	Anode	1" 1/4
3.	Thermometer-Probe	1/2"
4.	Electric heating element	1" 1/2
5.	Pallet attachment (blind)	1/2"
6.	Cold water inlet	1"
7.	Coil return	1"
8.	Thermostat	1/2"
9.	Recirculation	1/2"
10.	Coil flow	1"
11.	Hot water flow	1" 1/4

N°	TYPE OF ATTACHMENT	300
1.	Hot water flow	1" 1/4
2.	Anode	1" 1/4
3.	Thermometer-Probe	1/2"
4.	Thermostat	1/2"
5.	Thermostat	1/2"
6.	Pallet attachment (blind)	1/2"
7.	Cold water inlet	1"
8.	Lower coil return	1"
9.	Lower coil flow	1"
10.	Upper coil return	1"
11.	Recirculation	1/2"
12.	Upper coil flow	1"
13.	Hot water flow	1"
14.	Flange with electric heating element attachment	1" 1/2

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
HE 200	500	995	735	320	140	220	370	835	990	-	1070	1215	150	-
HE 300	500	1390	945	340	140	220	395	1165	1310	-	1390	1615	150	-
HES 300	500	1470	1035	590	315	140	220	495	650	865	1390	1470	1615	150

HYBRID DHW TANKS HY / HYS

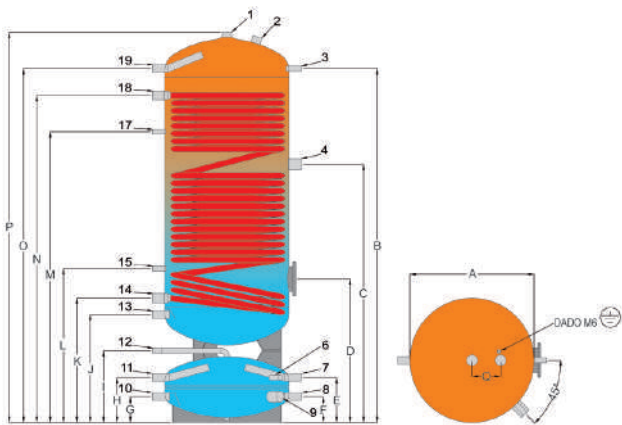
Energy class **B**

COMBINED HEAT STORAGE: STORAGE TANK FOR THE PRODUCTION OF DOMESTIC HOT WATER FROM HEAT PUMP (HY) AND SOLAR PANELS (HYS) AND INERTIAL STORAGE FOR SYSTEM WATER

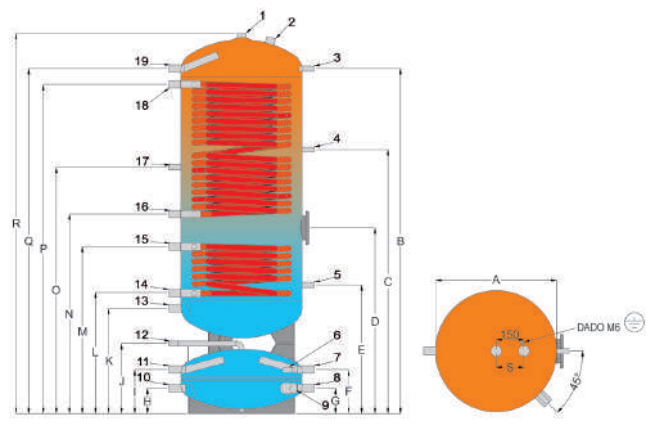
Upper cylinder with 1 or 2 carbon steel coils with large exchange surface, complete with anodic protection and internal vitrification treatment in compliance with DIN 4753-3 and EN 10025 Standards. Lower storage tank for heating or cooled water, interior not treated.

Insulation: Rigid polyurethane with thickness of 70 mm

HY
1-coil storage tank
(for heat pump + buffer tank)



HYS
2-coil storage tank
(per heat pump + solar + buffer tank)



N°	TYPE OF ATTACHMENT	300
1.	Domestic hot water flow	1" 1/4
2.	Anode	1" 1/4
3.	Thermometer	1/2"
4.	Electric heating element	1" 1/2
6.	Probe	1/2"
7.	Boiler flow	1"
8.	Boiler return	1"
9.	Electric heating element	1" 1/2
10.	Heating system return	1"
11.	System flow	1"
12.	Vent	1/2"
13.	Domestic cold water inlet	1"
14.	Coil return	1" 1/4
15.	Probe	1/2"
17.	Recirculation	1/2"
18.	Upper coil flow	1" 1/4
19.	Domestic hot water flow	1"

N°	TYPE OF ATTACHMENT	300
1.	Domestic hot water flow	1" 1/4
2.	Anode	1" 1/4
3.	Thermometer	1/2"
4.	Probe	1/2"
5.	Probe	1/2"
6.	Probe	1/2"
7.	Boiler flow	1"
8.	Boiler return	1"
9.	Electric heating element	1" 1/2
10.	Heating system return	1"
11.	System flow	1"
12.	Vent	1/2"
13.	Domestic cold water inlet	1"
14.	Lower coil return	1"
15.	Lower coil flow	1"
16.	Upper coil return	1"
17.	Recirculation	1"
18.	Upper coil flow	1"
19.	Domestic hot water flow	1"

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
HY 300	550	1755	1300	875	340	160	160	340	505	675	765	940	1425	1675	1755	1925	150	-	-
HYS 300	550	1755	1420	1035	810	340	160	160	340	505	675	755	945	1125	1280	1675	1755	1925	150

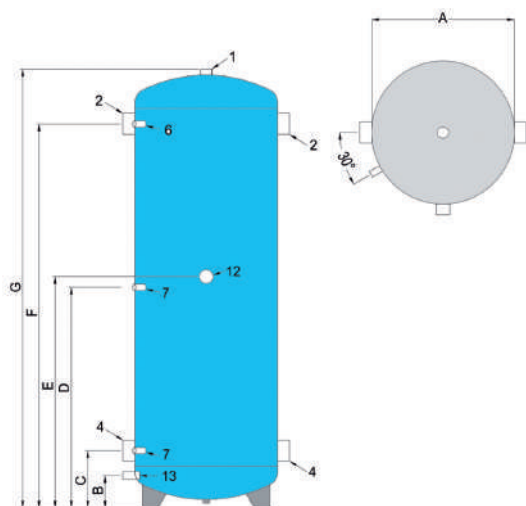
THERMAL ACCUMULATIONS

Energy class **B**

INERTIAL THERMO ACCUMULATION

Storage for chilled water, internal untreated. Can also be used for heating water.

Insulation: Polyurethane 50 mm



N°	TYPE OF ATTACHMENT	50 ÷ 100
1.	Vent	1"
2.	Water connection	1" 1/4
3.	Water connection	1" 1/4
4.	Probe	1/2"
5.	Probe	1/2"
6.	Electric heating element	1" 1/2
13.	Drain	1/2"

Model	A	B	C	D	E	F	G
50	300	100	180	485	530	785	935
100	400	100	185	560	605	935	1095

SHERPA SHW[®]

Heat pump water heater.



PHOTOVOLTAIC INTEGRATION

Contact for integration with photovoltaic plant, which forces switch-on and raises the machine set-point. The energy produced by the photovoltaic system is stored to lower the DHW production costs and maximise the energy saving.



MANAGEMENT OF SOLAR ENERGY

Compatible with the solar thermal system: the unit can work with a second energy source such as solar panels.



SMART CONTROL

The effective heat pump set is adjusted by a climatic curve, so that in the case of hot air withdrawn from the outside (over 25°C with water at 65°C, over 35°C with water at 55°C), high pressure alarms are prevented. The electric heating element automatically integrates the temperature of the tank at the desired set whenever the effective set is adjusted by the climatic curve.



HIGH EFFICIENCY

High efficiency compressor with R134a refrigerant.



DHW PRODUCTION TO -10°C

Production of DHW in heat pump mode with air temperature up to -10°C.

FEATURES

COP>2,6* DHW at 65°

Energy class: A

Work range in heat pump with air temperature from -10°C to 43°C.

Carbon steel tank with double-layer vitrification.

Anti-corrosion magnesium anode to ensure the durability of the tank.

Condenser wrapped externally to the storage tank free from encrustations and gas-water contamination.

Thermal insulation in rigid polyurethane foam (PU) thickness 45 mm.

External coating in plastic material.
Upper cover in acoustically insulated plastic.

High efficiency compressor with R134a ** refrigerant.

Safety devices for high and low gas pressure.

Electric heating element available in the unit as back-up (with integrated thermostat with safety at 90°C), which ensures hot water at a constant temperature even in extreme winter conditions.

ON-OFF contact to start the unit from an external switch.

Weekly disinfection cycle.

Possibility to manage the recirculation of domestic hot water or solar integration (presence of a dedicated temperature probe, flow switch input and control for an external pump).

.Electronic expansion for precise control.

* Values obtained with external air temperature 7°C and relative humidity 87%, water inlet temperature 10°C and set temperature 55°C (EN 16147).

** Non-hermetically sealed equipment containing fluorinated gas with GWP equivalent 1430.

2 VERSIONS:

- SHERPA SHW 200

Standard model with heat pump and electric heating element with 200l tank

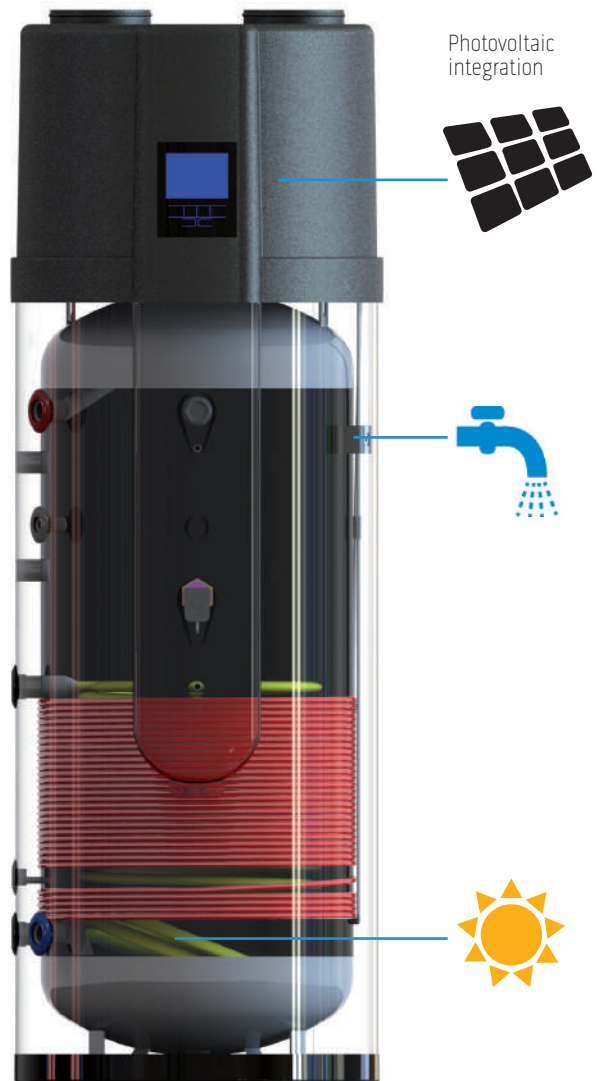
- SHERPA SHW 300S

Model with coil for solar panels with 300l tank and electric heating element

SHERPA SHW 200



SHERPA SHW 300S



Size	CODE	PHASE OUT	
		SHERPA SHW 200	SHERPA SHW 300S
Tank rated capacity	l	200	300
COP*		> 2,6	> 2,6
Energy class		A	A
Minimum air temperature	°C	-10	-10
Maximum air temperature	°C	43	43
Refill times	h:min	6:30	8:10
Refill times with active heating element	h:min	3:00	3:50
Sound power	dB(A)	59	59
Average electric consumption	kW	0,56	0,56
Maximum quantity of hot water at 40°C*	l	235	315
Water flow rate maximum operating pressure	MPa	1	1
Voltage	V/W	220-240	220-240
Electric heating element output	W	1200	1200
Heat output	W	1870	1870
Standard air flow rate	m³/h	450	450
Minimum volume of the place of installation	m³	20	20
Empty weight	Kg	112	137
Protection rating	IP	IPX1	IPX1
Insulation thickness	mm	45	45
Maximum temperature of the storage room	°C	43	43
Minimum temperature of the storage room	°C	-10	-10
Exchange surface of the solar thermal coil (lower)	m²	-	1,20
Static pressure available	Pa	60	60
Load Profile		L	L
Refrigerant gas **		R134A	R134A
R134A gas load		0,92	0,92

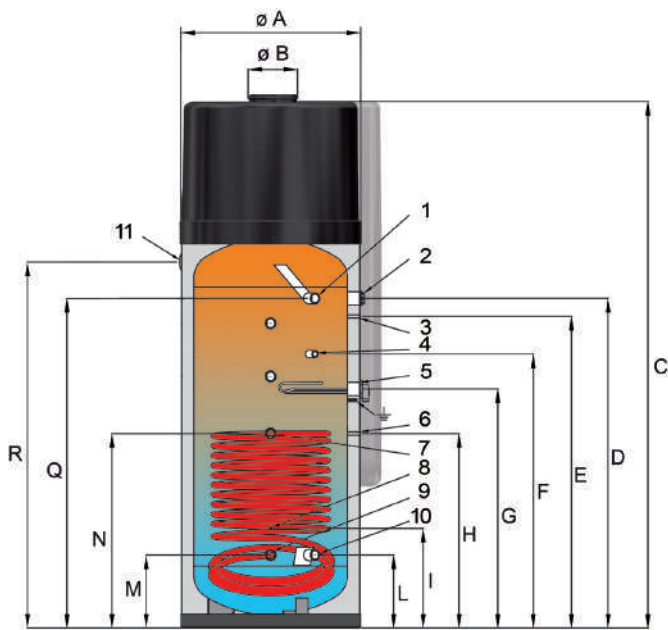
* Values obtained with external air temperature 7°C and relative humidity 87%, water inlet temperature 10°C and set temperature 55°C (EN 16147).

** Non-hermetically sealed equipment containing fluorinated gas with GWP equivalent 1430.

ACCESSORIES

B0841	1°F flow switch kit	PHASE OUT
B0842	Kit temperature probe	PHASE OUT

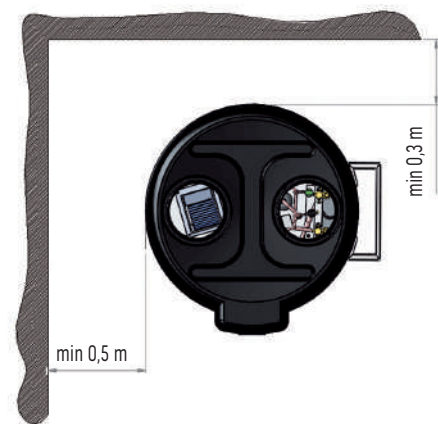
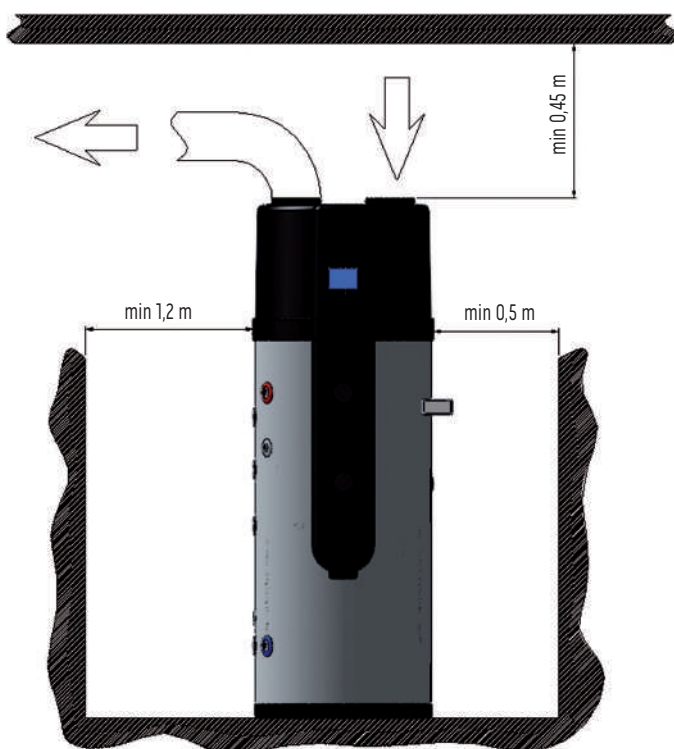




N°	TYPE OF ATTACHMENT	200 ÷ 300
1.	Hot water flow	1"
2.	Anode	1" 1/4
3.	Tank upper temperature probe	ø 10
4.	Recirculation	1/2"
5.	Electric heating element	1" 1/4
6.	Tank lower temperature probe	ø 10
7.	Solar energy flow	1"
8.	Tank temperature auxiliary probe	ø 10
9.	Solar energy return	1"
10.	Domestic cold water inlet	1"
11.	Condensate drain	ø 16

Model	A	B	C	D	E	F	G	H	I	L	M	N	Q	R
200	654	177	1638	1007	862	742	742	567	-	257	257	692	927	1063
300	654	177	1888	1177	1112	977	852	692	352	257	257	692	1177	1313

SAFETY DISTANCES







Bi2

THE SYSTEM TERMINALS

For comfort throughout
the year



Italian design winner of numerous international awards

Ultraslim and slim innovation

Attention to design and harmonious integration into the architecture has led Olympia Splendid to reinvent system terminals. The first to introduce ultraslim and slim fan coil convectors to the market, today the brand is synonymous of reduced thickness: in just 12.9 or 17.9 cm, Olympia Splendid encompasses year-round comfort.

Design signed by Italian studios

The Bi2 system terminals boast prestigious names in the world of Italian industrial design. Each product is in fact designed with particular attention to architectural integration and ease of installation, management and maintenance. Olympia Splendid has won 7 international awards for the aesthetics of its fan coil convectors, from 2013 to today.

Made in Italy quality

Olimpia Splendid production is within its headquarters in Cellatica (BS). The typically Italian attention to detail is a further guarantee of product quality.

ULTRASLIM

Thickness 12,9 cm



SLIM

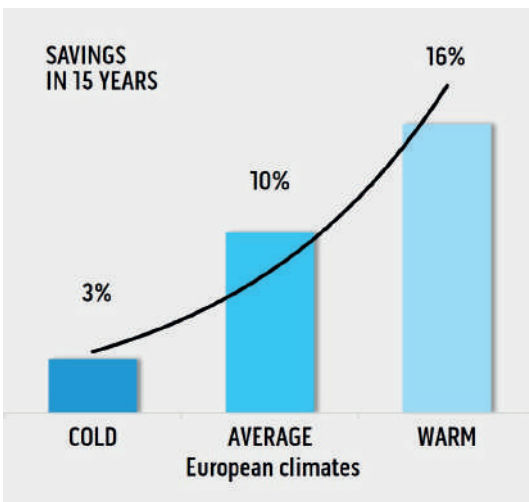
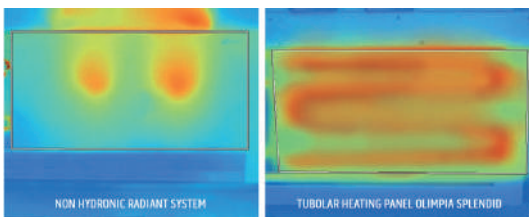
Thickness 17,9 cm





Olimpia Splendid participates in the EUROVENT: FCU program. The products mentioned are available at www.eurovent-certification.com

Innovative solutions to rethink the system terminals



Olimpia Splendid radiant technology

The Bi2 terminals are also available in the fan coil radiator version, with a tubular heating panel, in addition to the coil, which stands out for its superior performance compared to other systems with radiant technology on the market:

- higher radiated power, thanks to the higher average surface temperature;
- amplification of natural convection;
- possibility of static operation (fan off) for the complete absence of noise.

Comfort and optimised running costs

The slim and ultraslim fan coil radiators offer comfort at least equal to that of floor heating, with greater flexibility, lower installation costs and more economical running, especially in warmer climates. The data shown in the graph refer to a comparative study commissioned by Olimpia Splendid to evaluate the different performances of a system, depending on whether the fan coil radiator type terminals are used rather than the floor heating.

Fan coil units range

Continuous products and 2021 news






















+ 2021 PRODUCT INNOVATION

		FAN COIL RADIATORS		FAN COIL CONVECTORS	
		DC MOTOR		DC MOTOR	
RANGE B12	CABINET	<p>SLR Smart inverter - Ultraslim 12.9 cm of thickness Total flat design</p> <p>SLR SMART 200 B DC (01629) SLR SMART 400 B DC (01630) SLR SMART 600 B DC (01631) SLR SMART 800 B DC (01632) SLR SMART 1000 B DC (01633)</p>  <p>PAGE 94</p>	<p>SL Smart inverter - Ultraslim 12.9 cm of thickness Total flat design</p> <p>SL SMART 200 B DC (01634) SL SMART 400 B DC (01635) SL SMART 600 B DC (01636) SL SMART 800 B DC (01637) SL SMART 1000 B DC (01638)</p>  <p>PAGE 98</p>		
		<p>SLR Air inverter - Ultraslim 12.9 cm of thickness Integral design Multiset control</p> <p>SLR AIR 200 DC TR (01856) SLR AIR 400 DC TR (01857) SLR AIR 600 DC TR (01858) SLR AIR 800 DC TR (01859) SLR AIR 1000 DC TR (01860)</p> <p>SLR AIR 200 DC AR (01772) SLR AIR 400 DC AR (01773) SLR AIR 600 DC AR (01774) SLR AIR 800 DC AR (01775) SLR AIR 1000 DC AR (01776)</p>  <p>PAGE 78</p>	<p>SL Air inverter - Ultraslim 12.9 cm of thickness Integral design Multiset control</p> <p>SL AIR 200 DC TR (01851) SL AIR 400 DC TR (01852) SL AIR 600 DC TR (01853) SL AIR 800 DC TR (01854) SL AIR 1000 DC TR (01855)</p> <p>SL AIR 200 DC AR (01767) SL AIR 400 DC AR (01768) SL AIR 600 DC AR (01769) SL AIR 800 DC AR (01770) SL AIR 1000 DC AR (01771)</p>  <p>PAGE 84</p>		
		<p>SLR Air inverter - Slim 17.9 cm of thickness Integral design Multiset control</p> <p>SLR AIR DC 1400 TR (02052) SLR AIR DC 1600 TR (02054)</p>  <p>PAGE 80 APRIL '21</p>	<p>SL Air inverter - Slim 17.9 cm of thickness Integral design Multiset control</p> <p>SL AIR DC 1400 TR (02048) SL AIR DC 1600 TR (02050)</p> <p>SL AIR DC 1400 AR (02049) SL AIR DC 1600 AR (02051)</p>  <p>PAGE 86 APRIL '21</p>		
	RECESSED	<p>SLIR Naked inverter - Ultraslim Formwork 14.2 cm of thickness</p> <p>SLI R 200 DC (01639) SLI R 400 DC (01640) SLI R 600 DC (01641) SLI R 800 DC (01642) SLI R 1000 DC (01643)</p>  <p>PAGE 114</p>	<p>SLI Naked inverter - Ultraslim Formwork 14.2 cm of thickness</p> <p>SLI 200 DC (01513) SLI 400 DC (01514) SLI 600 DC (01515) SLI 800 DC (01516) SLI 1000 DC (01517)</p>  <p>PAGE 120</p>		
		<p>SLIR Naked inverter - Slim Formwork 21.7 cm of thickness</p> <p>SLI R 1400 DC (02071) SLI R 1600 DC (02072)</p>  <p>PAGE 116 APRIL '21</p>	<p>SLI Naked inverter - Slim Formwork 21.7 cm of thickness</p> <p>SLI 1400 DC (02056) SLI 1600 DC (02057)</p>  <p>PAGE 122 APRIL '21</p>		
	HIGH-WALL			<p>SLW Wall inverter Reversible installation Multiset control</p> <p>SLW 400 DC V2V TR (01784) SLW 600 DC V2V TR (01785) SLW 800 DC V2V TR (01786) SLW 400 DC V3V TR (01787) SLW 600 DC V3V TR (01788) SLW 800 DC V3V TR (01789)</p> <p>SLW 400 DC V2V AR (01875) SLW 600 DC V2V AR (01876) SLW 800 DC V2V AR (01877) SLW 400 DC V3V AR (01878) SLW 600 DC V3V AR (01879) SLW 800 DC V3V AR (01880)</p>  <p>PAGE 90</p>	
RANGE C12			<p>LGW WALL S1 inverter Motorised flap 3-way valve included (4 wires)</p> <p>LGW WALL S1 1200 DC (99283) LGW WALL S1 1400 DC (99284)</p>  <p>PAGE 126 APRIL '21</p>		

Fan coil units range

Out of stock products

 OUT OF STOCK PRODUCT

		FAN COIL RADIATORS		FAN COIL CONVECTORS		
		DC MOTOR		AC MOTOR		DC MOTOR
RANGE B12	CABINET			 <p>SL Smart - Ultraslim 12.9 cm of thickness Total flat design</p> <p>SL SMART 200 B (01409)  SL SMART 400 B (01410)  SL SMART 600 B (01411)  SL SMART 800 B (01412)  SL SMART 1000 B (01413) </p> <p>PAGE 102</p>		
		 <p>SLR+ inverter - Ultraslim 12.9 cm of thickness Total metal design</p> <p>SLR+200 B HE DC (01609)  SLR+400 B HE DC (01610)  SLR+600 B HE DC (01611)  SLR+800 B HE DC (01612)  SLR+1000 B HE DC (01613) </p> <p>PAGE 106</p>			 <p>SL+ inverter - Ultraslim 12.9 cm of thickness Total metal design</p> <p>SL+ 200 B HE DC (01619)  SL+ 400 B HE DC (01620)  SL+ 600 B HE DC (01621)  SL+ 800 B HE DC (01622)  SL+1000 B HE DC (01623) </p> <p>PAGE 110</p>	
RANGE C12	HIGH-WALL					 <p>LGW inverter Motorised flap 3-way valve included</p> <p>LGW WALL 1200 DC (99353)  LGW WALL 1400 DC (99354) </p> <p>PAGE 126</p>

Bi2 Compatibility

Description	Kit Code	OPTIMAL COMPATIBILITY											
		DC motor										AC motor	
		SLR+	SL+	SLR Air	SL Air	SLW	SLR SMART	SL SMART	SLIR	SLI	SL SMART		
AC electronic control on the machine	B0659												X
DC electronic control on the machine	B0673	X	X					X	X				
Autonomous control on the touch flat DC machine (sizes from 200 to 1000)	B0828	X	X					X	X	X	X		
Autonomous control on the touch flat DC machine (sizes 1400-1600)	B0872									X	X		
Autonomous control on the touch flat AC machine	B0855												X
Electronic kit for remote control 0-10 Volt or contacts, DC* (sizes from 200 to 1000)	B0756	X	X					X	X	X	X		
Electronic kit for remote control 0-10 Volt or contacts, DC (sizes 1400-1600)*	B0873									X	X		
Electronic kit for remote control with contacts, AC	B0707												X
LCD broadcast wall-mounted programmable thermostat	B0736	X B0828	X B0828	X TR	X TR	X TR	X B0828	X B0828	X B0828 B0872	X B0828 B0872	X B0855		
Wall control	B0151		X + B0756		X AR	X AR		X + B0756		X + B0756 B0873	X + B0707		
Recessed wall control	B0152		X + B0756		X AR	X AR		X + B0756		X + B0756 B0873	X + B0707		
Manual two-way valve assembly kit**	B0205	X	X	X	X			X	X	X	X	X	X
Manual valves isolation kit	B0204	X + B0205	X + B0205	X + B0205	X + B0205			X + B0205	X + B0205	X + B0205	X + B0205	X + B0205	X + B0205
Two-way valve group kit with thermoelectric actuator	B0832	X	X	X	X			X	X	X	X	X	X
Three-way valve group kit with thermoelectric actuator	B0834	X	X	X	X			X	X	X	X	X	X
Kit pair adapters 3/4 Eurokonus - 1/2"	B0200	X	X	X	X			X	X	X	X	X	X
Kit pair adapters 3/4 Eurokonus - 3/4"	B0201	X	X	X	X			X	X	X	X	X	X
Eurokonus 90° curve kit	B0203	X	X	X	X			X	X	X	X	X	X
Extension cord control panel kit	B0459												X
Extension cord control panel kit	B0632/ B0633	X	X					X	X		X		
Extension cord control panel kit	B0839			X	X								

* if a Bi2 with heating panel is used, the management system must support the heating version (OS heating + logic). The B0756 kit in combination with a Bi2 with heating panel can only be used in contact mode and not in 0-10V mode.

** if a Bi2 with heating panel is used, the solenoid valves on the manifold managed by the Bi2 terminal control kit can replace those on board.

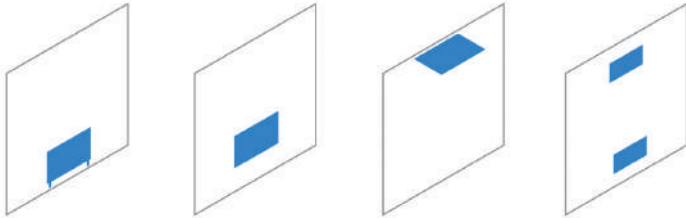


Mandatory factory addressing of kits for remote control in case of remote management via Modbus connection

Installation

The choice of position

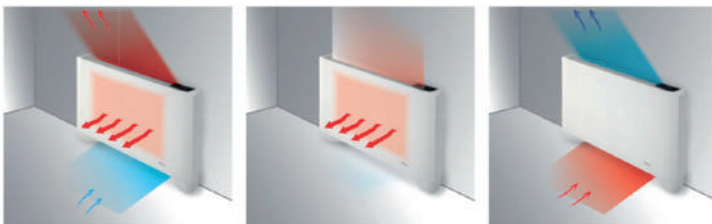
The Bi2 system terminals are extremely versatile and can be installed both on the floor and on a low wall. The SL models, with traditional convection technology, are also suitable for ceiling installation, while the SLW solutions are easily placed on high or low walls, with a considerably reduced footprint, thanks to the console format.



Operation

The modes for providing comfort

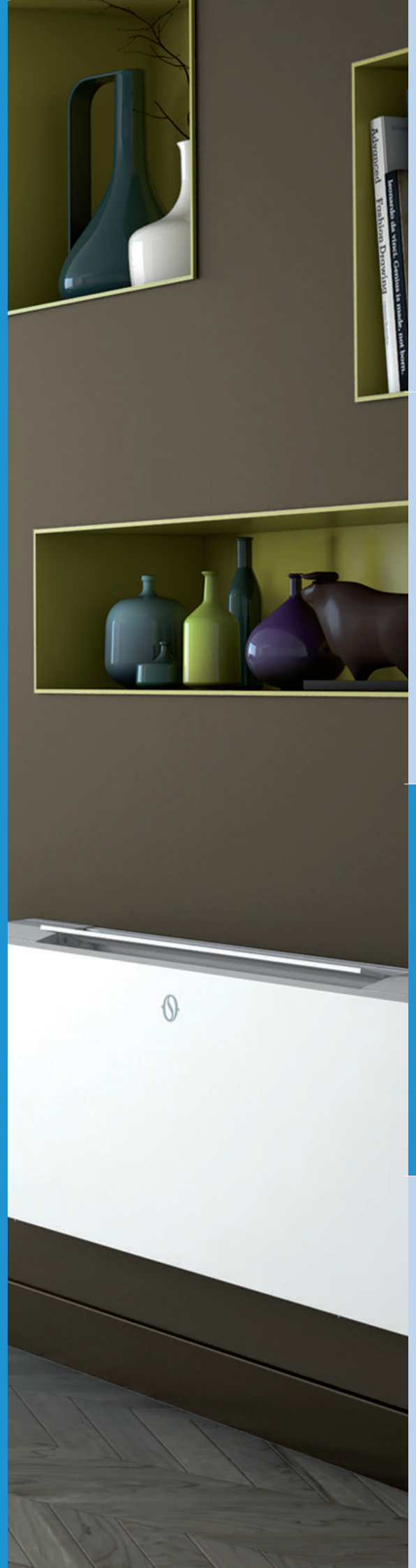
The structure of the fan of the Bi2 terminals and the electric motor that modulates its speed ensure even air distribution and homogeneity of temperature in the environment. The entire range has two operating modes: heating and cooling, with forced convection. In the SLR models, with Olimpia Splendid radiant technology, the heating mode also works in static mode (fan off), with natural convection and radiation from the front panel, for maximum acoustic comfort.



Maintenance

How to clean the terminal

The easily removable air filters make cleaning and maintenance of the terminal particularly easy, even in the built-in models.



Bi2 AIR



SLR Air inverter - ultraslim



Compatible with:



RADIANT TECHNOLOGY

Terminal with tubular heating panel for maximum acoustic and climate comfort.



INTEGRAL DESIGN

Front and side panels are joined for easy installation and maintenance.



MULTISET CONTROL

Integrated electronics allows touch operation, remote control and home automation connection.

FEATURES

- Heats, Cools, Dehumidifies and Filters
- Terminal with integrated heating panel
- Integral aesthetics with suction from the lower side
- Front in metal, sides in ABS
- Compact: Thickness min 12.9 cm max 15 cm
- Range consisting of 5 power models
- Brushless DC motor
- Monoblock body for work in comfort
- Motorised steel air delivery flap
- Anti-intrusion grilles on the air intake and outlet
- Extractable filters placed on the air intake
- Remote control supplied (only for TR control)
- Available in the colours: White RAL 9003
- Installation: floor, wall



MULTISET CONTROL

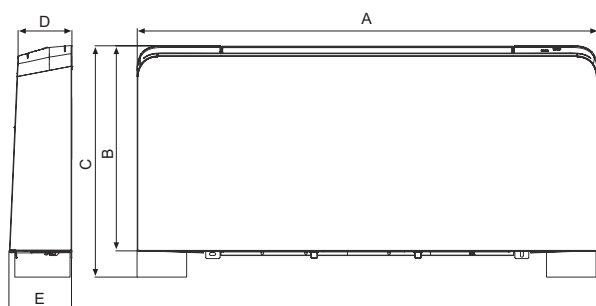
TR COMMAND (Touch Remote):

Touch control on the machine and remote control supplied.

By means of a selection of buttons on the machine it is possible to remotise * with remote control on the wall (chronothermostat cod. B0736, optional) or with home automation, through the Modbus RS485 signal protocol

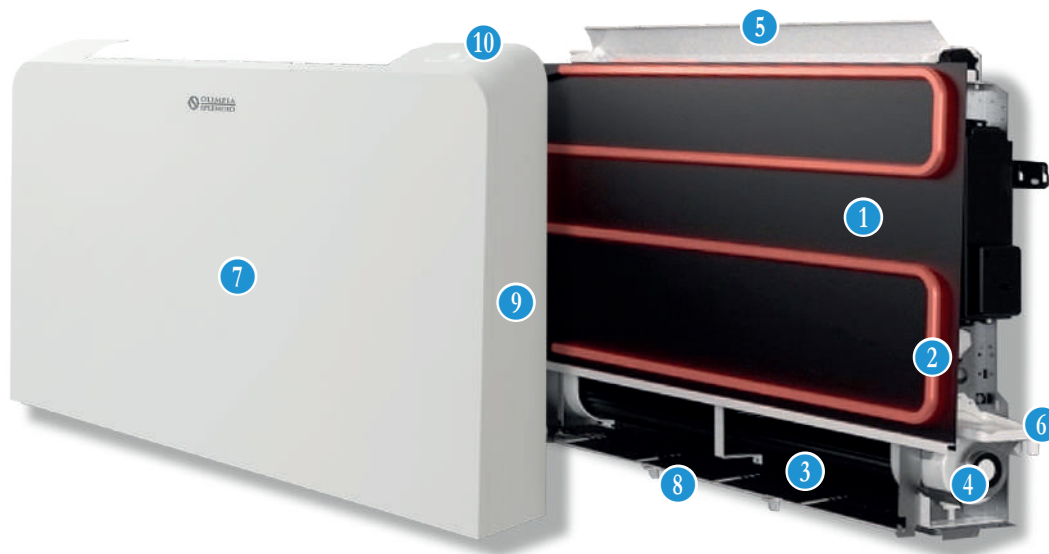
AR (Analogic Remote) COMMAND:

Analog control for universal remote control with wall controls or home automation systems, through the 0-10V signal or 4-speed digital.



		200	400	600	800	1000
A	mm	695	895	1095	1295	1495
B	mm	599	599	599	599	599
C	mm	679	679	679	679	679
D	mm	129	129	129	129	129
E	mm	150	150	150	150	150
Net weight	kg	13,5	15,5	19,5	22,5	25,5

* With the exception of the combination with SIOS Control, in all other cases: Touch control on the machine, air probe on the machine and remote control disabled



- 1 Heat exchange battery
- 2 High efficiency heating panel
- 3 Tangential fan
- 4 DC Brushless electric motor
- 5 Discharge air flap and anti-intrusion delivery grille
- 6 Condensate collection tray
- 7 Front body in electro-galvanised sheet
- 8 Anti-intrusion intake grille
- 9 ABS sides
- 10 Touch control on the machine (TR version)

MODEL		SLR Air inverter - ultraslim																
		200			400			600			800			1000				
SLR Air inverter (with command TR)		cod.	01856			01857			01858			01859			01860			
SLR Air inverter (with command AR)		cod.	01772			01773			01774			01775			01776			
Fan speed			Lower	Middle	High	Lower	Middle	High	Lower	Middle	High	Lower	Middle	High	Lower	Middle	High	
Total power output in cooling mode	a27/19 - w7/12	(a) (E)	kW	0.38	0.71	0.82	0.91	1.34	1.74	1.50	2.10	2.54	1.98	2.69	3.29	2.17	3.25	3.78
Sensitive power output in cooling mode	a27/19 - w7/12	(a) (E)	kW	0.26	0.50	0.64	0.65	1.02	1.25	1.10	1.56	1.94	1.54	2.09	2.54	1.71	2.42	2.98
Fluid flow rate	a27/19 - w7/12	(a)	l/h	66.2	123.3	142.9	157.6	232.0	302.5	259.2	363.1	440.3	341.9	464.7	570.0	374.8	561.4	654.8
Water side head loss	a27/19 - w7/12	(a) (E)	kPa	3.8	10.6	13.1	2.4	5.5	8.2	7.5	14.2	19	7.3	13.8	18.7	5.7	13.1	18.2
Total power output in heating mode	a20/15 - w50/-	(b) (E)	kW	0.64	0.84	1.05	1.25	1.65	2.31	1.75	2.56	3.12	2.21	3.10	4.10	3.05	3.77	4.67
Fluid flow rate	a20/15 - w50/-	(b)	l/h	66.2	123.3	142.9	157.6	232.0	302.5	259.2	363.1	440.3	341.9	464.7	570.0	374.8	561.4	654.8
Water side head loss	a20/15 - w50/-	(b) (E)	kPa	3.2	8.8	10.9	2.0	4.6	6.8	6.2	11.8	15.8	6.1	11.5	15.5	4.7	10.9	15.1
Total power output in heating mode	a20/15 - w45/40	(c) (E)	kW	0.54	0.70	0.88	1.06	1.39	1.94	1.46	2.14	2.60	1.85	2.60	3.44	2.56	3.16	3.91
Fluid flow rate	a20/15 - w45/40	(c)	l/h	91.9	119.9	150.0	181.9	238.1	330.3	250.6	365.7	444.6	316.6	444.8	587.9	438.1	541.0	668.5
Water side head loss	a20/15 - w45/40	(c) (E)	kPa	5.7	8.8	12.2	2.9	4.8	7.9	5.8	11.8	16.0	4.1	8.9	14.2	6.4	9.8	13.9
Absorbed power		(E)	W	5	7	11	6	9	19	7	11	20	8	12	24	9	14	27
Sound Power Lw(A)		(E)	dB(A)	38	45	52	39	46	53	41	47	53	42	48	54	42	48	54
Sound pressure Lp (A)		(d)	dB(A)	29	36	43	30	37	44	32	38	44	33	39	45	33	39	45
Air flow		(f)	m3/h	100	130	160	190	250	320	280	360	460	350	450	575	400	510	650
Battery water content			l	0.47			0.8			1.13			1.46			1.8		
Maximum operating pressure			bar	10			10			10			10			10		
Hydraulic fittings			inches	Eurocone 3/4			Eurocone 3/4			Eurocone 3/4			Eurocone 3/4			Eurocone 3/4		
Electrical power supply			V/ph/Hz	230/1/50			230/1/50			230/1/50			230/1/50			230/1/50		
Max static heating efficiency (50°C)			kW	0.37			0.42			0.5			0.62			0.77		
Max static heating efficiency (70°C)			kW	0.59			0.71			0.84			1.04			1.28		
Water content of the radiant panel			l	0.19			0.27			0.35			0.43			0.50		

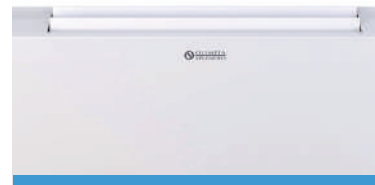
The above services refer to the following operating conditions:

- (a) Cooling mode at standard conditions: air temperature 27°C b.s., 19°C b.u., water inlet temperature 7°C, water outlet temperature 12°C
- (b) Heating mode conditions of use 1: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 50°C, water flow equal to the cooling water standard condition
- (c) Heating mode standard conditions: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 45°C, water outlet temperature 40°C
- (d) Sound pressure level valid for closed rooms with a volume of 100 m3 with a reverberation time of 0.5 s and installation on the floor/ceiling, sound emission on 1/4 sphere at 3 m distance
- (E) Eurovent certified data
- (f) Air flow rate measured with clean filters

NEW

Bi2 AIR

SLR Air inverter - slim



Compatible with:



PRO-POWER

Up to 4.85 kW of power, for larger spaces and colder climates.



RADIANT TECHNOLOGY

Terminal with tubular heating panel for maximum acoustic and climate comfort.



INTEGRAL DESIGN

Front and side panels are joined for easy installation and maintenance.

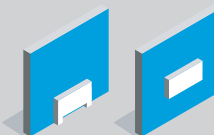


MULTISET CONTROL

Integrated electronics allows touch operation, remote control and home automation connection.

FEATURES

- Heats, Cools, Dehumidifies and Filters
- Terminal with integrated heating panel
- Integral aesthetics with suction from the lower side
- Front in metal, sides in ABS
- Compact: Thickness min 17.9 cm max 20 cm
- Range consisting of 2 power models
- Brushless DC motor
- Monoblock body for work in comfort
- Motorised steel air delivery double flap
- Anti-intrusion grilles on the air intake and outlet
- Extractable filters placed on the air intake
- Remote control supplied (only for TR control)
- Available in the colours: White RAL 9003
- Floor and wall installation



MULTISET CONTROL

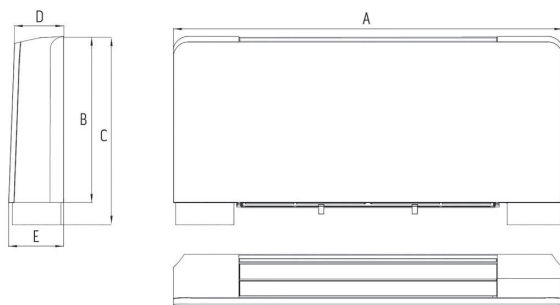
TR COMMAND (Touch Remote):

Touch control on the machine and remote control supplied.

By means of a selection of buttons on the machine it is possible to remotise * with remote control on the wall (chronothermostat cod. B0736, optional) or with home automation, through the Modbus RS485 signal protocol

AR (Analogic Remote) COMMAND:

Analog control for universal remote control with wall controls or home automation systems, through the 0-10V signal or 4-speed digital.



		1400	1600
A	mm	1345	1415
B	mm	599	599
C	mm	719	719
D	mm	179	179
E	mm	200	200
Net weight	kg	24,5	26

* With the exception of the combination with SIOS Control, in all other cases: Touch control on the machine, air probe on the machine and remote control disabled



- 1 Heat exchange battery
- 2 High efficiency heating panel
- 3 Tangential fan
- 4 DC Brushless electric motor
- 5 Discharge air flap and anti-intrusion delivery grille
- 6 Condensate collection tray
- 7 Front body in electro-galvanised sheet
- 8 Anti-intrusion intake grille
- 9 ABS sides
- 10 Touch control on the machine (TR version)

PRELIMINARY TECHNICAL DATA

MODEL				SLR Air inverter - slim						
				1400			1600			
SLR Air inverter (with command TR)		cod.		02052			02054			
SLR Air inverter (with command AR)		cod.		02053			02055			
Fan speed				Lower	Middle	High	Lower	Middle	High	
Total power output in cooling mode		a27/19 - w7/12	(a)	kW	3.05	3.78	4.45	3.28	4.09	4.85
Sensitive power output in cooling mode		a27/19 - w7/12	(a)	kW	2.14	2.69	3.20	2.30	2.90	3.50
Fluid flow rate		a27/19 - w7/12	(a)	l/h	525.6	652.4	769.9	565.2	706	839.2
Water side head loss		a27/19 - w7/12	(a)	kPa	19	27.8	37.2	20.9	30.8	41
Total power output in heating mode		a20/15 - w50/-	(b)	kW	3.61	4.53	5.50	3.85	4.87	5.90
Fluid flow rate		a20/15 - w50/-	(b)	l/h	525.6	652.4	769.9	565.2	706	839.2
Water side head loss		a20/15 - w50/-	(b)	kPa	16.2	23.7	31.7	19.4	28.6	35.7
Total power output in heating mode		a20/15 - w45/40	(c)	kW	3.07	3.87	4.70	3.28	4.16	5.05
Fluid flow rate		a20/15 - w45/40	(c)	l/h	527.1	663.4	803.9	563.1	713	863.6
Water side head loss		a20/15 - w45/40	(c)	kPa	17.1	25.8	35.5	20.2	30.8	38.8
Absorbed power				W	6	13	26	6	15	29
Sound Power Lw(A)				dB(A)	38	49	54	39	50	55
Sound pressure Lp (A)			(d)	dB(A)	30	41	46	31	42	47
Air flow			(f)	m ³ /h	460	610	765	490	655	820
Battery water content				l	2.33			2.5		
Maximum operating pressure				bar	10			10		
Hydraulic fittings				inches	Eurocone 3/4			Eurocone 3/4		
Electrical power supply				V/ph/Hz	230/1/50			230/1/50		
Max static heating efficiency (50°C)				kW	0.45			0.5		
Max static heating efficiency (70°C)				kW	0.8			0.9		
Water content of the radiant panel				l	0.43			0.43		






The above services refer to the following operating conditions:

- (a) Cooling mode at standard conditions: air temperature 27°C b.s., 19°C b.u., water inlet temperature 7°C, water outlet temperature 12°C
- (b) Heating mode conditions of use 1: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 50°C, water flow equal to the cooling water standard condition
- (c) Heating mode standard conditions: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 45°C, water outlet temperature 40°C
- (d) Sound pressure level valid for closed rooms with a volume of 100 m³ with a reverberation time of 0.5 s and installation on the floor/ceiling, sound emission on 1/4 sphere at 3 m distance
- (e) Eurovent certified data
- (f) Air flow rate measured with clean filters


ACCESSORIES












SLR AIR INVERTER - ULTRASLIM E SLIM

Accessories control TR

	CODE	DESCRIPTION	COMBINATIONS
ON BOARD CONTROL	INSTALLED AS STANDARD 	<p>The TR (Touch Remote) control includes a touch control on the machine and a remote control (supplied). Furthermore, through a combination of keys, it is possible to remotely command the control with a B0736 wall remote control or a home automation system (Olimpia Splendid or compatible), through the Modbus RS485 ASCII serial protocol (configurable ASCII or RTU for sizes 1400 and 1600). Furthermore, through the user interface, only for sizes 1400 and 1600, it is possible to add a correction on the room temperature read.</p>	B0736  My Home by 
ON BOARD CONTROL	B0736 	<p>LCD wall clock thermostat remote control kit. Programmable wall LCD thermostat control for MODBUS connection, RS485. Ability to control up to 30 units. Desired temperature selection, operation mode, fan speed, manual/programmable thermostat. Room sensor inserted in control. Backlit LCD. Presence contact input. The control is equipped with a 230/12VAC double insulation power transformer and a buffer battery. Wall installation with center to center distance compatible with standard recessed mounting box 503.</p>	
ON BOARD CONTROL	Addressing for Bticino management and SIOS Control	INDRZ <p>Mandatory default addressing of remote kits in case of remote management via Modbus connection with SIOS Control, Bticino MYHome and any other system that communicates in Modbus.</p>	-

Accessories control AR

	CODE	DESCRIPTION	COMBINATIONS
ON BOARD CONTROL	INSTALLED AS STANDARD 	<p>The AR (Analogic Remote) command allows remote control by interfacing with wall controls or home automation control systems via 0-10V analog input or contacts (for fan coil radiators use the contact mode). It has a 230Vac output for control of a solenoid valve and a water probe inlet with the function of a minimum probe (only for use with contacts). For the sizes 1400 and 1600: minimum water probe even in 0-10V use, wide voltage range for managing of the static operation of the fan coil radiators even in 0-10V use.</p>	

	CODE	DESCRIPTION
HYDRAULIC KITS	 B0832	2-way valves unit kit with 4-wire thermoelectric actuator and end run micro switch. Consists of a valve with thermoelectric actuator and holder, the first allows for the control of terminal thermal emissions intercepting water passage; the holder allows the balancing of system load losses. This kit is mandatory in version SLR except in the case of using a 3-way valve kit or in the presence of a collector with thermoelectric heads.
	 B0834	3-way valves unit kit with 4-wire thermoelectric actuator and end run micro switch. Consists of a three-way diverter valve with thermoelectric actuator, and a holder. The first allows the control of terminal thermal emissions intercepting water passage; the holder allows the balancing of system load losses; the by-pass keeps water circulating in the system. This kit is an alternative to the 2-way solenoid valve kit (required in version SLR).
	 B0205	Manual 2-way group valves kit. Consisting of a valve and a holder, the first allows the cabinet to be manually excluded from the system, while the holder allows the balancing of system load losses. Also allowed when solenoid valves on the collector are managed by the control kit of terminal Bi2.
	 B0204	Manual 2-way valve isolation kit. Avoids condensation during the cooling operation (already included in the other thermoelectric hydraulic kits).
	 B0200 B0201	Kit pair adapters. Allows you to transform the Bi2 3/4" Eurocone connection into a standard 1/2" (B0200) or 3/4" (B0201) gas thread connection.
	 B0203	Kit 90° Eurokonus bend Facilitates the connection in case of hydraulic connections with walled pipes.
ELECTRICAL KITS	 B0839	Extension cord control panel kit Power and motor sensor electric connection cable for installations where connection positions are rotated (from Left to Right).
AESTHETICAL KITS	 B0853 (200) B0853 (400) B0853 (600) B0853 (800) B0853 (1000) B0874 (1400) NEW B0874 (1600) NEW	Feet kit for Bi2 Air Ultraslim and Bi2 Air Slim. Kit of two aesthetic feet for coverage of any floor pipes. Available in white.
	 B0852 (200) B0852 (400) B0852 (600) B0852 (800) B0852 (1000)	Floor fixing brackets kit for Bi2 Air Ultraslim Kit support brackets and mounting the floor of the terminal (applications front windows or on non-bearing walls). It also has the function of aesthetic kit (color off white).
	 B0875 (1400) NEW B0875 (1600) NEW	Floor fixing bracket kit Bi2 Air Slim. Terminal support and floor fixing bracket kit (front glass applications or on non-bearing walls). To be used in combination with kit B0874. It increases the fan coils thickness of 17 mm (18 mm if with back panel).
	 B0847 (200) B0848 (400) B0849 (600) B0850 (800) B0851 (1000) B0876 (1400) NEW B0877 (1600) NEW	Back panel in painted sheet (for front glass applications).

Bi2 AIR



SL Air inverter - ultraslim



Compatible with:



INTEGRAL DESIGN

Front and side panels are joined for easy installation and maintenance.



MULTISET CONTROL

Integrated electronics allows touch operation, remote control and home automation connection.

FEATURES

- Heats, Cools, Dehumidifies and Filters.
- Integral aesthetics with intake from the lower side.
- Front in metal, sides in ABS.
- Compact: Min thickness 12,9 cm max 15 cm.
- Range consisting of 5 power modules.
- DC brushless motor.
- Monobloc body for work in comfort.
- Motorised steel air delivery flap.
- Anti-intrusion grilles on the air intake and outlet.
- Removable filters placed on the air intake.
- Remote control supplied (only for TR control).
- Available in the colours: White RAL 9003
- Floor, wall or (only for the SL versions) ceiling.**



MULTISET CONTROL

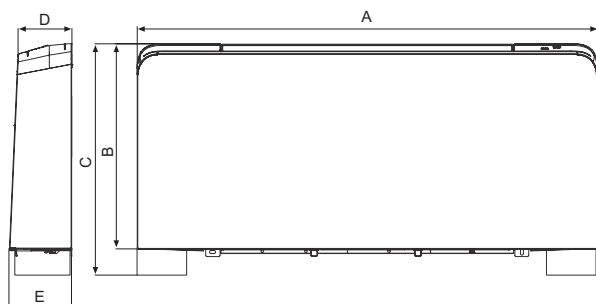
TR COMMAND (Touch Remote):

Touch control on the machine and remote control supplied.

By means of a selection of buttons on the machine it is possible to remotise * with remote control on the wall (chronothermostat cod. B0736, optional) or with home automation, through the Modbus RS485 signal protocol

AR (Analogic Remote) COMMAND:

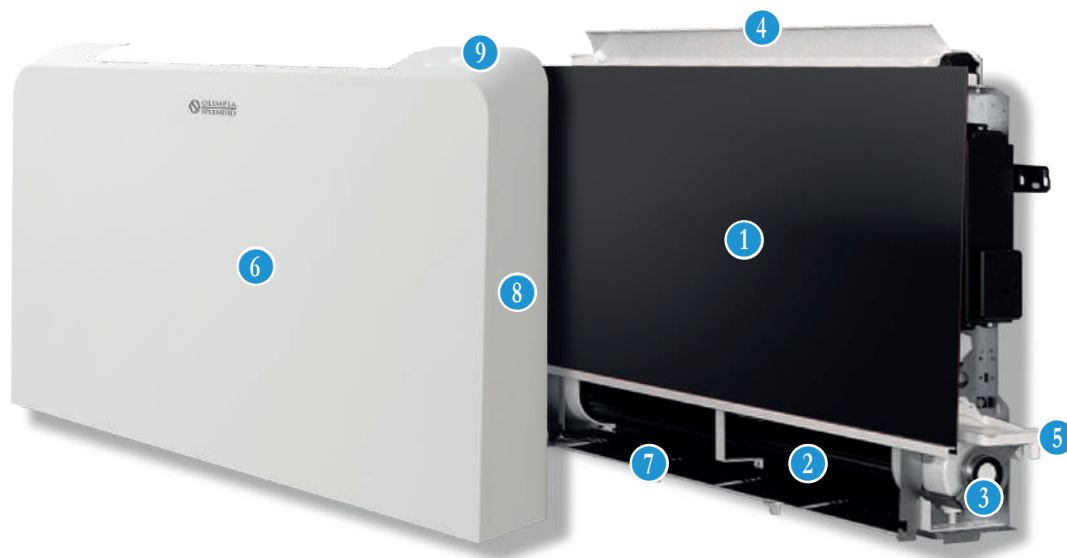
Analog control for universal remote control with wall controls or home automation systems, through the 0-10V signal or 4-speed digital.



		200	400	600	800	1000
A	mm	695	895	1095	1295	1495
B	mm	599	599	599	599	599
C	mm	679	679	679	679	679
D	mm	129	129	129	129	129
E	mm	150	150	150	150	150
Net weight	kg	11,5	13,0	15,5	18,5	21,5

* Excluding the combination with SIOS Control, in all other cases: Touch control on the machine, air probe on the machine and remote control disabled

**Ceiling installation: ceiling installation kit and feet kit required



- 1 Heat exchange battery
- 2 Tangential fan
- 3 DC Brushless electric motor
- 4 Discharge air flap and anti-intrusion delivery grille
- 5 Condensate collection tray
- 6 Front body in electro-galvanised sheet
- 7 Anti-intrusion intake grille
- 8 ABS sides
- 9 Touch control on the machine (TR version)

MODEL		SL Air inverter - ultraslim															
		200			400			600			800			1000			
SL Air inverter (with command TR)		cod.	01851			01852			01853			01854			01855		
SL Air inverter (with command AR)		cod.	01767			01768			01769			01770			01771		
Fan speed			Lower	Middle	High	Lower	Middle	High	Lower	Middle	High	Lower	Middle	High	Lower	Middle	High
Total power output in cooling mode		a27/19 - w7/12 (a) (E)	kW			0.38	0.71	0.82	0.91	1.34	1.74	1.50	2.10	2.54	1.98	2.69	3.29
Sensitive power output in cooling mode		a27/19 - w7/12 (a) (E)	kW			0.26	0.50	0.64	0.65	1.02	1.25	1.10	1.56	1.94	1.54	2.09	2.54
Fluid flow rate		a27/19 - w7/12 (a)	l/h			66.2	123.3	142.9	157.6	232.0	302.5	259.2	363.1	440.3	341.9	464.7	570.0
Water side head loss		a27/19 - w7/12 (a) (E)	kPa			3.8	10.6	13.1	2.4	5.5	8.2	7.5	14.2	19	7.3	13.8	18.7
Total power output in heating mode		a20/15 - w50/- (b) (E)	kW			0.64	0.84	1.05	1.25	1.65	2.31	1.75	2.56	3.12	2.21	3.10	4.10
Fluid flow rate		a20/15 - w50/- (b)	l/h			66.2	123.3	142.9	157.6	232.0	302.5	259.2	363.1	440.3	341.9	464.7	570.0
Water side head loss		a20/15 - w50/- (b) (E)	kPa			3.2	8.8	10.9	2.0	4.6	6.8	6.2	11.8	15.8	6.1	11.5	15.5
Total power output in heating mode		a20/15 - w45/40 (c) (E)	kW			0.54	0.70	0.88	1.06	1.39	1.94	1.46	2.14	2.60	1.85	2.60	3.44
Fluid flow rate		a20/15 - w45/40 (c)	l/h			91.9	119.9	150.0	181.9	238.1	330.3	250.6	365.7	444.6	316.6	444.8	587.9
Water side head loss		a20/15 - w45/40 (c) (E)	kPa			5.7	8.8	12.2	2.9	4.8	7.9	5.8	11.8	16.0	4.1	8.9	14.2
Absorbed power		(E)	W			5	7	11	6	9	19	7	11	20	8	12	24
Sound Power Lw(A)		(E)	dB(A)			38	45	52	39	46	53	41	47	53	42	48	54
Sound pressure Lp (A)		(d)	dB(A)			29	36	43	30	37	44	32	38	44	33	39	45
Air flow		(f)	m3/h			100	130	160	190	250	320	280	360	460	350	450	575
Battery water content			l			0.47			0.8			1.13			1.46		
Maximum operating pressure			bar			10			10			10			10		
Hydraulic fittings			inches			Eurocone 3/4			Eurocone 3/4			Eurocone 3/4			Eurocone 3/4		
Electrical power supply			V/ph/Hz			230/1/50			230/1/50			230/1/50			230/1/50		
Max static heating efficiency (50°C)			kW			-			-			-			-		
Max static heating efficiency (70°C)			kW			-			-			-			-		
Water content of the radiant panel			l			-			-			-			-		

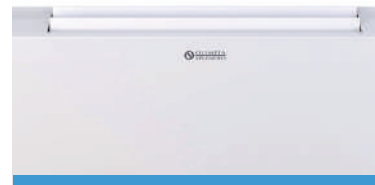
The above services refer to the following operating conditions:

- (a) Cooling mode at standard conditions: air temperature 27°C b.s., 19°C b.u., water inlet temperature 7°C, water outlet temperature 12°C
- (b) Heating mode conditions of use 1: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 50°C, water flow equal to the cooling water standard condition
- (c) Heating mode standard conditions: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 45°C, water outlet temperature 40°C
- (d) Sound pressure level valid for closed rooms with a volume of 100 m3 with a reverberation time of 0.5 s and installation on the floor/ceiling, sound emission on 1/4 sphere at 3 m distance
- (E) Eurovent certified data
- (f) Air flow rate measured with clean filters

NEW

Bi2 AIR

SL Air inverter - slim



Compatible with:



PRO-POWER

Up to 4.85 kW of power, for larger spaces and colder climates.



INTEGRAL DESIGN

Front and side panels are joined for easy installation and maintenance.



MULTISET CONTROL

Integrated electronics allows touch operation, remote control and home automation connection.

FEATURES

- Heats, Cools, Dehumidifies and Filters.
- Integral aesthetics with intake from the lower side.
- Front in metal, sides in ABS.
- Compact: Min thickness 17,9 cm max 20 cm.
- Range consisting of 2 power modules.
- DC brushless motor.
- Monobloc body for work in comfort.
- Double motorised steel air delivery flap.
- Anti-intrusion grilles on the air intake and outlet.
- Removable filters placed on the air intake.
- Remote control supplied (only for TR control).
- Available in the colours: White RAL 9003
- Floor, wall or ceiling installation.**



MULTISET CONTROL

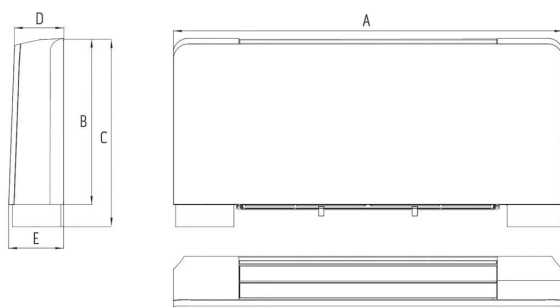
TR COMMAND (Touch Remote):

Touch control on the machine and remote control supplied.

By means of a selection of buttons on the machine it is possible to remotise * with remote control on the wall (chronothermostat cod. B0736, optional) or with home automation, through the Modbus RS485 signal protocol

AR (Analogic Remote) COMMAND:

Analog control for universal remote control with wall controls or home automation systems, through the 0-10V signal or 4-speed digital.



		1400	1600
A	mm	1345	1415
B	mm	599	599
C	mm	719	719
D	mm	179	179
E	mm	200	200
Net weight	kg	22,5	24

* Excluding the combination with SIOS Control, in all other cases: Touch control on the machine, air probe on the machine and remote control disabled

**Ceiling installation: ceiling installation kit and feet kit required



- 1 Heat exchange battery
- 2 Tangential fan
- 3 DC Brushless electric motor
- 4 Discharge air flap and anti-intrusion delivery grille
- 5 Condensate collection tray
- 6 Front body in electro-galvanised sheet
- 7 Anti-intrusion intake grille
- 8 ABS sides
- 9 Touch control on the machine (TR version)

PRELIMINARY TECHNICAL DATA

MODEL				SL Air inverter - slim					
				1400			1600		
SL Air inverter (with command TR)		cod.		02048			02050		
SL Air inverter (with command AR)		cod.		02049			02051		
Fan speed				Lower	Middle	High	Lower	Middle	High
Total power output in cooling mode		a27/19 - w7/12 (a)	kW	3.05	3.78	4.45	3.28	4.09	4.85
Sensitive power output in cooling mode		a27/19 - w7/12 (a)	kW	2.14	2.69	3.20	2.30	2.90	3.50
Fluid flow rate		a27/19 - w7/12 (a)	l/h	525.6	652.4	769.9	565.2	706	839.2
Water side head loss		a27/19 - w7/12 (a)	kPa	19	27.8	37.2	20.9	30.8	41
Total power output in heating mode		a20/15 - w50/- (b)	kW	3.61	4.53	5.50	3.85	4.87	5.90
Fluid flow rate		a20/15 - w50/- (b)	l/h	525.6	652.4	769.9	565.2	706	839.2
Water side head loss		a20/15 - w50/- (b)	kPa	16.2	23.7	31.7	19.4	28.6	35.7
Total power output in heating mode		a20/15 - w45/40 (c)	kW	3.07	3.87	4.70	3.28	4.16	5.05
Fluid flow rate		a20/15 - w45/40 (c)	l/h	527.1	663.4	803.9	563.1	713	863.6
Water side head loss		a20/15 - w45/40 (c)	kPa	17.1	25.8	35.5	20.2	30.8	38.8
Absorbed power			W	6	13	26	6	15	29
Sound Power Lw(A)			dB(A)	38	49	54	39	50	55
Sound pressure Lp (A)			dB(A)	30	41	46	31	42	47
Air flow			m ³ /h	460	610	765	490	655	820
Battery water content			l	2.33			2.5		
Maximum operating pressure			bar	10			10		
Hydraulic fittings			inches	Eurocone 3/4			Eurocone 3/4		
Electrical power supply			V/ph/Hz	230/1/50			230/1/50		
Max static heating efficiency (50°C)			kW	-			-		
Max static heating efficiency (70°C)			kW	-			-		
Water content of the radiant panel			l	-			-		

The above services refer to the following operating conditions:

(a) Cooling mode at standard conditions: air temperature 27°C b.s., 19°C b.u., water inlet temperature 7°C, water outlet temperature 12°C

(b) Heating mode conditions of use 1: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 50°C, water flow equal to the cooling water standard condition

(c) Heating mode standard conditions: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 45°C, water outlet temperature 40°C

(d) Sound pressure level valid for closed rooms with a volume of 100 m³ with a reverberation time of 0.5 s and installation on the floor/ceiling, sound emission on 1/4 sphere at 3 m distance




(e) Eurovent certified data

(f) Air flow rate measured with clean filters



ACCESSORIES

SL AIR INVERTER - ULTRASLIM E SLIM

Accessories control TR

	CODE	DESCRIPTION	COMBINATIONS
ON BOARD CONTROL	INSTALLED AS STANDARD	The TR (Touch Remote) control includes a touch control on the machine and a remote control (supplied). Furthermore, through a combination of keys, it is possible to remotely command the control with a B0736 wall remote control or a home automation system (Olimpia Splendid or compatible), through the Modbus RS485 ASCII serial protocol (configurable ASCII or RTU for sizes 1400 and 1600). Furthermore, through the user interface, only for sizes 1400 and 1600, it is possible to add a correction on the room temperature read.	B0736  My Home by 
ON BOARD CONTROL	B0736	LCD wall clock thermostat remote control kit. Programmable wall LCD thermostat control for MODBUS connection, RS485. Ability to control up to 30 units. Desired temperature selection, operation mode, fan speed, manual/programmable thermostat. Room sensor inserted in control. Backlit LCD. Presence contact input. The control is equipped with a 230/12VAC double insulation power transformer and a buffer battery. Wall installation with center to center distance compatible with standard recessed mounting box 503.	
Addressing for Bticino management and SiOS Control		INDRZ	-

Accessories control AR

	CODE	DESCRIPTION	COMBINATIONS
ON BOARD CONTROL	INSTALLED AS STANDARD	The AR (Analogic Remote) command allows remote control by interfacing with wall controls or home automation control systems via 0-10V analog input or contacts (for fan coil radiators use the contact mode). It has a 230Vac output for control of a solenoid valve and a water probe inlet with the function of a minimum probe (only for use with contacts). For the sizes 1400 and 1600: minimum water probe even in 0-10V use, wide voltage range for managing of the static operation of the fan coil radiators even in 0-10V use.	B0151 B0152
REMOTE CONTROL	B0151 	Wall control kit with thermostat, summer/winter selector and speed switch. Wall thermostat with room sensor, On-Off switch, three-speed fan and summer/winter selector. Temperature range setting from 5 °C to 30 °C. 230 V supply. It has two 230VAC hot water and cold water solenoid outlets and an inlet water temperature sensor.	
REMOTE CONTROL	B0152 	Recessed control kit LCD with ambient sensor and thermostat, summer/winter selector and speed switch. Electronic recessed thermostat with ambient sensor, On-Off switch, fan speed selector (min, med, max and auto), ambient temperature, minimum water sensor mode and summer/winter selector. Temperature range setting from 5 °C to 35 °C. 230 V supply.	

	CODE	DESCRIPTION
HYDRAULIC KITS	 B0832	2-way valves unit kit with 4-wire thermoelectric actuator and end run micro switch. Consists of a valve with thermoelectric actuator and holder, the first allows for the control of terminal thermal emissions intercepting water passage; the holder allows the balancing of system load losses. This kit is mandatory in version SLR except in the case of using a 3-way valve kit or in the presence of a collector with thermoelectric heads.
	 B0834	3-way valves unit kit with 4-wire thermoelectric actuator and end run micro switch. Consists of a three-way diverter valve with thermoelectric actuator, and a holder. The first allows the control of terminal thermal emissions intercepting water passage; the holder allows the balancing of system load losses; the by-pass keeps water circulating in the system. This kit is an alternative to the 2-way solenoid valve kit (required in version SLR).
	 B0205	Manual 2-way group valves kit. Consisting of a valve and a holder, the first allows the cabinet to be manually excluded from the system, while the holder allows the balancing of system load losses. Also allowed when solenoid valves on the collector are managed by the control kit of terminal Bi2.
	 B0204	Manual 2-way valve isolation kit. Avoids condensation during the cooling operation (already included in the other thermoelectric hydraulic kits).
	 B0200 B0201	Kit pair adapters. Allows you to transform the Bi2 3/4" Eurocone connection into a standard 1/2" (B0200) or 3/4" (B0201) gas thread connection.
	 B0203	Kit 90° Eurokonus bend Facilitates the connection in case of hydraulic connections with walled pipes.
ELECTRICAL KITS	 B0839	Extension cord control panel kit Power and motor sensor electric connection cable for installations where connection positions are rotated (from Left to Right).
AESTHETICAL KITS	 B0853 (200) B0853 (400) B0853 (600) B0853 (800) B0853 (1000) B0874 (1400) B0874 (1600)	Feet kit for Bi2 Air Ultraslim and Bi2 Air Slim. Kit of two aesthetic feet for coverage of any floor pipes. Available in white. NEW NEW
	 B0852 (200) B0852 (400) B0852 (600) B0852 (800) B0852 (1000)	Floor fixing brackets kit for Bi2 Air Ultraslim Kit support brackets and mounting the floor of the terminal (applications front windows or on non-bearing walls). It also has the function of aesthetic kit (color off white).
	 B0875 (1400) B0875 (1600)	Floor fixing bracket kit Bi2 Air Slim. Terminal support and floor fixing bracket kit (front glass applications or on non-bearing walls). To be used in combination with kit B0874. It increases the fan coils thickness of 17 mm (18 mm if with back panel). NEW NEW
	 B0847 (200) B0848 (400) B0849 (600) B0850 (800) B0851 (1000) B0876 (1400) B0877 (1600)	Back panel in painted sheet (for front glass applications). NEW NEW
	 B0520 (200) B0521 (400) B0522 (600) B0523 (800) B0524 (1000) B0878 (1400) B0879 (1600)	Bi2 ceiling installation kit (excluding SLR versions) NEW NEW

Bi2 WALL



SLW inverter



Compatible with:



REVERSIBILITY

By rotating the display, Bi2 Wall can be installed as a split unit or a console machine.



FAMILY FEELING

Similar design as the Bi2 Air terminal to allow aesthetically coordinated installations in the same environment.



2- OR 3-WAY VALVE INCLUDED

The terminal is equipped with an integrated 2 or 3-way valve for easy installation.

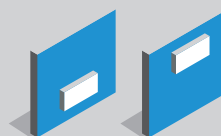


MULTISET CONTROL

Integrated electronics allows touch operation, remote control and home automation connection.

FEATURES

- Cools, Dehumidifies, Heats and Filters
- 3 sizes available
- Touch controls on the machine (TR control)
- DC brushless Motor
- Fitted with large motorized flap
- Total flat aesthetic
- Adjustable environment thermostat
- Functioning mode selection (cooling, heating, ventilation only, automatic, dehumidification)
- Ventilation program selection (min, med, max)
- Timer
- Remote control unit supplied (for TR control only)
- Strong metal body
- Available in colors: White RAL 9010
- Installation: console, high-wall



MULTISET CONTROL

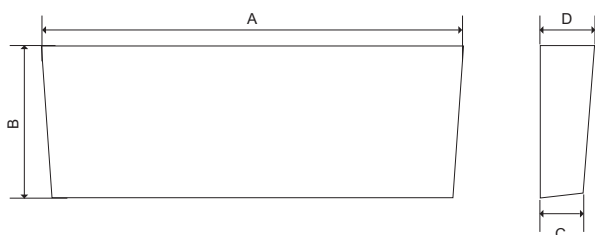
TR COMMAND (Touch Remote):

Touch control on the machine and remote control supplied.

By means of a selection of buttons on the machine it is possible to remotise * with remote control on the wall (chronothermostat cod. B0736, optional) or with home automation, through the Modbus RS485 signal protocol

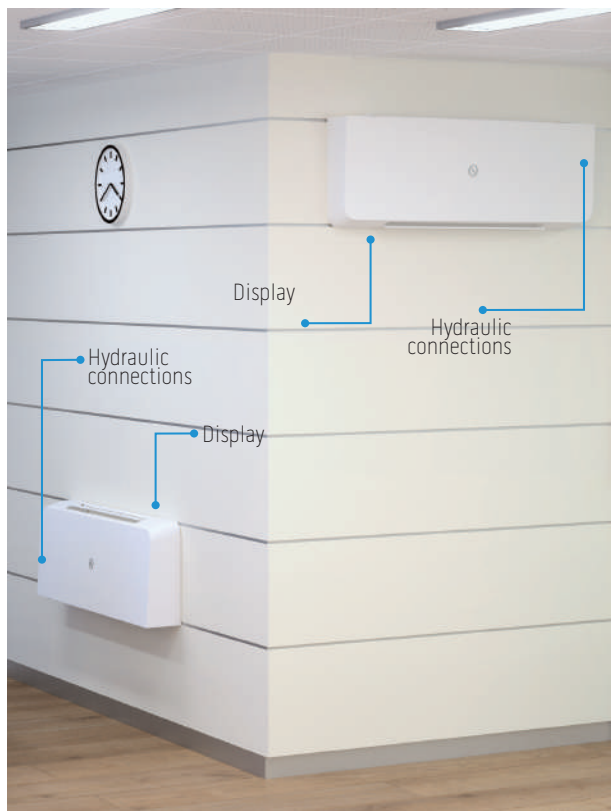
AR (Analogic Remote) COMMAND:

Analog control for universal remote control with wall controls or home automation systems, through the 0-10V signal or 4-speed digital.



		400	600	800
A	mm	906	1106	1306
B	mm	380	380	380
C	mm	129	129	129
D	mm	150	150	150
Net weight	kg	13	14,5	16

* With the exception of the combination with SIOS Control, in all other cases: Touch control on the machine, air probe on the machine and remote control disabled



Bi2 Wall is the first hydronic terminal that can be installed as a high wall "split" (High Wall configuration) or as a low wall console machine (Console configuration). Depending on the installation configuration, with a combination of keys on the control on the machine, the display digits are rotated.

In the High Wall configuration the water connections are positioned on the right and the display is positioned on the left.
In the Console configuration the water connections are positioned on the left and the display is positioned on the right.

Equipped with a large motorised flap



MODEL					SLW inverter									
					400			600			800			
SLW inverter (with 2-way valve and TR command)					cod.	01784			01785			01786		
SLW inverter (with 2-way valve and AR command)					cod.	01875			01876			01877		
SLW inverter (with 3-way valve and TR command)					cod.	01787			01788			01789		
SLW inverter (with 3-way valve and AR command)					cod.	01878			01879			01880		
Fan speed						Lower	Middle	High	Lower	Middle	High	Lower	Middle	High
Total power output in cooling mode		a27/19 - w7/12	(a)	(E)	kW	0.52	0.71	1.01	0.69	0.89	1.23	0.77	1.09	1.82
Sensitive power output in cooling mode		a27/19 - w7/12	(a)	(E)	kW	0.42	0.59	0.91	0.58	0.80	1.15	0.65	0.95	1.47
Fluid flow rate		a27/19 - w7/12	(a)		l/h	90.6	124.0	177.0	120.1	155.1	215.5	134.0	189.7	317.7
Water side head loss		a27/19 - w7/12	(a)	(E)	kPa	2.8	5.2	8.9	4.9	6	7.9	2.1	4.8	11
Total power output in heating mode		a20/15 - w50/-	(b)	(E)	kW	0.67	0.99	1.55	0.98	1.37	2.16	1.14	1.68	2.85
Fluid flow rate		a20/15 - w50/-	(b)		l/h	90.6	124.0	177.0	120.1	155.1	215.5	134.0	189.7	317.7
Water side head loss		a20/15 - w50/-	(b)	(E)	kPa	2.4	4.5	7.1	1.9	2.9	2.5	2.0	4.6	8.8
Total power output in heating mode		a20/15 - w45/40	(c)	(E)	kW	0.58	0.86	1.40	0.86	1.20	1.90	0.99	1.45	2.50
Fluid flow rate		a20/15 - w45/40	(c)		l/h	99.1	146.3	237.5	146.5	204.6	322.8	168.1	247.8	425.4
Water side head loss		a20/15 - w45/40	(c)	(E)	kPa	3.4	6.7	11.6	6.7	11.9	5.4	8.5	16.4	15.3
Absorbed power				(E)	W	7	11	19	8	12	23	9	13	27
Sound Power Lw(A)				(E)	dB(A)	43	49	57	43	50	58	43	50	58
Sound pressure Lp (A)			(d)		dB(A)	34	40	48	34	41	49	34	41	49
Air flow			(f)		m ³ /h	140	190	290	190	260	400	200	280	430
Battery water content					l		0.3			0.4			0.5	
Maximum operating pressure					bar		8			8			8	
Hydraulic fittings					inches	Eurocone 3/4			Eurocone 3/4			Eurocone 3/4		
Electrical power supply					V/ph/Hz	230/1/50			230/1/50			230/1/50		
Max static heating efficiency (50°C)					kW	-			-			-		
Max static heating efficiency (70°C)					kW	-			-			-		
Water content of the radiant panel					l	-			-			-		

The above services refer to the following operating conditions:

(a) Cooling mode at standard conditions: air temperature 27°C b.s., 19°C b.u., water inlet temperature 7°C, water outlet temperature 12°C

(b) Heating mode conditions of use 1: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 50°C, water flow equal to the cooling water standard condition

(c) Heating mode standard conditions: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 45°C, water outlet temperature 40°C






(d) Sound pressure level valid for closed rooms with a volume of 100 m³ with a reverberation time of 0.5 s and installation on the floor/ceiling, sound emission on 1/4 sphere at 3 m distance

(E) Eurovent certified data




(f) Air flow rate measured with clean filters

ACCESSORIES
SLW INVERTER

Accessories control TR

	CODE	DESCRIPTION	COMBINATIONS
ON BOARD CONTROL	<p>INSTALLED AS STANDARD</p> 	<p>The TR (Touch Remote) control includes a touch control on the machine and a remote control (supplied). Furthermore, by means of a combination of keys, it is possible to remotely command the control with a B0736 wall-mounted remote control or home automation (Olimpia Splendid or compatible), through the Modbus RS485 ASCII signal protocol.</p>	<p>B0736</p>  <p>My Home by</p> 
ON BOARD CONTROL	<p>B0736</p> 	<p>LCD wall clock thermostat remote control kit. Programmable wall LCD thermostat control for MODBUS connection, RS485. Ability to control up to 30 units. Desired temperature selection, operation mode, fan speed, manual/programmable thermostat. Room sensor inserted in control. Backlit LCD. Presence contact input. The control is equipped with a 230/12VAC double insulation power transformer and a buffer battery. Wall installation with center to center distance compatible with standard recessed mounting box 503.</p>	
	<p>Addressing for Bticino management and SiOS Control</p>	<p>INDRZ</p> <p>Mandatory default addressing of remote kits in case of remote management via Modbus connection with SiOS Control, Bticino MYHome and any other system that communicates in Modbus.</p>	-

Accessories control AR

	CODE	DESCRIPTION	COMBINATIONS
ON BOARD CONTROL	 <p>INSTALLED AS STANDARD</p>	The AR (Analogic Remote) command allows remote control by interfacing with wall controls or home automation control systems through 0-10V analog input or contacts. It has a 230Vac output for control of a solenoid valve and a water probe inlet with the function of a minimum probe (only for use with contacts).	B0151 B0152
REMOTE CONTROL	 <p>B0151 PHASE OUT</p>	Wall control kit with thermostat, summer/winter selector and speed switch. Wall thermostat with room sensor, On-Off switch, three-speed fan and summer/winter selector. Temperature range setting from 5 °C to 30 °C. 230 V supply. It has two 230VAC hot water and cold water solenoid outlets and an inlet water temperature sensor.	
	 <p>B0152 PHASE OUT</p>	Recessed control kit LCD with ambient sensor and thermostat, summer/winter selector and speed switch. Electronic recessed thermostat with ambient sensor, On-Off switch, fan speed selector (min, med, max and auto), ambient temperature, minimum water sensor mode and summer/winter selector. Temperature range setting from 5 °C to 35 °C. 230 V supply.	

Bi2 SMART

SLR smart inverter - ultraslim

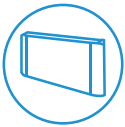


Compatible with:



RADIANT TECHNOLOGY

Terminal with tubular heating panel for maximum acoustic and climate comfort.

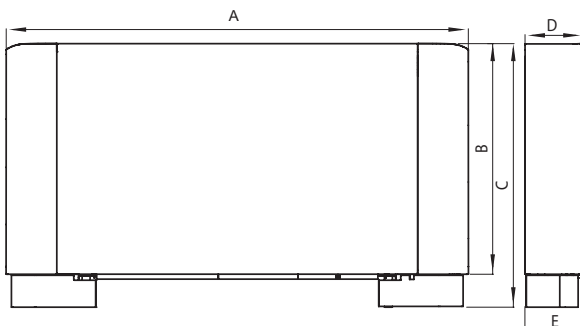


TOTAL FLAT DESIGN

Linear aesthetics (with bottom suction system) for maximum integration with the surrounding architecture.

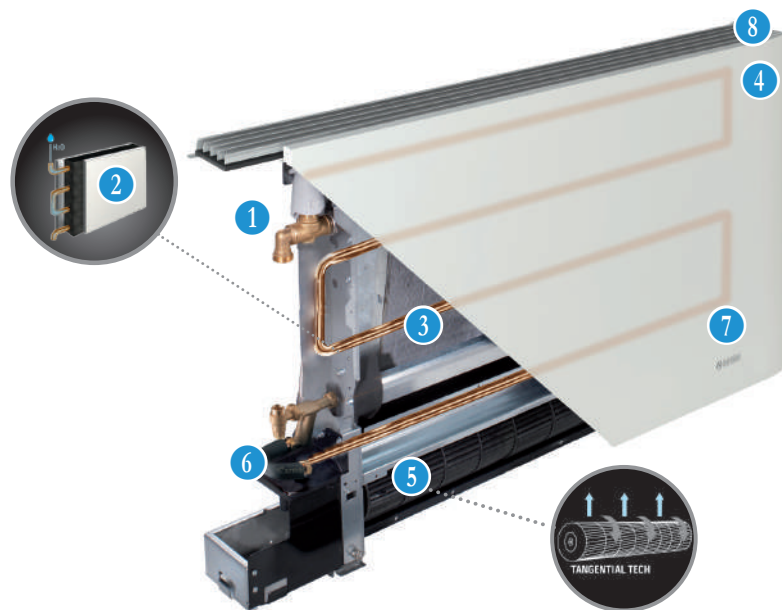
FEATURES

- Air Conditioning, Dehumidifying, Heating and Filtering
- Terminal with integrated heating panel
- Compact: Min thickness 12.9 cm - max 15 cm
- Range consisting of 5 power models
- Brushless DC motor
- Metal front, Smart ABS sides
- Total Flat aesthetics with intake system from the lower side
- Available in the colours: White RAL 9010
- Installation: floor, wall



		200	400	600	800	1000
A	mm	759	959	1159	1359	1559
B	mm	579	579	579	579	579
C	mm	659	659	659	659	659
D	mm	129	129	129	129	129
E	mm	150	150	150	150	150
Net weight	kg	13,5	15,5	19,5	22,5	25,5

- 1 Valve with thermoelectric actuator (accessory kit)
- 2 Tubular heating panel
- 3 High efficiency battery
- 4 Water temperature probe
- 5 High efficiency tangential fan
- 6 Condensate collection tray
- 7 Brushless DC inverter motor
- 8 Electronic control (accessory kit)



MODEL		SLR smart inverter - ultraslim																	
		200			400			600			800			1000					
SLR Smart Inverter		cod.	01629			01630			01631			01632			01633				
Fan speed			Lower	Middle	High	Lower	Middle	High	Lower	Middle	High	Lower	Middle	High	Lower	Middle	High		
Total power output in cooling mode		a27/19 - w7/12 (a)	(E)	kW	0.38	0.71	0.82	0.91	1.34	1.74	1.50	2.10	2.54	1.98	2.69	3.29	2.17	3.25	3.78
Sensitive power output in cooling mode		a27/19 - w7/12 (a)	(E)	kW	0.26	0.50	0.64	0.65	1.02	1.25	1.10	1.56	1.94	1.54	2.09	2.54	1.71	2.42	2.98
Fluid flow rate		a27/19 - w7/12 (a)		l/h	66.2	123.3	142.9	157.6	232.0	302.5	259.2	363.1	440.3	341.9	464.7	570.0	374.8	561.4	654.8
Water side head loss		a27/19 - w7/12 (a)	(E)	kPa	3.8	10.6	13.1	2.4	5.5	8.2	7.5	14.2	19	7.3	13.8	18.7	5.7	13.1	18.2
Total power output in heating mode		a20/15 - w50/- (b)	(E)	kW	0.64	0.84	1.05	1.25	1.65	2.31	1.75	2.56	3.12	2.21	3.10	4.10	3.05	3.77	4.67
Fluid flow rate		a20/15 - w50/- (b)		l/h	66.2	123.3	142.9	157.6	232.0	302.5	259.2	363.1	440.3	341.9	464.7	570.0	374.8	561.4	654.8
Water side head loss		a20/15 - w50/- (b)	(E)	kPa	3.2	8.8	10.9	2.0	4.6	6.8	6.2	11.8	15.8	6.1	11.5	15.5	4.7	10.9	15.1
Total power output in heating mode		a20/15 - w45/40 (c)	(E)	kW	0.54	0.70	0.88	1.06	1.39	1.94	1.46	2.14	2.60	1.85	2.60	3.44	2.56	3.16	3.91
Fluid flow rate		a20/15 - w45/40 (c)		l/h	91.9	119.9	150.0	181.9	238.1	330.3	250.6	365.7	444.6	316.6	444.8	587.9	438.1	541.0	668.5
Water side head loss		a20/15 - w45/40 (c)	(E)	kPa	5.7	8.8	12.2	2.9	4.8	7.9	5.8	11.8	16.0	4.1	8.9	14.2	6.4	9.8	13.9
Absorbed power			(E)	W	5	7	11	6	9	19	7	11	20	8	12	24	9	14	27
Sound Power Lw(A)			(E)	dB(A)	38	45	52	39	46	53	41	47	53	42	48	54	42	48	54
Sound pressure Lp (A)			(d)	dB(A)	29	36	43	30	37	44	32	38	44	33	39	45	33	39	45
Air flow			(f)	m3/h	100	130	160	190	250	320	280	360	460	350	450	575	400	510	650
Battery water content				l	0.47			0.8			1.13			1.46			1.8		
Maximum operating pressure				bar	10			10			10			10			10		
Hydraulic fittings				inches	Eurocone 3/4			Eurocone 3/4			Eurocone 3/4			Eurocone 3/4			Eurocone 3/4		
Electrical power supply				V/ph/Hz	230/1/50			230/1/50			230/1/50			230/1/50			230/1/50		
Max static heating efficiency (50°C)				kW	0.37			0.42			0.5			0.62			0.77		
Max static heating efficiency (70°C)				kW	0.59			0.71			0.84			1.04			1.28		
Water content of the radiant panel				l	0.19			0.27			0.35			0.43			0.5		











The above services refer to the following operating conditions:

- (a) Cooling mode at standard conditions: air temperature 27°C b.s., 19°C b.u., water inlet temperature 7°C, water outlet temperature 12°C
- (b) Heating mode conditions of use 1: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 50°C, water flow equal to the cooling water standard condition
- (c) Heating mode standard conditions: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 45°C, water outlet temperature 40°C
- (d) Sound pressure level valid for closed rooms with a volume of 100 m3 with a reverberation time of 0.5 s and installation on the floor/ceiling, sound emission on 1/4 sphere at 3 m distance
- (E) Eurovent certified data
- (f) Air flow rate measured with clean filters

ACCESSORIES

SLR SMART INVERTER - ULTRASLIM

	CODE	DESCRIPTION	COMBINATIONS
ON BOARD CONTROL	 B0673	Built-in electronic autonomous control kit. Control with adjustable thermostat, fan mode selection (summer, winter, automatic) and ventilation program (minimum, maximum, night, modulated) and minimum water sensor function. It has an inlet for the presence sensor connection, and two 230VAC outlets for the control of 2 solenoid valves.	
	 B0828	Touch flat design built-in control kit. Back-lit display with desired temperature visualization, real-touch switches, mode of operation and fan speed selection. Control with adjustable thermostat, fan speed selection (summer, winter, automatic) and ventilation program (minimum, maximum, night, modulated) and minimum water sensor function. It has an inlet for the presence sensor contact connection, a 230VAC outlet for the solenoid valve control. Remote control provided. Can be remote controlled via a combination of keys for connection with Modbus RS485 protocol. Command pre-configured on the machine (cannot be ordered separately).	B0736  My Home by 
REMOTE CONTROL	 B0756	Control kit for remotization for the management and control through analogic inlet 0-10V or contacts. It has a 230VAC outlet for the control of one solenoid valve and a water sensor inlet with minimum temperature sensor function (in the contact mode).	
	 B0736	LCD wall clock thermostat remote control kit. Programmable wall LCD thermostat control for MODBUS connection, RS485. Ability to control up to 30 units. Desired temperature selection, operation mode, fan speed, manual/programmable thermostat. Room sensor inserted in control. Backlit LCD. Presence contact input. The control is equipped with a 230/12VAC double insulation power transformer with a 230/12VAC double insulation power transformer and a buffer battery. Wall installation with center to center distance compatible with standard recessed mounting box 503.	B0828 
Addressing for Bticino management and SiOS Control		INDRZ	Mandatory default addressing of remote kits in case of remote management via Modbus connection with SiOS Control, Bticino MYHome and any other system that communicates in Modbus.

	CODE	DESCRIPTION
HYDRAULIC KITS	 B0832	2-way valves unit kit with 4-wire thermoelectric actuator and end run micro switch. Consists of a valve with thermoelectric actuator and holder, the first allows for the control of terminal thermal emissions intercepting water passage; the holder allows the balancing of system load losses. This kit is mandatory in version SLR except in the case of using a 3-way valve kit or in the presence of a collector with thermoelectric heads.
	 B0834	3-way valves unit kit with 4-wire thermoelectric actuator and end run micro switch. Consists of a three-way diverter valve with thermoelectric actuator, and a holder. The first allows the control of terminal thermal emissions intercepting water passage; the holder allows the balancing of system load losses; the by-pass keeps water circulating in the system. This kit is an alternative to the 2-way solenoid valve kit (required in version SLR).
	 B0205	Manual 2-way group valves kit. Consisting of a valve and a holder, the first allows the cabinet to be manually excluded from the system, while the holder allows the balancing of system load losses. Also allowed when solenoid valves on the collector are managed by the control kit of terminal Bi2.
	 B0204	Manual 2-way valve isolation kit. Avoids condensation during the cooling operation (already included in the other thermoelectric hydraulic kits).
	 B0200 B0201	Kit pair adapters. Allows you to transform the Bi2 3/4" Eurocone connection into a standard 1/2" (B0200) or 3/4" (B0201) gas thread connection.
	 B0203	Kit 90° Eurokonus bend Facilitates the connection in case of hydraulic connections with walled pipes.
ELECTRICAL KITS	 B0632 (200) B0632 (400) B0632 (600) B0633 (800) B0633 (1000)	Extension cord control panel kit Power and motor sensor electric connection cable for installations where connection positions are rotated (from Left to Right).
AESTHETICAL KITS	 B0682	Feet kit for Bi2 smart Kit of two aesthetic feet for coverage of any floor pipes. Available in white.
	 B0683	Floor fixing brackets kit for Bi2 Smart Kit support brackets and mounting the floor of the terminal (applications front windows or on non-bearing walls). It also has the function of aesthetic kit (color off white).
	 B0677 (200) B0678 (400) B0679 (600) B0680 (800) B0681 (1000)	Back panel in painted sheet (for front glass applications).

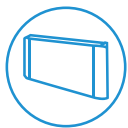
Bi2 SMART

SL smart inverter - ultraslim



Compatible with:

SiOS
CONTROL

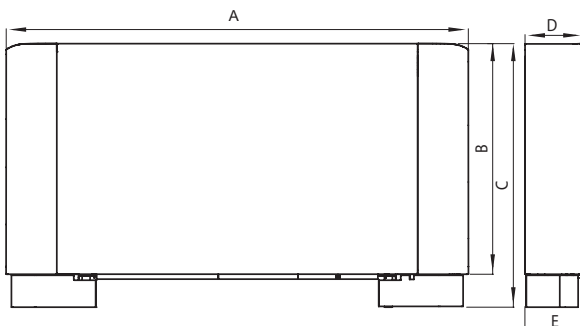


TOTAL FLAT DESIGN

Linear aesthetics (with bottom suction system) for maximum integration with the surrounding architecture.

FEATURES

- Air Conditioning, Dehumidifying, Heating and Filtering
- Compact: Min thickness 12,9 cm - max 15 cm
- Range consisting of 5 power models
- Brushless DC motor
- Metal front, Smart ABS sides
- Total Flat aesthetics with intake system from the lower side
- Available in the colours: White RAL 9010
- Floor, wall or (only for the SL versions) ceiling installation.*



*Ceiling installation: ceiling mounting kit and feet kit are necessary

		200	400	600	800	1000
A	mm	759	959	1159	1359	1559
B	mm	579	579	579	579	579
C	mm	659	659	659	659	659
D	mm	129	129	129	129	129
E	mm	150	150	150	150	150
Net weight	kg	11,5	13	15,5	18,5	21,5

- 1 Valve with thermoelectric actuator (accessory kit)
- 2 High efficiency battery
- 3 Water temperature probe
- 4 High efficiency tangential fan
- 5 Condensate collection tray
- 6 DC Brushless inverter motor
- 7 Electronic control (accessory kit)



MODEL				SL smart inverter - ultraslim																										
				200			400			600			800			1000														
SL Smart inverter				cod.			01634			01635			01636			01637			01638											
Fan speed				Lower			Middle			High			Lower			Middle			High			Lower			Middle			High		
Total power output in cooling mode				a27/19 - w7/12	(a)	(E)	kW	0.38	0.71	0.82	0.91	1.34	1.74	1.50	2.10	2.54	1.98	2.69	3.29	2.17	3.25	3.78								
Sensitive power output in cooling mode				a27/19 - w7/12	(a)	(E)	kW	0.26	0.50	0.64	0.65	1.02	1.25	1.10	1.56	1.94	1.54	2.09	2.54	1.71	2.42	2.98								
Fluid flow rate				a27/19 - w7/12	(a)		l/h	66.2	123.3	142.9	157.6	232.0	302.5	259.2	363.1	440.3	341.9	464.7	570.0	374.8	561.4	654.8								
Water side head loss				a27/19 - w7/12	(a)	(E)	kPa	3.8	10.6	13.1	2.4	5.5	8.2	7.5	14.2	19	7.3	13.8	18.7	5.7	13.1	18.2								
Total power output in heating mode				a20/15 - w50/-	(b)	(E)	kW	0.64	0.84	1.05	1.25	1.65	2.31	1.75	2.56	3.12	2.21	3.10	4.10	3.05	3.77	4.67								
Fluid flow rate				a20/15 - w50/-	(b)		l/h	66.2	123.3	142.9	157.6	232.0	302.5	259.2	363.1	440.3	341.9	464.7	570.0	374.8	561.4	654.8								
Water side head loss				a20/15 - w50/-	(b)	(E)	kPa	3.2	8.8	10.9	2.0	4.6	6.8	6.2	11.8	15.8	6.1	11.5	15.5	4.7	10.9	15.1								
Total power output in heating mode				a20/15 - w45/40	(c)	(E)	kW	0.54	0.70	0.88	1.06	1.39	1.94	1.46	2.14	2.60	1.85	2.60	3.44	2.56	3.16	3.91								
Fluid flow rate				a20/15 - w45/40	(c)		l/h	91.9	119.9	150.0	181.9	238.1	330.3	250.6	365.7	444.6	316.6	444.8	587.9	438.1	541.0	668.5								
Water side head loss				a20/15 - w45/40	(c)	(E)	kPa	5.7	8.8	12.2	2.9	4.8	7.9	5.8	11.8	16.0	4.1	8.9	14.2	6.4	9.8	13.9								
Absorbed power						(E)	W	5	7	11	6	9	19	7	11	20	8	12	24	9	14	27								
Sound Power Lw(A)						(E)	dB(A)	38	45	52	39	46	53	41	47	53	42	48	54	42	48	54								
Sound pressure Lp (A)					(d)		dB(A)	29	36	43	30	37	44	32	38	44	33	39	45	33	39	45								
Air flow					(f)		m3/h	100	130	160	190	250	320	280	360	460	350	450	575	400	510	650								
Battery water content							l	0.47			0.8			1.13			1.46			1.8										
Maximum operating pressure							bar	10			10			10			10			10										
Hydraulic fittings							inches	Eurocone 3/4			Eurocone 3/4			Eurocone 3/4			Eurocone 3/4			Eurocone 3/4										
Electrical power supply							V/ph/Hz	230/1/50			230/1/50			230/1/50			230/1/50			230/1/50										
Max static heating efficiency (50°C)							kW	-			-			-			-			-										
Max static heating efficiency (70°C)							kW	-			-			-			-			-										
Water content of the radiant panel							l	-			-			-			-			-										

The above services refer to the following operating conditions:

(a) Cooling mode at standard conditions: air temperature 27°C b.s., 19°C b.u., water inlet temperature 7°C, water outlet temperature 12°C

(b) Heating mode conditions of use 1: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 50°C, water flow equal to the cooling water standard condition

(c) Heating mode standard conditions: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 45°C, water outlet temperature 40°C

(d) Sound pressure level valid for closed rooms with a volume of 100 m3 with a reverberation time of 0.5 s and installation on the floor/ceiling, sound emission on 1/4 sphere at 3 m distance











(E) Eurovent certified data

(f) Air flow rate measured with clean filters

ACCESSORIES

SL SMART INVERTER - ULTRASLIM

	CODE	DESCRIPTION	COMBINATIONS
ON BOARD CONTROL	 B0673	Built-in electronic autonomous control kit. Control with adjustable thermostat, fan mode selection (summer, winter, automatic) and ventilation program (minimum, maximum, night, modulated) and minimum water sensor function. It has an inlet for the presence sensor connection, and two 230VAC outlets for the control of 2 solenoid valves.	
	 B0828	Touch flat design built-in control kit. Back-lit display with desired temperature visualization, real-touch switches, mode of operation and fan speed selection. Control with adjustable thermostat, fan speed selection (summer, winter, automatic) and ventilation program (minimum, maximum, night, modulated) and minimum water sensor function. It has an inlet for the presence sensor contact connection, a 230VAC outlet for the solenoid valve control. Remote control provided. Can be remote controlled via a combination of keys for connection with Modbus RS485 protocol. Command pre-configured on the machine (cannot be ordered separately).	B0736  My Home by 
REMOTE CONTROL	 B0756	Control kit for remotization for the management and control through analogic inlet 0-10V or contacts. It has a 230VAC outlet for the control of one solenoid valve and a water sensor inlet with minimum temperature sensor function (in the contact mode).	B0151 B0152
	 B0151 PHASE OUT	Wall control kit with thermostat, summer/winter selector and speed switch. Wall thermostat with room sensor, On-Off switch, three-speed fan and summer/winter selector. Temperature range setting from 5 °C to 30 °C. 230 V supply. It has two 230VAC hot water and cold water solenoid outlets and an inlet water temperature sensor.	B0756
	 B0152 PHASE OUT	Recessed control kit LCD with ambient sensor and thermostat, summer/winter selector and speed switch. Electronic recessed thermostat with ambient sensor, On-Off switch, fan speed selector (min, med, max and auto), ambient temperature, minimum water sensor mode and summer/winter selector. Temperature range setting from 5 °C to 35 °C. 230 V supply.	B0756
	 B0736	LCD wall clock thermostat remote control kit. Programmable wall LCD thermostat control for MODBUS connection, RS485. Ability to control up to 30 units. Desired temperature selection, operation mode, fan speed, manual/programmable thermostat. Room sensor inserted in control. Backlit LCD. Presence contact input. The control is equipped with a 230/12VAC double insulation power transformer and a buffer battery. Wall installation with center to center distance compatible with standard recessed mounting box 503.	B0828 
Addressing for Bticino management and SiOS Control	INDRZ	Mandatory default addressing of remote kits in case of remote management via Modbus connection with SiOS Control, Bticino MYHome and any other system that communicates in Modbus.	

	CODE	DESCRIPTION
HYDRAULIC KITS	 B0832	2-way valves unit kit with 4-wire thermoelectric actuator and end run micro switch. Consists of a valve with thermoelectric actuator and holder, the first allows for the control of terminal thermal emissions intercepting water passage; the holder allows the balancing of system load losses. This kit is mandatory in version SLR except in the case of using a 3-way valve kit or in the presence of a collector with thermoelectric heads.
	 B0834	3-way valves unit kit with 4-wire thermoelectric actuator and end run micro switch. Consists of a three-way diverter valve with thermoelectric actuator, and a holder. The first allows the control of terminal thermal emissions intercepting water passage; the holder allows the balancing of system load losses; the by-pass keeps water circulating in the system. This kit is an alternative to the 2-way solenoid valve kit (required in version SLR).
	 B0205	Manual 2-way group valves kit. Consisting of a valve and a holder, the first allows the cabinet to be manually excluded from the system, while the holder allows the balancing of system load losses. Also allowed when solenoid valves on the collector are managed by the control kit of terminal Bi2.
	 B0204	Manual 2-way valve isolation kit. Avoids condensation during the cooling operation (already included in the other thermoelectric hydraulic kits).
	 B0200 B0201	Kit pair adapters. Allows you to transform the Bi2 3/4" Eurocone connection into a standard 1/2" (B0200) or 3/4" (B0201) gas thread connection.
	 B0203	Kit 90° Eurokonus bend Facilitates the connection in case of hydraulic connections with walled pipes.
ELECTRICAL KITS	B0632 (200) B0632 (400) B0632 (600) B0633 (800) B0633 (1000)	Extension cord control panel kit Power and motor sensor electric connection cable for installations where connection positions are rotated (from Left to Right).
AESTHETICAL KITS	 B0682	Feet kit for Bi2 Smart Kit of two aesthetic feet for coverage of any floor pipes. Available in white.
	 B0683	Floor fixing brackets kit for Bi2 Smart Kit support brackets and mounting the floor of the terminal (applications front windows or on non-bearing walls). It also has the function of aesthetic kit (color off white).
	 B0677 (200) B0678 (400) B0679 (600) B0680 (800) B0681 (1000)	Back panel in painted sheet (for front glass applications).
	 B0520 (200) B0521 (400) B0522 (600) B0523 (800) B0524 (1000)	Bi2 ceiling installation kit (excluding SLR and SLI versions)

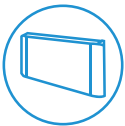
Bi2 SMART

SL smart - ultraslim



Compatible with:

SiOS
CONTROL

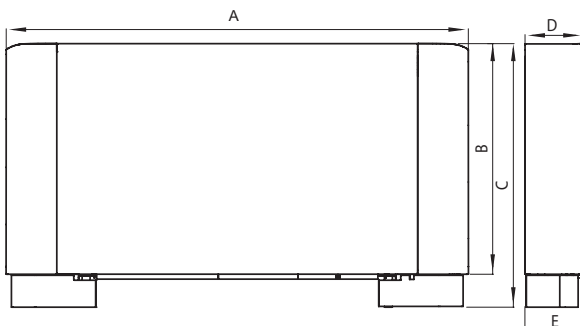


TOTAL FLAT DESIGN

Linear aesthetics (with bottom suction system) for maximum integration with the surrounding architecture.

FEATURES

- Cools, Dehumidifies, Heats and Filters
- Compact: thickness of min 12,9 cm - max 15 cm
- Range consists of 5 power models
- AC Motor
- Sides in ABS
- Total Flat Aesthetic with integrated vacuum system
- Installation: floor, wall, ceiling*
- Available in colors: White RAL 9010



*Ceiling installation: ceiling mounting kit and feet kit are necessary

		200	400	600	800	1000
A	mm	759	959	1159	1359	1559
B	mm	579	579	579	579	579
C	mm	659	659	659	659	659
D	mm	129	129	129	129	129
E	mm	150	150	150	150	150
Net weight	kg	11,5	13	15,5	18,5	21,5

- 1 Valve with thermoelectric actuator (accessory kit)
- 2 High efficiency battery
- 3 Water temperature probe
- 4 High efficiency tangential fan
- 5 Condensate collection tray
- 6 Electronic control (accessory kit)



MODEL		SL smart - ultraslim														
		200			400			600			800			1000		
SL Smart (with AC Motor) cod.		01409			01410			01411			01412			01413		
Fan speed		Lower Middle High			Lower Middle High			Lower Middle High			Lower Middle High			Lower Middle High		
Total power output in cooling mode	a27/19 - w7/12 (a) (E)	0.37 0.71 0.81			0.91 1.34 1.73			0.91 2.09 2.53			1.97 2.67 3.27			2.16 3.24 3.77		
Sensitive power output in cooling mode	a27/19 - w7/12 (a) (E)	0.25 0.50 0.63			0.65 1.02 1.24			0.65 1.55 1.93			1.53 2.07 2.52			1.70 2.41 2.97		
Fluid flow rate	a27/19 - w7/12 (a)	64.7 123.8 142.2			158.1 233.6 302.4			158.1 363.1 441.2			341.8 463.9 569.0			374.8 562.4 655.8		
Water side head loss	a27/19 - w7/12 (a) (E)	3.8 10.6 13.1			2.4 5.5 8.2			2.4 14.2 19			7.3 13.8 18.7			5.7 13.1 18.2		
Total power output in heating mode	a20/15 - w50/ (b) (E)	0.64 0.84 1.05			1.25 1.65 2.31			1.75 2.56 3.12			2.21 3.10 4.10			3.05 3.77 4.67		
Fluid flow rate	a20/15 - w50/ (b)	64.7 123.8 142.2			158.1 233.6 302.4			158.1 363.1 441.2			341.8 463.9 569.0			374.8 562.4 655.8		
Water side head loss	a20/15 - w50/ (b) (E)	3.6 9.8 12.2			2.0 4.6 6.8			6.2 11.8 15.8			6.1 11.5 15.5			4.7 10.9 15.1		
Total power output in heating mode	a20/15 - w45/40 (c) (E)	0.54 0.70 0.88			1.06 1.39 1.94			1.46 2.14 2.60			1.85 2.60 3.44			2.56 3.16 3.91		
Fluid flow rate	a20/15 - w45/40 (c)	91.7 119.4 149.0			181.3 236.5 328.8			250.2 364.0 442.0			315.0 442.2 585.5			436.3 538.2 665.7		
Water side head loss	a20/15 - w45/40 (c) (E)	5.7 8.8 12.2			2.9 4.8 7.9			5.8 11.8 16.0			4.1 8.9 14.2			6.4 9.8 13.9		
Absorbed power	(E)	6 10 17			9 18 28			9 21 35			21 33 47			19 30 43		
Sound Power Lw(A)	(E)	38 45 52			39 46 53			41 47 53			39 45 53			42 48 54		
Sound pressure Lp (A)	(d)	29 36 43			30 37 44			32 38 44			30 36 44			33 39 45		
Air flow	(f)	100 130 160			190 250 320			280 360 460			350 450 575			400 510 650		
Battery water content		0.47			0.8			1.13			1.46			1.8		
Maximum operating pressure		10			10			10			10			10		
Hydraulic fittings		Eurocone 3/4			Eurocone 3/4			Eurocone 3/4			Eurocone 3/4			Eurocone 3/4		
Electrical power supply		230/1/50			230/1/50			230/1/50			230/1/50			230/1/50		
Max static heating efficiency (50°C)		-			-			-			-			-		
Max static heating efficiency (70°C)		-			-			-			-			-		
Water content of the radiant panel		-			-			-			-			-		

The above services refer to the following operating conditions:

(a) Cooling mode at standard conditions: air temperature 27°C b.s., 19°C b.u., water inlet temperature 7°C, water outlet temperature 12°C

(b) Heating mode conditions of use 1: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 50°C, water flow equal to the cooling water standard condition

(c) Heating mode standard conditions: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 45°C, water outlet temperature 40°C

(d) Sound pressure level valid for closed rooms with a volume of 100 m3 with a reverberation time of 0.5 s and installation on the floor/ceiling, sound emission on 1/4 sphere at 3 m distance












(E) Eurovent certified data

(f) Air flow rate measured with clean filters

ACCESSORIES

SL SMART - ULTRASLIM

	CODE	DESCRIPTION	COMBINATIONS
ON BOARD CONTROL	 <p>B0659 PHASE OUT</p>	Built-in electronic control kit. Control with adjustable thermostat, fan speed selection (summer, winter, automatic) and ventilation program (minimum, maximum, night, modulated) and minimum water sensor function. It has an inlet for the presence sensor connection, and two 230VAC outlets for the control of 2 valves.	
	 <p>B0855 PHASE OUT</p>	Touch flat design built-in control kit. Back-lit display with desired temperature visualization, real-touch switches, mode of operation and fan speed selection. Control with adjustable thermostat, fan speed selection (summer, winter, automatic) and ventilation program (minimum, maximum, night, modulated) and minimum water sensor function. It has an inlet for the presence sensor contact connection, a 230VAC outlet for the solenoid valve control. Remote control provided. Can be remote controlled via a combination of keys for connection with Modbus RS485 protocol. Command pre-configured on the machine (cannot be ordered separately).	B0736  My Home by 
REMOTE CONTROL	 <p>B0707 PHASE OUT</p>	Electronic control kit for remotization for 3 speed Fan (selectable between 5 available) and 2 solenoid valves. Fan control kit with motor feedback with speed gauge generator. No need to configure controls depending on the size of the fancoil. Electronic remote board solenoid valves actuating contacts. From same control B0151 or B0152 you can control up to 10 terminals equipped with Bi2 B0707.	B0151 B0152
	 <p>B0151 PHASE OUT</p>	Wall control kit with thermostat, summer/winter selector and speed switch. Wall thermostat with room sensor, On-Off switch, three-speed fan and summer/winter selector. Temperature range setting from 5 °C to 30 °C. 230 V supply. It has two 230VAC hot water and cold water solenoid outlets and an inlet water temperature sensor.	B0707
	 <p>B0152 PHASE OUT</p>	Recessed control kit LCD with ambient sensor and thermostat, summer/winter selector and speed switch. Electronic recessed thermostat with ambient sensor, On-Off switch, fan speed selector (min, med, max and auto), ambient temperature, minimum water sensor mode and summer/winter selector. Temperature range setting from 5 °C to 35 °C. 230 V supply.	B0707
	 <p>B0736</p>	LCD wall clock thermostat remote control kit. Programmable wall LCD thermostat control for MODBUS connection, RS485. Ability to control up to 30 units. Desired temperature selection, operation mode, fan speed, manual/programmable thermostat. Room sensor inserted in control. Backlit LCD. Presence contact input. The control is equipped with a 230/12VAC double insulation power transformer and a buffer battery. Wall installation with center to center distance compatible with standard recessed mounting box 503.	B0855 
Addressing for Bticino management and SIOS Control		INDRZ	Mandatory default addressing of remote kits in case of remote management via Modbus connection with SIOS Control, Bticino MYHome and any other system that communicates in Modbus.

	CODE	DESCRIPTION
HYDRAULIC KITS	 B0832	2-way valves unit kit with 4-wire thermoelectric actuator and end run micro switch. Consists of a valve with thermoelectric actuator and holder, the first allows for the control of terminal thermal emissions intercepting water passage; the holder allows the balancing of system load losses. This kit is mandatory in version SLR except in the case of using a 3-way valve kit or in the presence of a collector with thermoelectric heads.
	 B0834	3-way valves unit kit with 4-wire thermoelectric actuator and end run micro switch. Consists of a three-way diverter valve with thermoelectric actuator, and a holder. The first allows the control of terminal thermal emissions intercepting water passage; the holder allows the balancing of system load losses; the by-pass keeps water circulating in the system. This kit is an alternative to the 2-way solenoid valve kit (required in version SLR).
	 B0205	Manual 2-way group valves kit. Consisting of a valve and a holder, the first allows the cabinet to be manually excluded from the system, while the holder allows the balancing of system load losses. Also allowed when solenoid valves on the collector are managed by the control kit of terminal Bi2.
	 B0204	Manual 2-way valve isolation kit. Avoids condensation during the cooling operation (already included in the other thermoelectric hydraulic kits).
	 B0200 B0201	Kit pair adapters. Allows you to transform the Bi2 3/4" Eurocone connection into a standard 1/2" (B0200) or 3/4" (B0201) gas thread connection.
	 B0203	Kit 90° Eurokonus bend Facilitates the connection in case of hydraulic connections with walled pipes.
ELECTRICAL KITS	 B0459 PHASE OUT	Extension cord control panel kit Power and motor sensor electric connection cable for installations where connection positions are rotated (from Left to Right).
AESTHETICAL KITS	 B0682	Feet kit for Bi2 Smart Kit of two aesthetic feet for coverage of any floor pipes. Available in white.
	 B0683	Floor fixing brackets kit for Bi2 Smart Kit support brackets and mounting the floor of the terminal (applications front windows or on non-bearing walls). It also has the function of aesthetic kit (color off white).
	 B0677 (200) B0678 (400) B0679 (600) B0680 (800) B0681 (1000)	Back panel in painted sheet (for front glass applications).
	 B0520 (200) B0521 (400) B0522 (600) B0523 (800) B0524 (1000)	Bi2 ceiling installation kit (excluding SLR and SLI versions)

Bi2 PLUS

SLR+ inverter - ultraslim



Compatible with:



METAL DESIGN

Metal finishes for maximum aesthetic appeal.



RADIANT TECHNOLOGY

Terminal with tubular heating panel for maximum acoustic and climate comfort.

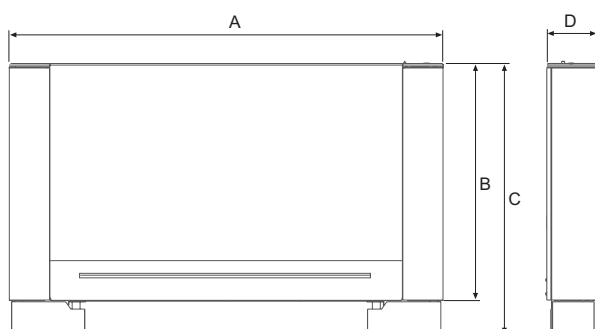
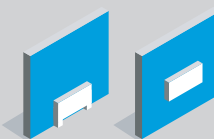


A CHOICE OF COLOURS

Bi2 Plus can be customized upon request to make it fit with the color scheme of the surrounding environment.

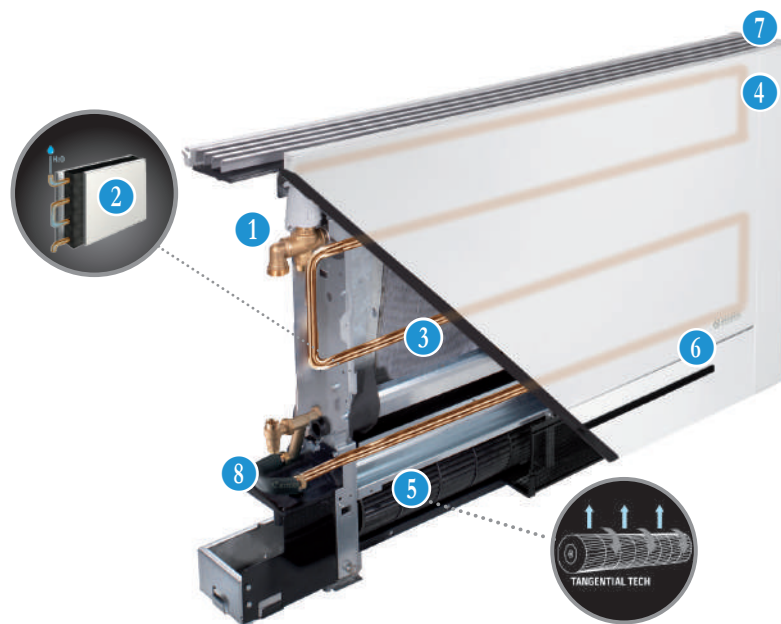
FEATURES

- Air Conditioning, Dehumidifying, Heating and Filtering
- Terminal with integrated heating panel
- Compact: Thickness of only 12,9 cm
- Range consisting of 5 power modules
- Brushless DC motor
- Available in the colours: White RAL 9010
- Installation: floor, wall



		200	400	600	800	1000
A	mm	697	897	1097	1297	1497
B	mm	579	579	579	579	579
C	mm	659	659	659	659	659
D	mm	129	129	129	129	129
Net weight	kg	15	17	21	24	28

- 1 Valve with thermoelectric actuator (accessory kit)
- 2 Tubular heating panel
- 3 HE battery
- 4 Water temperature probe
- 5 High efficiency tangential fan
- 6 DC Brushless inverter motor
- 7 Electronic controls (accessory kit)
- 8 Condensate collection tray



MODEL		SLR+ inverter - ultraslim																
		200			400			600			800			1000				
SLR+ Inverter (white)		cod.	01609			01610			01611			01612			01613			
Fan speed			Lower	Middle	High	Lower	Middle	High	Lower	Middle	High	Lower	Middle	High	Lower	Middle	High	
Total power output in cooling mode	a27/19 - w7/12	(a) (E)	kW	0.38	0.71	0.82	0.91	1.34	1.74	1.50	2.10	2.54	1.98	2.69	3.29	2.17	3.25	3.78
Sensitive power output in cooling mode	a27/19 - w7/12	(a) (E)	kW	0.26	0.50	0.64	0.65	1.02	1.25	1.10	1.56	1.94	1.54	2.09	2.54	1.71	2.42	2.98
Fluid flow rate	a27/19 - w7/12	(a)	l/h	66.2	123.3	142.9	157.6	232.0	302.5	259.2	363.1	440.3	341.9	464.7	570.0	374.8	561.4	654.8
Water side head loss	a27/19 - w7/12	(a) (E)	kPa	3.8	10.6	13.1	2.4	5.5	8.2	7.5	14.2	19	7.3	13.8	18.7	5.7	13.1	18.2
Total power output in heating mode	a20/15 - w50/-	(b) (E)	kW	0.64	0.84	1.05	1.25	1.65	2.31	1.75	2.56	3.12	2.21	3.10	4.10	3.05	3.77	4.67
Fluid flow rate	a20/15 - w50/-	(b)	l/h	66.2	123.3	142.9	157.6	232.0	302.5	259.2	363.1	440.3	341.9	464.7	570.0	374.8	561.4	654.8
Water side head loss	a20/15 - w50/-	(b) (E)	kPa	3.2	8.8	10.9	2.0	4.6	6.8	6.2	11.8	15.8	6.1	11.5	15.5	4.7	10.9	15.1
Total power output in heating mode	a20/15 - w45/40	(c) (E)	kW	0.54	0.70	0.88	1.06	1.39	1.94	1.46	2.14	2.60	1.85	2.60	3.44	2.56	3.16	3.91
Fluid flow rate	a20/15 - w45/40	(c)	l/h	91.9	119.9	150.0	181.9	238.1	330.3	250.6	365.7	444.6	316.6	444.8	587.9	438.1	541.0	668.5
Water side head loss	a20/15 - w45/40	(c) (E)	kPa	5.7	8.8	12.2	2.9	4.8	7.9	5.8	11.8	16.0	4.1	8.9	14.2	6.4	9.8	13.9
Absorbed power		(E)	W	5	7	11	6	9	19	7	11	20	8	12	24	9	14	27
Sound Power Lw(A)		(E)	dB(A)	38	45	52	39	46	53	41	47	53	42	48	54	42	48	54
Sound pressure Lp (A)		(d)	dB(A)	29	36	43	30	37	44	32	38	44	33	39	45	33	39	45
Air flow		(f)	m ³ /h	100	130	160	190	250	320	280	360	460	350	450	575	400	510	650
Battery water content			l	0.47			0.8			1.13			1.46			1.8		
Maximum operating pressure			bar	10			10			10			10			10		
Hydraulic fittings			inches	Eurocone 3/4			Eurocone 3/4			Eurocone 3/4			Eurocone 3/4			Eurocone 3/4		
Electrical power supply			V/ph/Hz	230/1/50			230/1/50			230/1/50			230/1/50			230/1/50		
Max static heating efficiency (50°C)			kW	0.37			0.42			0.5			0.62			0.77		
Max static heating efficiency (70°C)			kW	0.59			0.71			0.84			1.04			1.28		
Water content of the radiant panel			l	0.19			0.27			0.35			0.43			0.5		








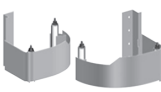


The above services refer to the following operating conditions:

- (a) Cooling mode at standard conditions: air temperature 27°C b.s., 19°C b.u., water inlet temperature 7°C, water outlet temperature 12°C
- (b) Heating mode conditions of use 1: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 50°C, water flow equal to the cooling water standard condition
- (c) Heating mode standard conditions: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 45°C, water outlet temperature 40°C
- (d) Sound pressure level valid for closed rooms with a volume of 100 m³ with a reverberation time of 0.5 s and installation on the floor/ceiling, sound emission on 1/4 sphere at 3 m distance
- (E) Eurovent certified data
- (f) Air flow rate measured with clean filters

ACCESSORIES

SLR+ INVERTER - ULTRASLIM

	CODE	DESCRIPTION	COMBINATIONS
ON BOARD CONTROL	 B0673	Built-in electronic autonomous control kit. Control with adjustable thermostat, fan mode selection (summer, winter, automatic) and ventilation program (minimum, maximum, night, modulated) and minimum water sensor function. It has an inlet for the presence sensor connection, and two 230VAC outlets for the control of 2 solenoid valves.	
	 B0828	Touch flat design built-in control kit. Back-lit display with desired temperature visualization, real-touch switches, mode of operation and fan speed selection. Control with adjustable thermostat, fan speed selection (summer, winter, automatic) and ventilation program (minimum, maximum, night, modulated) and minimum water sensor function. It has an inlet for the presence sensor contact connection, a 230VAC outlet for the solenoid valve control. Remote control provided. Can be remote controlled via a combination of keys for connection with Modbus RS485 protocol. Command pre-configured on the machine (cannot be ordered separately).	B0736  My Home by 
REMOTE CONTROL	 B0756	Control kit for remotization for the management and control through analogic inlet 0-10V or contacts. It has a 230VAC outlet for the control of one solenoid valve and a water sensor inlet with minimum temperature sensor function (in the contact mode).	
	 B0736	LCD wall clock thermostat remote control kit. Programmable wall LCD thermostat control for MODBUS connection, RS485. Ability to control up to 30 units. Desired temperature selection, operation mode, fan speed, manual/programmable thermostat. Room sensor inserted in control. Backlit LCD. Presence contact input. The control is equipped with a 230/12VAC double insulation power transformer and a buffer battery. Wall installation with center to center distance compatible with standard recessed mounting box 503.	B0828 
Addressing for Bticino management and SiOS Control		INDRZ	Mandatory default addressing of remote kits in case of remote management via Modbus connection with SiOS Control, Bticino MYHome and any other system that communicates in Modbus.

	CODE	DESCRIPTION
HYDRAULIC KITS	 B0832	2-way valves unit kit with 4-wire thermoelectric actuator and end run micro switch. Consists of a valve with thermoelectric actuator and holder, the first allows for the control of terminal thermal emissions intercepting water passage; the holder allows the balancing of system load losses. This kit is mandatory in version SLR except in the case of using a 3-way valve kit or in the presence of a collector with thermoelectric heads.
	 B0834	3-way valves unit kit with 4-wire thermoelectric actuator and end run micro switch. Consists of a three-way diverter valve with thermoelectric actuator, and a holder. The first allows the control of terminal thermal emissions intercepting water passage; the holder allows the balancing of system load losses; the by-pass keeps water circulating in the system. This kit is an alternative to the 2-way solenoid valve kit (required in version SLR).
	 B0205	Manual 2-way group valves kit. Consisting of a valve and a holder, the first allows the cabinet to be manually excluded from the system, while the holder allows the balancing of system load losses. Also allowed when solenoid valves on the collector are managed by the control kit of terminal Bi2.
	 B0204	Manual 2-way valve isolation kit. Avoids condensation during the cooling operation (already included in the other thermoelectric hydraulic kits).
	 B0200 B0201	Kit pair adapters. Allows you to transform the Bi2 3/4" Eurocone connection into a standard 1/2" (B0200) or 3/4" (B0201) gas thread connection.
	 B0203	Kit 90° Eurokonus bend Facilitates the connection in case of hydraulic connections with walled pipes.
ELECTRICAL KITS	 B0632 (200) B0632 (400) B0632 (600) B0633 (800) B0633 (1000)	Extension cord control panel kit Power and motor sensor electric connection cable for installations where connection positions are rotated (from Left to Right).
AESTHETICAL KITS	 B0157 PHASE OUT	Feet kit Kit of two aesthetic feet for coverage of any floor pipes. Available in white.
	 B0193 PHASE OUT	Floor fixing brackets kit Terminal support and floor fixing bracket kit (front glass applications or on non-bearing walls). To be used in combination with kit B0157.
	 B0171 (200) B0173 (400) B0175 (600) B0177 (800) B0179 (1000) PHASE OUT	Back panel in painted sheet (for front glass applications).

Bi2 PLUS

SL+ inverter - ultraslim



Compatible with:



METAL DESIGN

Metal finishes for maximum aesthetic appeal.

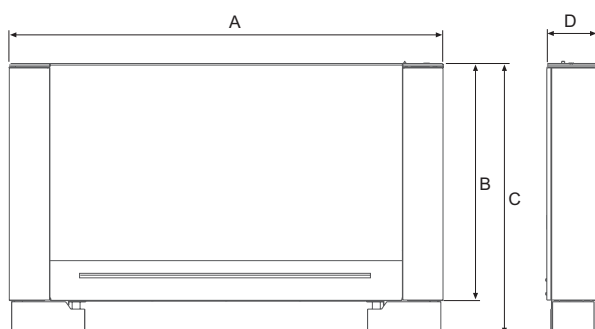
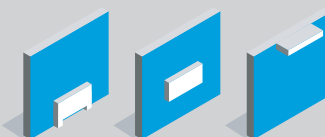


A CHOICE OF COLOURS

Bi2 Plus can be customized upon request to make it fit with the color scheme of the surrounding environment.

FEATURES

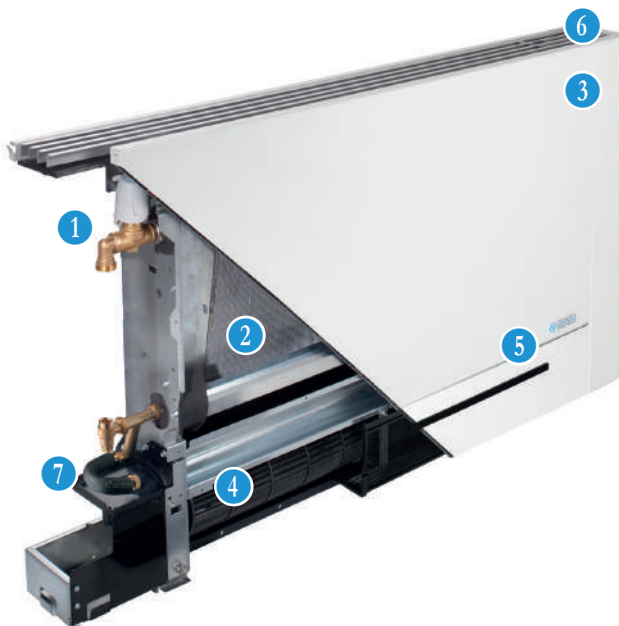
- Cools, Dehumidifies, Heats and Filters
- Compact: thickness of just 12,9 cm
- Range consists of 5 power models
- DC brushless Motor
- Available in colors: White RAL 9010
- Installation: floor, wall, ceiling (only for versions SL)



*Ceiling installation: ceiling mounting kit and feet kit are necessary

		200	400	600	800	1000
A	mm	697	897	1097	1297	1497
B	mm	579	579	579	579	579
C	mm	659	659	659	659	659
D	mm	129	129	129	129	129
Net weight	kg	13	15	17	20	24

- 1 Valve with thermoelectric actuator (accessory kit)
- 2 High efficiency battery
- 3 Water temperature probe
- 4 High efficiency tangential fan
- 5 DC Brushless inverter motor
- 6 Electronic controls (accessory kit)
- 7 Condensate collection tray



MODEL		SL+ inverter - ultraslim																		
		200			400			600			800			1000						
SL+ Inverter - White		cod.	01619			01620			01621			01622			01623					
Fan speed			Lower	Middle	High	Lower	Middle	High	Lower	Middle	High	Lower	Middle	High	Lower	Middle	High			
Total power output in cooling mode		a27/19 - w7/12 (a)	(E)	kW		0.38	0.71	0.82	0.91	1.34	1.74	1.50	2.10	2.54	1.98	2.69	3.29	2.17	3.25	3.78
Sensitive power output in cooling mode		a27/19 - w7/12 (a)	(E)	kW		0.26	0.50	0.64	0.65	1.02	1.25	1.10	1.56	1.94	1.54	2.09	2.54	1.71	2.42	2.98
Fluid flow rate		a27/19 - w7/12 (a)		l/h		66.2	123.3	142.9	157.6	232.0	302.5	259.2	363.1	440.3	341.9	464.7	570.0	374.8	561.4	654.8
Water side head loss		a27/19 - w7/12 (a)	(E)	kPa		3.8	10.6	13.1	2.4	5.5	8.2	7.5	14.2	19	7.3	13.8	18.7	5.7	13.1	18.2
Total power output in heating mode		a20/15 - w50/- (b)	(E)	kW		0.64	0.84	1.05	1.25	1.65	2.31	1.75	2.56	3.12	2.21	3.10	4.10	3.05	3.77	4.67
Fluid flow rate		a20/15 - w50/- (b)		l/h		66.2	123.3	142.9	157.6	232.0	302.5	259.2	363.1	440.3	341.9	464.7	570.0	374.8	561.4	654.8
Water side head loss		a20/15 - w50/- (b)	(E)	kPa		3.2	8.8	10.9	2.0	4.6	6.8	6.2	11.8	15.8	6.1	11.5	15.5	4.7	10.9	15.1
Total power output in heating mode		a20/15 - w45/40 (c)	(E)	kW		0.54	0.70	0.88	1.06	1.39	1.94	1.46	2.14	2.60	1.85	2.60	3.44	2.56	3.16	3.91
Fluid flow rate		a20/15 - w45/40 (c)		l/h		91.9	119.9	150.0	181.9	238.1	330.3	250.6	365.7	444.6	316.6	444.8	587.9	438.1	541.0	668.5
Water side head loss		a20/15 - w45/40 (c)	(E)	kPa		5.7	8.8	12.2	2.9	4.8	7.9	5.8	11.8	16.0	4.1	8.9	14.2	6.4	9.8	13.9
Absorbed power			(E)	W		5	7	11	6	9	19	7	11	20	8	12	24	9	14	27
Sound Power Lw(A)			(E)	dB(A)		38	45	52	39	46	53	41	47	53	42	48	54	42	48	54
Sound pressure Lp (A)			(d)	dB(A)		29	36	43	30	37	44	32	38	44	33	39	45	33	39	45
Air flow			(f)	m3/h		100	130	160	190	250	320	280	360	460	350	450	575	400	510	650
Battery water content				l		0.47			0.8			1.13			1.46			1.8		
Maximum operating pressure				bar		10			10			10			10			10		
Hydraulic fittings				inches		Eurocone 3/4			Eurocone 3/4			Eurocone 3/4			Eurocone 3/4			Eurocone 3/4		
Electrical power supply				V/ph/Hz		230/1/50			230/1/50			230/1/50			230/1/50			230/1/50		
Max static heating efficiency (50°C)				kW		-			-			-			-			-		
Max static heating efficiency (70°C)				kW		-			-			-			-			-		
Water content of the radiant panel				l		-			-			-			-			-		

The above services refer to the following operating conditions:

(a) Cooling mode at standard conditions: air temperature 27°C b.s., 19°C b.u., water inlet temperature 7°C, water outlet temperature 12°C

(b) Heating mode conditions of use 1: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 50°C, water flow equal to the cooling water standard condition

(c) Heating mode standard conditions: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 45°C, water outlet temperature 40°C

(d) Sound pressure level valid for closed rooms with a volume of 100 m3 with a reverberation time of 0.5 s and installation on the floor/ceiling, sound emission on 1/4 sphere at 3 m distance











(E) Eurovent certified data

(f) Air flow rate measured with clean filters

ACCESSORIES

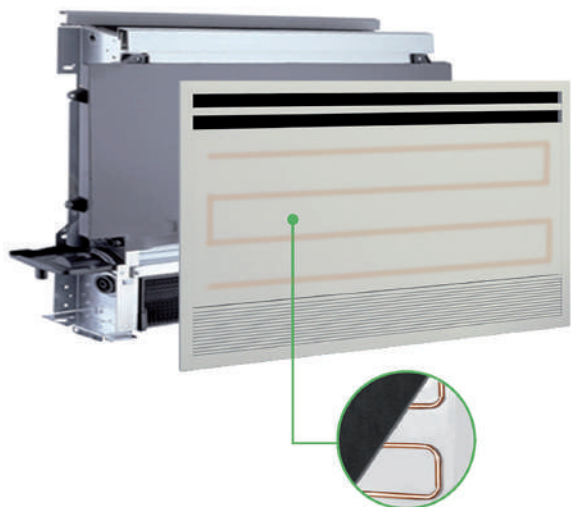
SL+ INVERTER - ULTRASLIM

	CODE	DESCRIPTION	COMBINATIONS
ON BOARD CONTROL	 B0673	Built-in electronic autonomous control kit. Control with adjustable thermostat, fan mode selection (summer, winter, automatic) and ventilation program (minimum, maximum, night, modulated) and minimum water sensor function. It has an inlet for the presence sensor connection, and two 230VAC outlets for the control of 2 solenoid valves.	
	 B0828	Touch flat design built-in control kit. Back-lit display with desired temperature visualization, real-touch switches, mode of operation and fan speed selection. Control with adjustable thermostat, fan speed selection (summer, winter, automatic) and ventilation program (minimum, maximum, night, modulated) and minimum water sensor function. It has an inlet for the presence sensor contact connection, a 230VAC outlet for the solenoid valve control. Remote control provided. Can be remote controlled via a combination of keys for connection with Modbus RS485 protocol. Command pre-configured on the machine (cannot be ordered separately).	B0736  My Home by 
REMOTE CONTROL	 B0756	Control kit for remotization for the management and control through analogic inlet 0-10V or contacts. It has a 230VAC outlet for the control of one solenoid valve and a water sensor inlet with minimum temperature sensor function (in the contact mode).	B0151 B0152
	 B0151 PHASE OUT	Wall control kit with thermostat, summer/winter selector and speed switch. Wall thermostat with room sensor, On-Off switch, three-speed fan and summer/winter selector. Temperature range setting from 5 °C to 30 °C. 230 V supply. It has two 230VAC hot water and cold water solenoid outlets and an inlet water temperature sensor.	B0756
	 B0152 PHASE OUT	Recessed control kit LCD with ambient sensor and thermostat, summer/winter selector and speed switch. Electronic recessed thermostat with ambient sensor, On-Off switch, fan speed selector (min, med, max and auto), ambient temperature, minimum water sensor mode and summer/winter selector. Temperature range setting from 5 °C to 35 °C. 230 V supply.	B0756
	 B0736	LCD wall clock thermostat remote control kit. Programmable wall LCD thermostat control for MODBUS connection, RS485. Ability to control up to 30 units. Desired temperature selection, operation mode, fan speed, manual/programmable thermostat. Room sensor inserted in control. Backlit LCD. Presence contact input. The control is equipped with a 230/12VAC double insulation power transformer and a buffer battery. Wall installation with center to center distance compatible with standard recessed mounting box 503.	B0828 
Addressing for Bticino management and SiOS Control	INDRZ	Mandatory default addressing of remote kits in case of remote management via Modbus connection with SiOS Control, Bticino MYHome and any other system that communicates in Modbus.	

	CODE	DESCRIPTION
HYDRAULIC KITS	 B0832	2-way valves unit kit with 4-wire thermoelectric actuator and end run micro switch. Consists of a valve with thermoelectric actuator and holder, the first allows for the control of terminal thermal emissions intercepting water passage; the holder allows the balancing of system load losses. This kit is mandatory in version SLR except in the case of using a 3-way valve kit or in the presence of a collector with thermoelectric heads.
	 B0834	3-way valves unit kit with 4-wire thermoelectric actuator and end run micro switch. Consists of a three-way diverter valve with thermoelectric actuator, and a holder. The first allows the control of terminal thermal emissions intercepting water passage; the holder allows the balancing of system load losses; the by-pass keeps water circulating in the system. This kit is an alternative to the 2-way solenoid valve kit (required in version SLR).
	 B0205	Manual 2-way group valves kit. Consisting of a valve and a holder, the first allows the cabinet to be manually excluded from the system, while the holder allows the balancing of system load losses. Also allowed when solenoid valves on the collector are managed by the control kit of terminal Bi2.
	 B0204	Manual 2-way valve isolation kit. Avoids condensation during the cooling operation (already included in the other thermoelectric hydraulic kits).
	 B0200 B0201	Kit pair adapters. Allows you to transform the Bi2 3/4" Eurocone connection into a standard 1/2" (B0200) or 3/4" (B0201) gas thread connection.
	 B0203	Kit 90° Eurokonus bend Facilitates the connection in case of hydraulic connections with walled pipes.
ELECTRICAL KITS	 B0632 (200) B0632 (400) B0632 (600) B0633 (800) B0633 (1000)	Extension cord control panel kit Power and motor sensor electric connection cable for installations where connection positions are rotated (from Left to Right).
AESTHETICAL KITS	 B0157 PHASE OUT	Feet kit Kit of two aesthetic feet for coverage of any floor pipes. Available in white.
	 B0193 PHASE OUT	Floor fixing brackets kit Terminal support and floor fixing bracket kit (front glass applications or on non-bearing walls). To be used in combination with kit B0157.
	 B0171 (200) B0173 (400) B0175 (600) B0177 (800) B0179 (1000) PHASE OUT	Back panel in painted sheet (for front glass applications).
	 B0520 (200) B0521 (400) B0522 (600) B0523 (800) B0524 (1000)	Bi2 ceiling installation kit (excluding SLR versions)

Bi2 NAKED

SLIR inverter - ultraslim

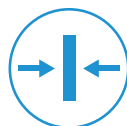


Compatible with:



RADIANT TECHNOLOGY

Terminal with tubular heating panel for maximum acoustic and climate comfort.



SMALL FOOTPRINT

Formwork measuring only 14.2 cm deep.

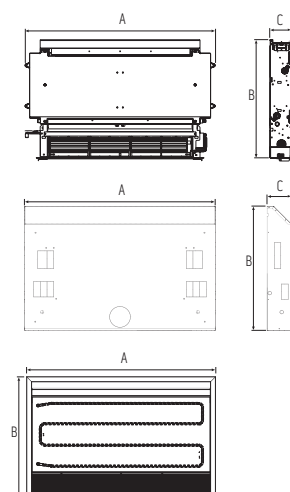


MAXIMUM INTEGRATION

Closing panel in paintable metal or installation on wall and ceiling.

FEATURES

- Air Conditioning, Dehumidifying, Heating and Filtering
- Recessed version with heating panel
- Compact: Wall recessed thickness of only 142 mm
- Range consisting of 5 power models
- Recessed with formwork
- DC Brushless motor
- Ultra-thin aesthetic heating panel in painted sheet metal
- Available only in the version with hydraulic connections on the left
- Available in the colours: White RAL 9010
- Wall installation



		200	400	600	800	1000
A	mm	525	725	925	1125	1325
B	mm	576	576	576	576	576
C	mm	126	126	126	126	126
Net weight SLIR	kg	9	12	15	18	21

FORMWORK FOR RECESS		200	400	600	800	1000
A	mm	713	913	1113	1313	1513
B	mm	725	725	725	725	725
C	mm	142	142	142	142	142

HEATING PANEL KIT		200	400	600	800	1000
A	mm	772	972	1172	1372	1572
B	mm	754	754	754	754	754



Rear detail of the sectioned heating front panel for SLIR version



Recessed with sheet metal aesthetic panel (SLI and SLIR heating versions)

MODEL		SLIR inverter - ultraslim															
		200			400			600			800			1000			
SLIR inverter		cod.	01639			01640			01641			01642			01643		
Formwork for recess (obligatory)		cod.	B0568			B0569			B0570			B0571			B0572		
Heating panel kit (obligatory for SLIR version)		cod.	B0731			B0732			B0733			B0734			B0735		
Fan speed			Lower	Middle	High	Lower	Middle	High	Lower	Middle	High	Lower	Middle	High	Lower	Middle	High
Total power output in cooling mode		a27/19 - w7/12 (a) (E)	0.38	0.71	0.82	0.91	1.34	1.74	1.50	2.10	2.54	1.98	2.69	3.29	2.17	3.25	3.78
Sensitive power output in cooling mode		a27/19 - w7/12 (a) (E)	0.26	0.50	0.64	0.65	1.02	1.25	1.10	1.56	1.94	1.54	2.09	2.54	1.71	2.42	2.98
Fluid flow rate		a27/19 - w7/12 (a)	66.2	123.3	142.9	157.6	232.0	302.5	259.2	363.1	440.3	341.9	464.7	570.0	374.8	561.4	654.8
Water side head loss		a27/19 - w7/12 (a) (E)	3.8	10.6	13.1	2.4	5.5	8.2	7.5	14.2	19	7.3	13.8	18.7	5.7	13.1	18.2
Total power output in heating mode		a20/15 - w50/ (b) (E)	0.64	0.84	1.05	1.25	1.65	2.31	1.75	2.56	3.12	2.21	3.10	4.10	3.05	3.77	4.67
Fluid flow rate		a20/15 - w50/ (b)	66.2	123.3	142.9	157.6	232.0	302.5	259.2	363.1	440.3	341.9	464.7	570.0	374.8	561.4	654.8
Water side head loss		a20/15 - w50/ (b) (E)	3.2	8.8	10.9	2.0	4.6	6.8	6.2	11.8	15.8	6.1	11.5	15.5	4.7	10.9	15.1
Total power output in heating mode		a20/15 - w45/40 (c) (E)	0.54	0.70	0.88	1.06	1.39	1.94	1.46	2.14	2.60	1.85	2.60	3.44	2.56	3.16	3.91
Fluid flow rate		a20/15 - w45/40 (c)	91.9	119.9	150.0	181.9	238.1	330.3	250.6	365.7	444.6	316.6	444.8	587.9	438.1	541.0	668.5
Water side head loss		a20/15 - w45/40 (c) (E)	5.7	8.8	12.2	2.9	4.8	7.9	5.8	11.8	16.0	4.1	8.9	14.2	6.4	9.8	13.9
Absorbed power		(E)	5	7	11	6	9	19	7	11	20	8	12	24	9	14	27
Sound Power Lw(A)		(E)	38	45	52	39	46	53	41	47	53	42	48	54	42	48	54
Sound pressure Lp (A)		(d)	29	36	43	30	37	44	32	38	44	33	39	45	33	39	45
Air flow		(f)	100	130	160	190	250	320	280	360	460	350	450	575	400	510	650
Battery water content			0.47			0.8			1.13			1.46			1.8		
Maximum operating pressure			10			10			10			10			10		
Hydraulic fittings			Eurocone 3/4			Eurocone 3/4			Eurocone 3/4			Eurocone 3/4			Eurocone 3/4		
Electrical power supply			230/1/50			230/1/50			230/1/50			230/1/50			230/1/50		
Max static heating efficiency (50°C)			0.37			0.42			0.50			0.62			0.77		
Max static heating efficiency (70°C)			0.59			0.71			0.84			1.04			1.28		
Water content of the radiant panel			0.27			0.35			0.43			0.50			0.57		

The above services refer to the following operating conditions:

(a) Cooling mode at standard conditions: air temperature 27°C b.s., 19°C b.u., water inlet temperature 7°C, water outlet temperature 12°C

(b) Heating mode conditions of use 1: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 50°C, water flow equal to the cooling water standard condition

(c) Heating mode standard conditions: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 45°C, water outlet temperature 40°C

(d) Sound pressure level valid for closed rooms with a volume of 100 m3 with a reverberation time of 0.5 s and installation on the floor/ceiling, sound emission on 1/4 sphere at 3 m distance

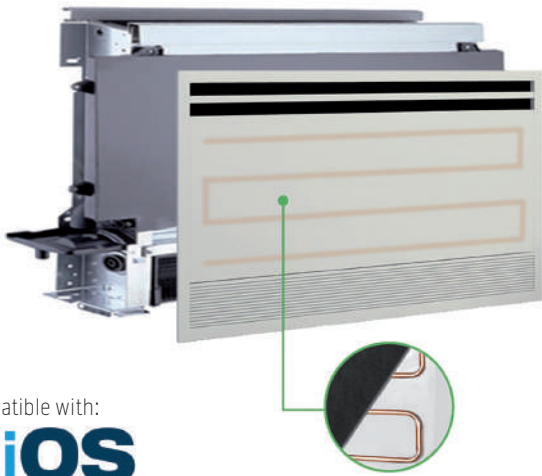
(E) Eurovent certified data

(f) Air flow rate measured with clean filters

NEW

Bi2 NAKED

SLIR inverter - slim



Compatible with:



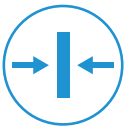
PRO-POWER

Up to 4.85 kW of power, for larger spaces and colder climates.



RADIANT TECHNOLOGY

Terminal with tubular heating panel for maximum acoustic and climate comfort.

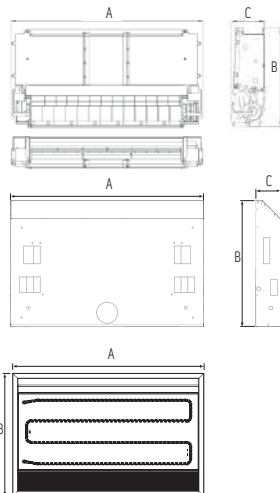


SMALL FOOTPRINT

Formwork measuring only 21.7 cm deep.

FEATURES

- Air Conditioning, Dehumidifying, Heating and Filtering
- Recessed version with heating panel
- Compact: Wall recessed thickness of only 217 mm
- Range consisting of 2 power models
- Recessed with formwork
- DC Brushless motor
- Ultra-thin aesthetic heating panel in painted sheet metal
- Available only in the version with hydraulic connections on the left
- Available in the colours: White RAL 9010
- Wall installation



		1400	1600
A	mm	1110	1180
B	mm	599	599
C	mm	198	198
Net weight SLIR	kg	20	21

FORMWORK FOR RECESS		1400	1600
A	mm	1513	1513
B	mm	725	725
C	mm	217	217

HEATING PANEL KIT		1400	1600
A	mm	1572	1572
B	mm	754	754



Rear detail of the sectioned heating front panel for SLIR version



Recessed with sheet metal aesthetic panel (SLI and SLIR heating versions)

PRELIMINARY TECHNICAL DATA

MODEL				SLIR inverter - slim					
				1400			1600		
SLIR inverter		cod.	02071			02072			
Formwork for recess (obligatory)		cod.	B0894			B0894			
Heating panel kit (obligatory for SLIR version)		cod.	B0735			B0735			
Fan speed				Lower	Middle	High	Lower	Middle	High
Total power output in cooling mode		a27/19 - w7/12 (a)	kW	3.05	3.78	4.45	3.28	4.09	4.85
Sensitive power output in cooling mode		a27/19 - w7/12 (a)	kW	2.14	2.69	3.20	2.30	2.90	3.50
Fluid flow rate		a27/19 - w7/12 (a)	l/h	525.6	652.4	769.9	565.2	706	839.2
Water side head loss		a27/19 - w7/12 (a)	kPa	19	27.8	37.2	20.9	30.8	41
Total power output in heating mode		a20/15 - w50/- (b)	kW	3.61	4.53	5.50	3.85	4.87	5.90
Fluid flow rate		a20/15 - w50/- (b)	l/h	525.6	652.4	769.9	565.2	706	839.2
Water side head loss		a20/15 - w50/- (b)	kPa	16.2	23.7	31.7	19.4	28.6	35.7
Total power output in heating mode		a20/15 - w45/40 (c)	kW	3.07	3.87	4.70	3.28	4.16	5.05
Fluid flow rate		a20/15 - w45/40 (c)	l/h	527.1	663.4	803.9	563.1	713	863.6
Water side head loss		a20/15 - w45/40 (c)	kPa	17.1	25.8	35.5	20.2	30.8	38.8
Absorbed power			W	6	13	26	6	15	29
Sound Power Lw(A)			dB(A)	38	49	54	39	50	55
Sound pressure Lp (A)			dB(A)	30	41	46	31	42	47
Air flow			m ³ /h	460	610	765	490	655	820
Battery water content			l	2.33			2.5		
Maximum operating pressure			bar	10			10		
Hydraulic fittings			inches	Eurocone 3/4			Eurocone 3/4		
Electrical power supply			V/ph/Hz	230/1/50			230/1/50		
Max static heating efficiency (50°C)			kW	0.45			0.5		
Max static heating efficiency (70°C)			kW	0.8			0.9		
Water content of the radiant panel			l	0.57			0.57		

The above services refer to the following operating conditions:

(a) Cooling mode at standard conditions: air temperature 27°C b.s., 19°C b.u., water inlet temperature 7°C, water outlet temperature 12°C

(b) Heating mode conditions of use 1: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 50°C, water flow equal to the cooling water standard condition

(c) Heating mode standard conditions: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 45°C, water outlet temperature 40°C

(d) Sound pressure level valid for closed rooms with a volume of 100 m³ with a reverberation time of 0.5 s and installation on the floor/ceiling, sound emission on 1/4 sphere at 3 m distance

(e) Eurovent certified data

(f) Air flow rate measured with clean filters

ACCESSORIES

SLIR INVERTER - ULTRASLIM E SLIM

	CODE	DESCRIPTION	COMBINATIONS
ON BOARD CONTROL	 <p>B0828 (200) B0828 (400) B0828 (600) B0828 (800) B0828 (1000)</p>	<p>Touch Flat control kit on the machine, to be used in remote-control mode only through a combination of keys, for connection with MODBUS RS485 protocol: B0736 wall-installed remote-control or My Home by Bticino. Minimum water probe function. It has an input for sensor contact connection, 2 x 230 VAC outputs for solenoid valve control. The control cannot be ordered separately from the machine! IT MUST ALWAYS be coupled with B0736 or My Home by Bticino</p>	<p>B0736</p>  <p>My Home by bticino</p>
	 <p>B0872 (1400) B0872 (1600) NEW</p>	<p>Touch Flat control kit on the machine, to be used in remote-control mode only through a combination of keys, for connection with MODBUS RS485 protocol: B0736 wall-installed remote-control or My Home by Bticino. Minimum water probe function. It has an input for sensor contact connection, 2 x 230 VAC outputs for solenoid valve control. The control cannot be ordered separately from the machine! IT MUST ALWAYS be coupled with B0736 or My Home by Bticino</p>	<p>B0736</p>  <p>My Home by bticino</p>
REMOTE CONTROL	 <p>B0756 (200) B0756 (400) B0756 (600) B0756 (800) B0756 (1000)</p>	<p>Control kit for remotization for the management and control through analogic inlet 0-10V or contacts. It has a 230VAC outlet for the control of one solenoid valve and a water sensor inlet with minimum temperature sensor function (in the contact mode).</p>	
	 <p>B0873 (1400) B0873 (1600) NEW</p>	<p>Control kit for remotization for the management and control through analogic inlet 0-10V or contacts. It has a 230VAC outlet for the control of one solenoid valve and a water sensor inlet with minimum temperature sensor function (in the contact mode).</p>	
	 <p>B0736</p>	<p>LCD wall clock thermostat remote control kit. Programmable wall LCD thermostat control for MODBUS connection, RS485. Ability to control up to 30 units. Desired temperature selection, operation mode, fan speed, manual/programmable thermostat. Room sensor inserted in control. Backlit LCD. Presence contact input. The control is equipped with a 230/12VAC double insulation power transformer and a buffer battery. Wall installation with center to center distance compatible with standard recessed mounting box 503.</p>	<p>B0828 B0872</p> 
	<p>Addressing for Bticino management and SiOS Control</p>	<p>INDRZ</p> <p>Mandatory default addressing of remote kits in case of remote management via Modbus connection with SiOS Control, Bticino MYHome and any other system that communicates in Modbus.</p>	

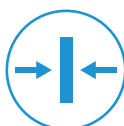
	CODE	DESCRIPTION
HYDRAULIC KITS	 B0832	2-way valves unit kit with 4-wire thermoelectric actuator and end run micro switch. Consists of a valve with thermoelectric actuator and holder, the first allows for the control of terminal thermal emissions intercepting water passage; the holder allows the balancing of system load losses. This kit is mandatory in version SLR except in the case of using a 3-way valve kit or in the presence of a collector with thermoelectric heads.
	 B0834	3-way valves unit kit with 4-wire thermoelectric actuator and end run micro switch. Consists of a three-way diverter valve with thermoelectric actuator, and a holder. The first allows the control of terminal thermal emissions intercepting water passage; the holder allows the balancing of system load losses; the by-pass keeps water circulating in the system. This kit is an alternative to the 2-way solenoid valve kit (required in version SLR).
	 B0205	Manual 2-way group valves kit. Consisting of a valve and a holder, the first allows the cabinet to be manually excluded from the system, while the holder allows the balancing of system load losses. Also allowed when solenoid valves on the collector are managed by the control kit of terminal Bi2.
	 B0204	Manual 2-way valve isolation kit. Avoids condensation during the cooling operation (already included in the other thermoelectric hydraulic kits).
	 B0200 B0201	Kit pair adapters. Allows you to transform the Bi2 3/4" Eurocone connection into a standard 1/2" (B0200) or 3/4" (B0201) gas thread connection.
	 B0203	Kit 90° Eurokonus bend Facilitates the connection in case of hydraulic connections with walled pipes.
RECESSED KITS	 Recessed kit: structure for recessed installation For vertical installation (to be combined with the closing panel) B0568 (200), B0569 (400), B0570 (600), B0571 (800), B0572 (1000), B0894 (1400), B0894 (1600) NEW	
	 Recessed closing heating panel for recessed structure. For vertical installation (necessary kit - White RAL 9010) B0731 (200), B0732 (400), B0733 (600), B0734 (800), B0735 (1000), B0735 (1400), B0735 (1600)	

Bi2 NAKED

SLI inverter - ultraslim



Compatible with:



SMALL FOOTPRINT

Formwork measuring only 14.2 cm deep.

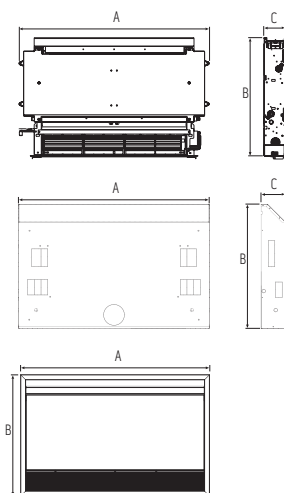


MAXIMUM INTEGRATION

Closing panel in paintable metal or installation on wall and ceiling.

FEATURES

- Cools, Dehumidifies, Heats and Filters
- Recessed version
- Compact: recessed wall thickness of just 142 mm
- Range consists of 5 power models
- DC brushless Motor
- Installation: wall, ceiling (only for versions SL)



		200	400	600	800	1000
A	mm	525	725	925	1125	1325
B	mm	576	576	576	576	576
C	mm	126	126	126	126	126
Net weight SLIR	kg	7	9,5	11	14	17

FORMWORK FOR RECESS		200	400	600	800	1000
A	mm	713	913	1113	1313	1513
B	mm	725	725	725	725	725
C	mm	142	142	142	142	142

FRONT PANEL		200	400	600	800	1000
A	mm	772	972	1172	1372	1572
B	mm	754	754	754	754	754



WALL-INSTALLATION ONLY WITH CLOSURE PANEL

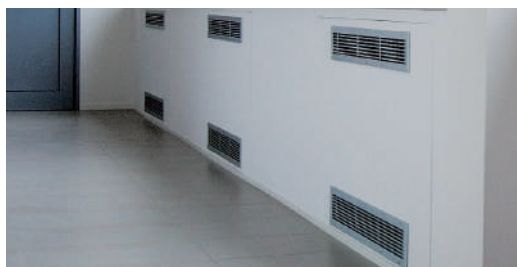
Accessories:



Recessed kit: structure for recessed installation



Closure panel White RAL 9010



WALL INSTALLATION

Accessories:



Intake kit



90° plenum (grilles and panel not supplied)

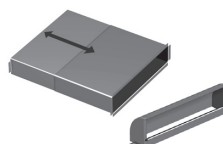


FALSE-CEILING INSTALLATION

Accessories:



Intake kit



telescopic Plenum or 90° plenum



Delivery grilles and intake grilles

MODEL		SLI inverter - ultraslim															
		200			400			600			800			1000			
SLI inverter	cod.		01513	01514	01515	01516	01517										
Formwork for recess (optional)	cod.		B0568	B0569	B0570	B0571	B0572										
Heating panel kit (optional)	cod.		B0578	B0579	B0580	B0581	B0582										
Fan speed			Lower	Middle	High	Lower	Middle	High	Lower	Middle	High	Lower	Middle	High	Lower	Middle	High
Total power output in cooling mode	a27/19 - w7/12 (a) (E)	kW	0.38	0.71	0.82	0.91	1.34	1.74	1.50	2.10	2.54	1.98	2.69	3.29	2.17	3.25	3.78
Sensitive power output in cooling mode	a27/19 - w7/12 (a) (E)	kW	0.26	0.50	0.64	0.65	1.02	1.25	1.10	1.56	1.94	1.54	2.09	2.54	1.71	2.42	2.98
Fluid flow rate	a27/19 - w7/12 (a)	l/h	66.2	123.3	142.9	157.6	232.0	302.5	259.2	363.1	440.3	341.9	464.7	570.0	374.8	561.4	654.8
Water side head loss	a27/19 - w7/12 (a) (E)	kPa	3.8	10.6	13.1	2.4	5.5	8.2	7.5	14.2	19	7.3	13.8	18.7	5.7	13.1	18.2
Total power output in heating mode	a20/15 - w50/- (b) (E)	kW	0.64	0.84	1.05	1.25	1.65	2.31	1.75	2.56	3.12	2.21	3.10	4.10	3.05	3.77	4.67
Fluid flow rate	a20/15 - w50/- (b)	l/h	66.2	123.3	142.9	157.6	232.0	302.5	259.2	363.1	440.3	341.9	464.7	570.0	374.8	561.4	654.8
Water side head loss	a20/15 - w50/- (b) (E)	kPa	3.2	8.8	10.9	2.0	4.6	6.8	6.2	11.8	15.8	6.1	11.5	15.5	4.7	10.9	15.1
Total power output in heating mode	a20/15 - w45/40 (c) (E)	kW	0.54	0.70	0.88	1.06	1.39	1.94	1.46	2.14	2.60	1.85	2.60	3.44	2.56	3.16	3.91
Fluid flow rate	a20/15 - w45/40 (c)	l/h	91.9	119.9	150.0	181.9	238.1	330.3	250.6	365.7	444.6	316.6	444.8	587.9	438.1	541.0	668.5
Water side head loss	a20/15 - w45/40 (c) (E)	kPa	5.7	8.8	12.2	2.9	4.8	7.9	5.8	11.8	16.0	4.1	8.9	14.2	6.4	9.8	13.9
Absorbed power	(E)	W	5	7	11	6	9	19	7	11	20	8	12	24	9	14	27
Sound Power Lw(A)	(E)	dB(A)	38	45	52	39	46	53	41	47	53	42	48	54	42	48	54
Sound pressure Lp (A)	(d)	dB(A)	29	36	43	30	37	44	32	38	44	33	39	45	33	39	45
Air flow	(f)	m ³ /h	100	130	160	190	250	320	280	360	460	350	450	575	400	510	650
Battery water content		l		0.47			0.8			1.13			1.46		1.8		
Maximum operating pressure		bar		10			10			10			10		10		
Hydraulic fittings		inches		Eurocone 3/4			Eurocone 3/4			Eurocone 3/4			Eurocone 3/4		Eurocone 3/4		
Electrical power supply		V/ph/Hz		230/1/50			230/1/50			230/1/50			230/1/50		230/1/50		
Max static heating efficiency (50°C)		kW		-			-			-			-		-		
Max static heating efficiency (70°C)		kW		-			-			-			-		-		
Water content of the radiant panel		l		-			-			-			-		-		

The above services refer to the following operating conditions:

(a) Cooling mode at standard conditions: air temperature 27°C b.s., 19°C b.u., water inlet temperature 7°C, water outlet temperature 12°C

(b) Heating mode conditions of use 1: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 50°C, water flow equal to the cooling water standard condition

(c) Heating mode standard conditions: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 45°C, water outlet temperature 40°C

(d) Sound pressure level valid for closed rooms with a volume of 100 m³ with a reverberation time of 0.5 s and installation on the floor/ceiling, sound emission on 1/4 sphere at 3 m distance

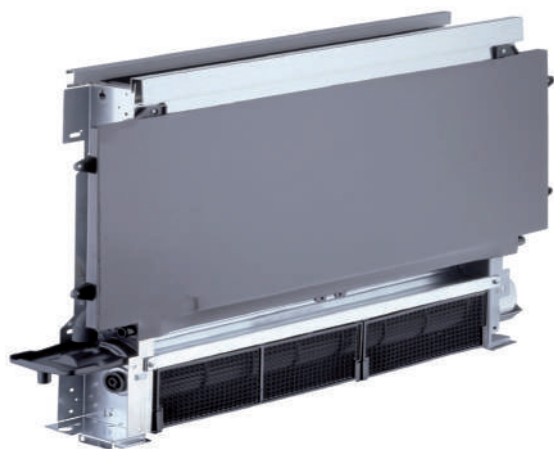
(E) Eurovent certified data

(f) Air flow rate measured with clean filters

NEW

Bi2 NAKED

SLI inverter - slim

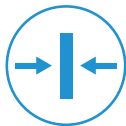


Compatible with:



PRO-POWER

Up to 4.85 kW of power, for larger spaces and colder climates.



SMALL FOOTPRINT

Formwork measuring only 21.7 cm deep.

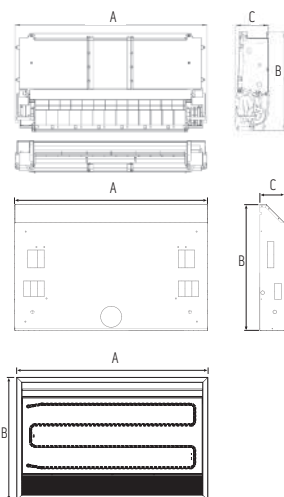


MAXIMUM INTEGRATION

Closing panel in paintable metal or installation on wall and ceiling.

FEATURES

- Cools, Dehumidifies, Heats and Filters
- Recessed version
- Compact: recessed wall thickness of just 217 mm
- Range consists of 2 power models
- DC brushless Motor
- Installation: wall (only for SLI versions) or ceiling-mounted installation.



		1400	1600
A	mm	1110	1180
B	mm	599	599
C	mm	198	198
Net weight SLIR	kg	18	19,5

FORMWORK FOR RECESS		1400	1600
A	mm	1513	1513
B	mm	725	725
C	mm	217	217

FRONT PANEL		1400	1600
A	mm	1572	1572
B	mm	754	754



WALL-INSTALLATION ONLY WITH CLOSURE PANEL

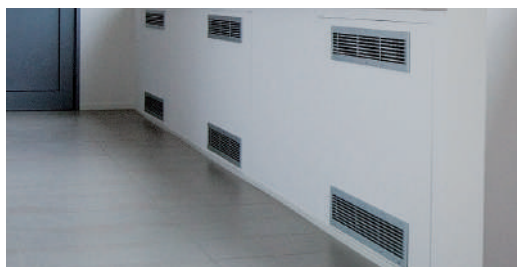
Accessories:



Recessed kit: structure for recessed installation



Closure panel White RAL 9010



WALL INSTALLATION

Accessories:



Intake kit



90° plenum (grilles and panel not supplied)

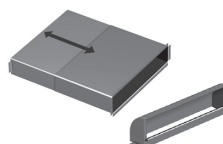


FALSE-CEILING INSTALLATION

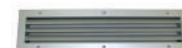
Accessories:



Intake kit



telescopic Plenum or 90° plenum



Delivery grilles and intake grilles

PRELIMINARY TECHNICAL DATA

MODEL				SLI inverter - slim						
				1400			1600			
SLI inverter		cod.		02056			02057			
Formwork for recess (optional)		cod.		B0894			B0894			
Heating panel kit (optional)		cod.		B0582			B0582			
Fan speed				Lower	Middle	High	Lower	Middle	High	
Total power output in cooling mode		a27/19 - w7/12 (a)	KW	3.05	3.78	4.45	3.28	4.09	4.85	
Sensitive power output in cooling mode		a27/19 - w7/12 (a)	KW	2.14	2.69	3.20	2.30	2.90	3.50	
Fluid flow rate		a27/19 - w7/12 (a)	l/h	525.6	652.4	769.9	565.2	706	839.2	
Water side head loss		a27/19 - w7/12 (a)	kPa	19	27.8	37.2	20.9	30.8	41	
Total power output in heating mode		a20/15 - w50/- (b)	KW	3.61	4.53	5.50	3.85	4.87	5.90	
Fluid flow rate		a20/15 - w50/- (b)	l/h	525.6	652.4	769.9	565.2	706	839.2	
Water side head loss		a20/15 - w50/- (b)	kPa	16.2	23.7	31.7	19.4	28.6	35.7	
Total power output in heating mode		a20/15 - w45/40 (c)	KW	3.07	3.87	4.70	3.28	4.16	5.05	
Fluid flow rate		a20/15 - w45/40 (c)	l/h	527.1	663.4	803.9	563.1	713	863.6	
Water side head loss		a20/15 - w45/40 (c)	kPa	17.1	25.8	35.5	20.2	30.8	38.8	
Absorbed power			W	6	13	26	6	15	29	
Sound Power Lw(A)			dB(A)	38	49	54	39	50	55	
Sound pressure Lp (A)			dB(A)	30	41	46	31	42	47	
Air flow			m ³ /h	460	610	765	490	655	820	
Battery water content			l		2.33			2.5		
Maximum operating pressure			bar		10			10		
Hydraulic fittings			inches	Eurocone 3/4			Eurocone 3/4			
Electrical power supply			V/ph/Hz	230/1/50			230/1/50			
Max static heating efficiency (50°C)			KW	-			-			
Max static heating efficiency (70°C)			KW	-			-			
Water content of the radiant panel			l	-			-			

The above services refer to the following operating conditions:

- (a) Cooling mode at standard conditions: air temperature 27°C b.s., 19°C b.u., water inlet temperature 7°C, water outlet temperature 12°C
- (b) Heating mode conditions of use 1: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 50°C, water flow equal to the cooling water standard condition
- (c) Heating mode standard conditions: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 45°C, water outlet temperature 40°C
- (d) Sound pressure level valid for closed rooms with a volume of 100 m³ with a reverberation time of 0.5 s and installation on the floor/ceiling, sound emission on 1/4 sphere at 3 m distance
- (e) Eurovent certified data
- (f) Air flow rate measured with clean filters

ACCESSORIES

SLI INVERTER - ULTRASLIM E SLIM

	CODE	DESCRIPTION	COMBINATIONS
ON BOARD CONTROL	 B0828 (200) B0828 (400) B0828 (600) B0828 (800) B0828 (1000)	Touch Flat control kit on the machine , to be used in remote-control mode only through a combination of keys, for connection with MODBUS RS485 protocol: B0736 wall-installed remote-control or My Home by Bticino. Minimum water probe function. It has an input for sensor contact connection, 2 x 230 VAC outputs for solenoid valve control. The control cannot be ordered separately from the machine! IT MUST ALWAYS be coupled with B0736 or My Home by Bticino	B0736  My Home by 
	 B0872 (1400) B0872 (1600) NEW	Touch Flat control kit on the machine , to be used in remote-control mode only through a combination of keys, for connection with MODBUS RS485 protocol: B0736 wall-installed remote-control or My Home by Bticino. Minimum water probe function. It has an input for sensor contact connection, 2 x 230 VAC outputs for solenoid valve control. The control cannot be ordered separately from the machine! IT MUST ALWAYS be coupled with B0736 or My Home by Bticino	B0736  My Home by 
REMOTE CONTROL	 B0756 (200) B0756 (400) B0756 (600) B0756 (800) B0756 (1000)	Control kit for remotization for the management and control through analogic inlet 0-10V or contacts. It has a 230VAC outlet for the control of one solenoid valve and a water sensor inlet with minimum temperature sensor function (in the contact mode).	B0151 B0152
	 B0873 (1400) B0873 (1600) NEW	Control kit for remotization for the management and control through analogic inlet 0-10V or contacts. It has a 230VAC outlet for the control of one solenoid valve and a water sensor inlet with minimum temperature sensor function (in the contact mode).	B0151 B0152
	 B0151 PHASE OUT	Wall control kit with thermostat, summer/winter selector and speed switch. Wall thermostat with room sensor, On-Off switch, three-speed fan and summer/winter selector. Temperature range setting from 5 °C to 30 °C. 230 V supply. It has two 230VAC hot water and cold water solenoid outlets and an inlet water temperature sensor.	B0756 B0873
	 B0152 PHASE OUT	Recessed control kit LCD with ambient sensor and thermostat, summer/winter selector and speed switch. Electronic recessed thermostat with ambient sensor, On-Off switch, fan speed selector (min, med, max and auto), ambient temperature, minimum water sensor mode and summer/winter selector. Temperature range setting from 5 °C to 35 °C. 230 V supply.	B0756 B0873
	 B0736	LCD wall clock thermostat remote control kit. Programmable wall LCD thermostat control for MODBUS connection, RS485. Ability to control up to 30 units. Desired temperature selection, operation mode, fan speed, manual/programmable thermostat. Room sensor inserted in control. Backlit LCD. Presence contact input. The control is equipped with a 230/12VAC double insulation power transformer and a buffer battery. Wall installation with center to center distance compatible with standard recessed mounting box 503.	B0828 B0872 
	Addressing for Bticino management and SIOS Control	INDRZ	Mandatory default addressing of remote kits in case of remote management via Modbus connection with SIOS Control, Bticino MYHome and any other system that communicates in Modbus.

	CODE	DESCRIPTION
HYDRAULIC KITS	 B0832	2-way valves unit kit with 4-wire thermoelectric actuator and end run micro switch. Consists of a valve with thermoelectric actuator and holder, the first allows for the control of terminal thermal emissions intercepting water passage; the holder allows the balancing of system load losses. This kit is mandatory in version SLR except in the case of using a 3-way valve kit or in the presence of a collector with thermoelectric heads.
	 B0834	3-way valves unit kit with 4-wire thermoelectric actuator and end run micro switch. Consists of a three-way diverter valve with thermoelectric actuator, and a holder. The first allows the control of terminal thermal emissions intercepting water passage; the holder allows the balancing of system load losses; the by-pass keeps water circulating in the system. This kit is an alternative to the 2-way solenoid valve kit (required in version SLR).
	 B0205	Manual 2-way group valves kit. Consisting of a valve and a holder, the first allows the cabinet to be manually excluded from the system, while the holder allows the balancing of system load losses. Also allowed when solenoid valves on the collector are managed by the control kit of terminal Bi2.
	 B0204	Manual 2-way valve isolation kit. Avoids condensation during the cooling operation (already included in the other thermoelectric hydraulic kits).
	 B0200 B0201	Kit pair adapters. Allows you to transform the Bi2 3/4" Eurocone connection into a standard 1/2" (B0200) or 3/4" (B0201) gas thread connection.
	 B0203	Kit 90° Eurokonus bend Facilitates the connection in case of hydraulic connections with walled pipes.
ELECTRICAL KITS	 B0632 (200) B0632 (400) B0632 (600) B0633 (800) B0633 (1000) B0633 (1400) B0633 (1600)	Extension cord control panel kit Power and motor sensor electric connection cable for installations where connection positions are rotated (from Left to Right).
RECESSED KITS	 B0550 (200), B0551 (400) B0552 (600), B0553 (800), B0554 (1000), B0880 (1400), B0881 (1600) NEW	Ceiling recessed kit: air discharge grid with wing profile.
	 B0559 (200), B0560 (400), B0561 (600), B0562 (800), B0563 (1000), B0882 (1400), B0883 (1600) NEW	Ceiling recessed kit: air suction grid with wing profile.
	 B0194 (200), B0195 (400), B0196 (600), B0197 (800), B0198 (1000), B0888 (1400) B0889 (1600) NEW	Suction kit for false ceiling or plasterboard trapdoor. Channels the air drawn from the suction grille to the cabinet.
	 B0160 (200), B0161 (400), B0162 (600), B0163 (800), B0164 (1000), B0890 (1400), B0891 (1600) NEW	Upper telescopic discharge plenum kit. Channels the air from the cabinet to the discharge grille.
	 B0165 (200), B0166 (400), B0167 (600), B0168 (800), B0169 (1000), B0892 (1400), B0893 (1600) NEW	90° insulated discharge plenum kit. Channels the air from the cabinet to the discharge grille. (non compatible with recessed structure).
	 B0568 (200), B0569 (400), B0570 (600), B0571 (800), B0572 (1000), B0894 (1400), B0894 (1600) NEW	Recessed kit: structure for recessed installation For vertical installation (to be combined with the closing panel)
	 B0578 (200), B0579 (400), B0580 (600), B0581 (800), B0582 (1000), B0582 (1400), B0582 (1600)	Closing panel for recessed structure. For vertical installation (to be combined with the recessed structure kit) White RAL 9010

Ci2 WALL

LGW inverter / LGW Wall S1 inverter



PRO-POWER

Maximum power 3,81 kW in cooling and 3,18 kW in heating mode.

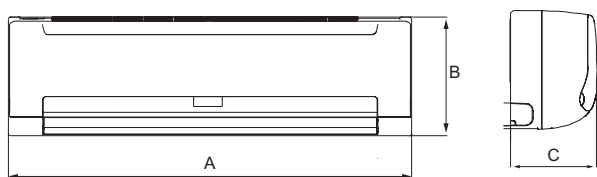


3-WAY VALVE INCLUDED

The terminal is equipped with an integrated 3-way valve for easy installation.

FEATURES

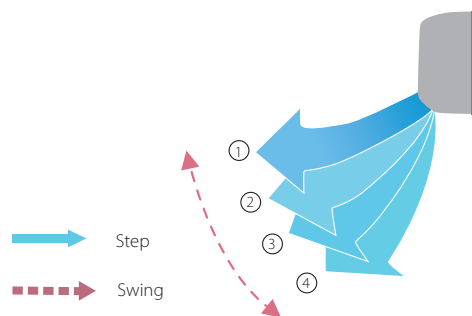
- Air Conditioning, Dehumidifying, Heating and Filtering
- Available in two sizes
- DC brushless motor
- Equipped with a large motorised flap
- Simple installation thanks to the flexible tubes supplied
- Three-way valve
- Remote control and wall-mounting brackets
- Plastic shell
- Removable front panel for easy maintenance
- Contact for external On-Off (presence contact)
- Contact for switching on/off of the external generator with 4-wire valve actuator (only for LGW Wall S1 inverter)
- Minimum sound power only 39dB (A)
- Installation: high-wall



		1200	1400
A	mm	915	915
B	mm	290	290
C	mm	230	230
Net weight	kg	12,7	12,7



Removable front panel for easy maintenance



The motorised flap ensures perfect air distribution in the environment both in heating and cooling

ACCESSORIES

	CODE	DESCRIPTION
REMOTE CONTROL	B0856	- LCD screen
		- Mode control
		- Fan speed control
		- Ambient temperature



MODEL	LGW inverter / LGW Wall S1 inverter									
				1200			1400			
Ci2 Wall with 3-way valves	cod.			99353	PHASE OUT		99354	PHASE OUT		
Ci2 Wall with 3-way valves	cod.			99283	NEW		99284	NEW		
Fan speed				Lower	Middle	High	Lower	Middle	High	
Total power output in cooling mode	a27/19 - w7/12	(a)	(E)	kW	2.39	2.59	2.70	2.88	3.30	3.81
Sensitive power output in cooling mode	a27/19 - w7/12	(a)	(E)	kW	1.85	2.03	2.15	2.31	2.71	3.18
Fluid flow rate	a27/19 - w7/12	(a)		l/h	412.6	447.4	466.5	497.9	571.2	661.0
Water side head loss	a27/19 - w7/12	(a)	(E)	kPa	25.4	28.6	31.6	33.0	41.2	56.8
Total power output in heating mode	a20/15 - w50/-	(b)	(E)	kW	2.63	3.03	3.29	3.77	4.33	5.08
Fluid flow rate	a20/15 - w50/-	(b)		l/h	412.6	447.4	466.5	497.9	571.2	661.0
Water side head loss	a20/15 - w50/-	(b)	(E)	kPa	26.5	30.3	37.5	30.3	37.9	61.9
Total power output in heating mode	a20/15 - w45/40	(c)	(E)	kW	2.58	2.80	2.94	3.09	3.65	4.30
Fluid flow rate	a20/15 - w45/40	(c)		l/h	442.2	479.7	503.6	528.9	624.2	733.9
Water side head loss	a20/15 - w45/40	(c)	(E)	kPa	30.2	34.9	32.7	35.7	47.5	51.9
Absorbed power			(E)	W	9	11	12	15	21	33
Sound Power Lw(A)			(E)	dB(A)	39	42	44	47	51	57
Sound pressure Lp (A)		(d)		dB(A)	30	33	35	38	42	48
Air flow		(f)		m3/h	400	454	492	590	689	825
Battery water content				l		0.5			0.5	
Maximum operating pressure				bar		16			16	
Hydraulic fittings				inches	Eurocone 3/4 F			Eurocone 3/4 F		
Electrical power supply				V/ph/Hz	220-240/1/50			220-240/1/50		
Max static heating efficiency (50°C)				kW	-			-		
Max static heating efficiency (70°C)				kW	-			-		
Water content of the radiant panel				l	-			-		

The above services refer to the following operating conditions:

(a) Cooling mode at standard conditions: air temperature 27°C b.s., 19°C b.u., water inlet temperature 7°C, water outlet temperature 12°C

(b) Heating mode conditions of use 1: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 50°C, water flow equal to the cooling water standard condition

(c) Heating mode standard conditions: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 45°C, water outlet temperature 40°C

(d) Sound pressure level valid for closed rooms with a volume of 100 m3 with a reverberation time of 0.5 s and installation on the floor/ceiling, sound emission on 1/4 sphere at 3 m distance

(E) Eurovent certified data

(f) Air flow rate measured with clean filters





CONTROLLED MECHANICAL VENTILATION

Decentralized systems for
home air treatment



Indoor air quality. The importance of the introduction of outdoor air

Controlled Mechanical Ventilation: many advantages for indoor comfort

The most authoritative exponents of the scientific community agree on the importance of the introduction of outdoor air indoors, to increase the quality of indoor air. The greater the quantity of external air introduced into closed environments, the lower the concentration of pollutants and pathogens.

A change of air carried out through the opening of the windows may not always be possible (for example in summer and winter) or sufficient: the quantity of air introduced is in fact not controllable or its uniform distribution. If there are Controlled Mechanical Ventilation systems, the experts therefore recommend activating their continuous operation (7/7 days and H24) and increasing the exchange flow rate as much as possible.





Sitali: decentralised systems with high efficiency and comfort

Ease of installation

By choosing a decentralised system such as Sitali, it is possible to easily integrate Controlled Mechanical Ventilation within an existing building, without invasive interventions.

Heat efficiency and recovery

Sitali units are equipped with EC brushless motors, with significantly reduced energy consumption. In addition, Sitali SF 150 S1 limits the need to solicit heating, as the external air is preheated before being introduced into the interior and the individual units can be synchronised, for a correct system balance.

Silent system

Sitali units are optimised for continuous 24/7 operation, in maximum acoustic comfort.

CMV Range

SINGLE ALTERNATE FLOW	SINGLE CONTINUOUS FLOW
<p>PAGE 132</p> <p>Sitali SF 150 S1 (99299) Decentralised Controlled Mechanical Ventilation with alternate single flow and heat recovery</p> 	<p>PAGE 133</p> <p>Sitali SFE 100 (99422) Decentralised Controlled Mechanical Ventilation with continuous single flow</p> 

ACCESSORIES	
<p>Kit Sitali SFE 100 (B0837) Pipe</p>	
<p>Kit Sitali SFE 100 (B0838) Grille</p>	

SITALI SF 150 S1

Decentralized Controlled Mechanical Ventilation with alternate single flow and heat recovery



Compatible with:
SIOS
CONTROL



SILENT FUNCTION

The most silent: only **10 -dB (A)** Optimized for continuous 24/24h operation.



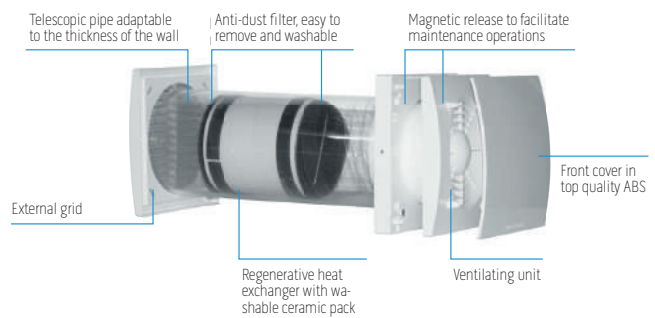
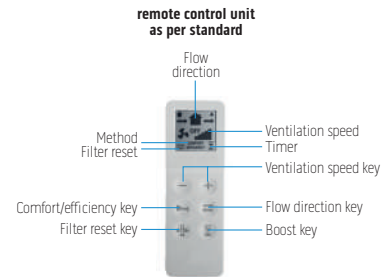
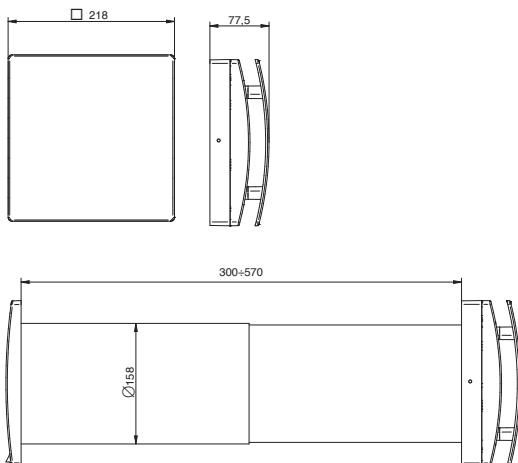
INTELLIGENT FUNCTION

Thanks to the presence of the temperature detection probe, the air flow inversion time is self-adjusted to allow the best comfort indoors.



MAGNETIC FUNCTION

Quick release via magnets for easy maintenance without the need for specialized staff.



FEATURES

- Temperature probe that adjusts the air flow inversion times to maintain the indoor comfort level
- Energy class: **A**
- EC brushless motor
- Integrated humidity sensor
- Easy maintenance, indoor magnetic release
- Infra-red remote control with LCD
- Double filter on the inner/outer side of the exchanger
- Multicolor LED indicator
- 5 ventilation speeds available
- Magnetic wall support for remote control

TECHNICAL DATA	SF 150 S1
Product code	99299
Hole diameter mm	160
Energy class	A
Air volume m ³ /h	60/50/40/30/20
Sound level* db(A)	29/24/20/14/10
Absorption W	6/4,5/3,5/2,5/2
Max. thermal	82%
Max room temperature °C	-20°C +50°C
Weight	5,5 kg
Protection level IP	IPX4
M2 treated**	20 m ²

-220-240 V ~ 50-60Hz aeratic performance measured according to ISO 5801 at 230V 50Hz, air density 1.2 Kg/m³ - data measured in TÜV Rheinland accredited laboratory
* sound pressure level at 3m in free field
**Maximum treated area for residential buildings (regulatory reference standard UNI 10339:1995) considering a room height of 2.7 m.

SITALI SFE 100

Decentralized Controlled Mechanical Ventilation with continuous single flow.



Compatible with:



SILENT FUNCTION

The most silent: only 11 dB (A) Optimized for continuous 24/24h operation.



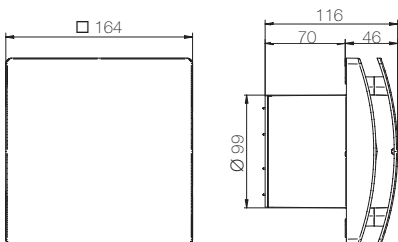
AIR EXCHANGE

Decentralized CMV unit with continuous single flow, $\varnothing 100 \text{ mm}$, with very low energy consumption, for replacing stale air in the humid environments with maximum acoustic comfort. Ideal for preventing problems of condensate and mould, which inevitably damage the structure and compromise the health of the occupants.



HUMIDITY DETECTION

The unit is fitted with a humidity detection sensor, adjustable from 50% to 95% R.H. and a timer; this can be adjusted from 0 to approx. 30 minutes. The unit operates continuously at the minimum speed selected, which increases automatically to the average speed when the R.H. percentage exceeds the threshold set.



FEATURES

- Top quality ABS structure
- High-efficiency aerodynamic fan
- EC brushless motor with thermal protection
- Integrated humidity sensor
- Elegant design with minimalist lines
- Front cover; easy to remove for cleaning, without the use of tools
- Aerodynamic deflectors
- Very low energy consumption
- 4 ventilation speeds available

TECHNICAL DATA	SFE 100
Product code	99422
Hole diameter mm	100 (110 con tubo telescopico)
Air volume m ³ /h	83 / 47 / 29 / 21
Absorption W	2,5 / 1,7 / 1,2 / 1
Sound level* db(A)	26 / 23 / 13 / 11
Max room temperature °C	50
Protection level IP	IPX4
Weight	0,6 kg
M2 treated**	7 m ²

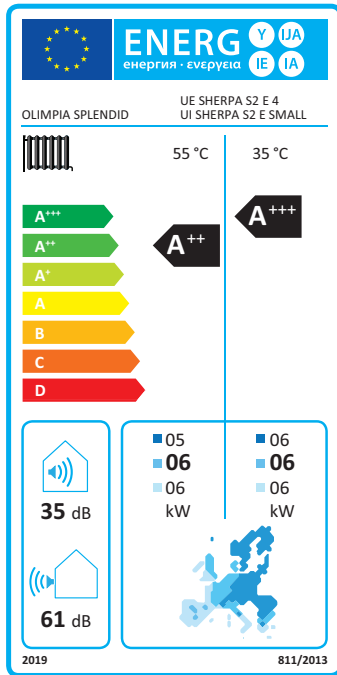
-220-240 V ~ 50-60Hz aeraulic performance measured according to ISO 5801 at 230V 50Hz, air density 1.2 Kg/m³ - data measured in TÜV Rheinland accredited laboratory

* sound pressure level at 3m in free field

**Maximum treated area for residential buildings (regulatory reference standard UNI 10339:1995) considering a room height of 2.7 m.

Energy Label

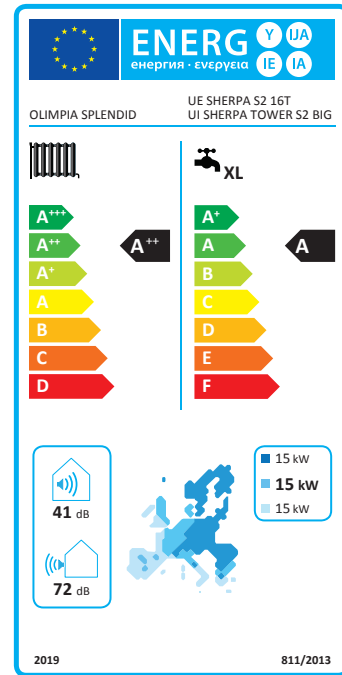
AIR WATER HEAT PUMPS



Energy efficiency class from **A+++** to **D**

Reference regulation for air water heat pump:
EUROPEAN REGULATION (UE) N. 811/2013

AIR WATER HEAT PUMPS WITH INTEGRATED STORAGE TANK

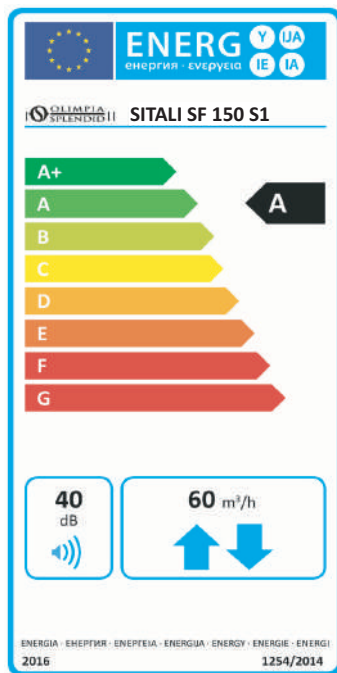


Energy efficiency class from **A+++** to **D**

Energy efficiency class storage tank from **A+** to **F**

Reference regulation for air water heat pump
with integrated storage tank:
EUROPEAN REGULATION (UE) N. 811/2013

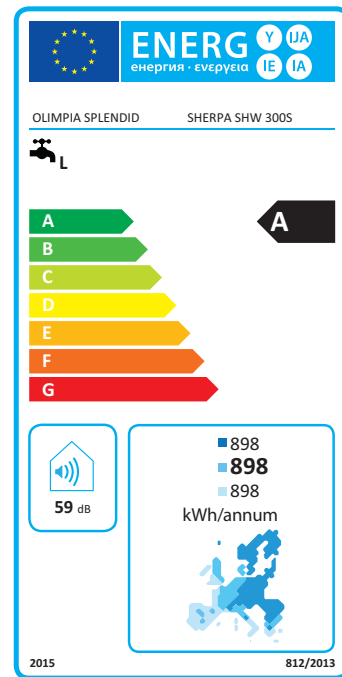
MECHANICAL VENTILATION WITH HEAT RECOVERY



Energy efficiency class from **A+** to **G**

Reference regulation for mechanical ventilation
with heat recovery:
EUROPEAN REGULATION (UE) N. 1254/2014

WATER HEATER HEAT PUMP



Energy efficiency class from **A** to **G**

Reference regulation for water heater heat pump:
EUROPEAN REGULATION (UE) N. 812/2013

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