

NEW

SHERPA MONOBLOC® S1 E



NEW Air-water heat pump MONOBLOC with R32 refrigerant GAS



COP > 4

DHW 60°C

Energy class: 35°

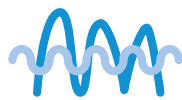
A++ A+++

55° A++

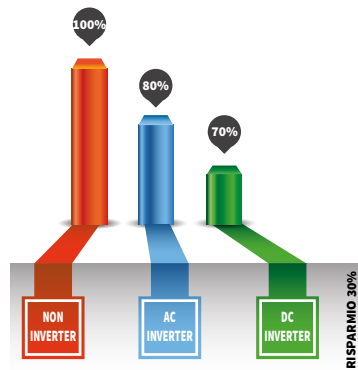


RENEWABLE TECHNOLOGIES

Sherpa uses the heat in the air, and transfers it to system terminals in an efficient manner. For each kW of electricity consumed, Sherpa is able to produce over 4 of thermal energy. This means that 75% of energy is free, renewable and clean.



OLIMPIA SPLENDID'S INVERTER DC TECHNOLOGY



R32 COOLANT GAS

Low-environmental impact gas coolant, GWP of 675..



COMPACT TECHNOLOGY

The engineering of components has made it possible to insert a 3-way valve for the management of Domestic Hot Water. The reduced size allow installation inside a kitchen cabinet.



TOUCH SCREEN REMOTE CONTROL PANEL

Touch screen remote control panel as standard, with an 8m connection cable. Configured for managing the machine via smartphones and tablets.



Touch screen remote control panel (standard)

FUNCTIONS

- Management of 3-way valve switch for the production of domestic hot water.
- Management of 2-way on/off valve for the interception of one part of the system.
- Management of auxiliary or supplementary heat source.
- Quick domestic hot water heating function
- Anti-Legionella cycle function, programmable with activation timer.
- Operation in programmable silent mode with timer.
- Holiday mode and antifreeze function.
- Weather Dependent Mode Function (Climatic adjustment)
- Management of the ambient's thermostat, as an alternative to the touch screen panel.

CHARACTERISTICS

- **DHW production:** up to 60°C
- **Compressor:** airtight twin rotary DC Inverter with steam injection, complete with thermal protection
- **Expansion valve:** electronic.
- **Cooling circuit** with economiser.
- **Water-side heat exchanger battery:** stainless steel plates, complete with antifreeze resistance.
- **Air-side heat exchanger battery:** finned battery with copper tubes and aluminium-manganese fins with Golden Fin anti-corrosion treatment, in epoxy resin and with hydrophilic treatment.
- **Helical fan** with DC brushless engines equipped with internal thermal protection, safety protection grilles and proportional electronic device for continuous regulation of the rotation speed of the fans.
- **Remote ambient air temperature probe**, for management of the unit on the ambient set-point.
- **Structure:** in galvanised steel sheet, complete with condensate tray and antifreeze resistance base unit.
- **R32 Coolant gas.**
- **Operational limits:** -25°C +48°C.

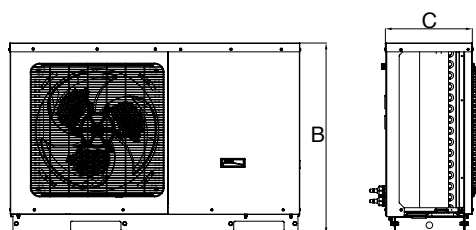


- 1 Reversible gas circuit
- 2 Electrical panel
- 3 Flow switch
- 4 DC inverter rotary compressor
- 5 Plate heat exchanger
- 6 Variable range circulator
- 7 Expansion valve (2 or 3 litres)

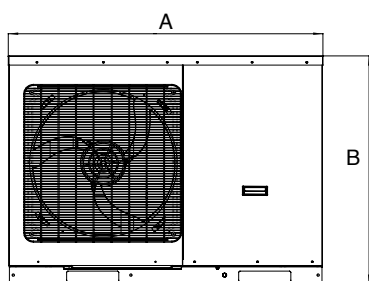
SHERPA MONOBLOC® S1 E

		MONOBLOC S1 E 6	MONOBLOC S1 E 8	MONOBLOC S1 E 12	MONOBLOC S1 E 12T	MONOBLOC S1 E 16	MONOBLOC S1 E 16T
Outdoor Unit	Cod.	02021	02022	02023	02024	02025	02026
Refrigerant/water exchanger		Brazed plates	Brazed plates	Brazed plates	Brazed plates	Brazed plates	Brazed plates
Heating capacity (a)	kW	6,00	7,50	12,00	12,00	15,50	15,50
COP (a)	W/W	5,00	4,60	4,55	4,55	4,31	4,31
Heating capacity (b)	kW	6,00	7,50	12,00	12,00	15,50	15,50
COP (b)	W/W	3,85	3,75	3,45	3,45	3,30	3,30
Cooling capacity (c)	kW	5,80	6,80	11,00	11,00	14,50	14,50
EER (c)	W/W	4,40	4,39	4,30	4,30	3,80	3,80
Cooling capacity (d)	kW	4,00	5,00	9,50	9,50	13,00	13,00
EER (d)	W/W	3,10	3,03	3,05	3,05	2,75	2,75
Energy efficiency class heating mode 35°/55 °C		A++ A+++	A++ A+++	A++ A+++	A++ A+++	A++ A+++	A++ A+++
Sound pressure heating mode (e)	dB(A)	56	56	57	57	57	57
Sound power heating mode (e)	dB(A)	64	65	69	69	72	72
Sound pressure cooling mode (f)	dB(A)	54	54	55	55	55	55
Sound power cooling mode (f)	dB(A)	66	67	70	70	73	73
Capacity of expansion vessel	l	2	2	3	3	3	3
Power supply	V/ph/ Hz	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50
Maximum current absorption	A	10	10	19	12	19	12
Hydraulic connections	"	1	1	1	1	1	1
Refrigerant gas (g)		R32	R32	R32	R32	R32	R32
Refrigerant gas charge	Kg	0,87	0,87	2,2	2,2	2,2	2,2

- (a) Heating mode, inlet/outlet water temperature 30°C / 35°C, outdoor air temperature 7°C b.s. / 6°C b.u.
 (b) Heating mode, inlet/outlet water temperature 40°C / 45°C, outdoor air temperature 7°C b.s. / 6°C b.u.
 (c) Heating mode, inlet/outlet water temperature 23°C / 18°C, outdoor air temperature 35°C
 (d) Cooling mode, inlet/outlet water temperature 12°C / 7°C, outdoor air temperature 35°C
 (e) Heating modes: input/output temp. of the water from the coolant-water exchanger at 47° C/55°C, with incoming air in the coolant-air exchanger at 7°C d.b./6°C w.b.
 (f) Cooling mode: temp. inlet / outlet water from the evaporator 12/7 ° C, air entering the condenser at 35 ° C
 (g) Equipment hermetically sealed containing fluorinated gases with an equivalent GWP of 675



Outdoor unit 6-8



Outdoor unit 12-16-12T-16T

OUTDOOR
UNIT

		MONOBLOC S1 E 6	MONOBLOC S1 E 8	MONOBLOC S1 E 12	MONOBLOC S1 E 12T	MONOBLOC S1 E 16	MONOBLOC S1 E 16T
		MONO-VENT					
A	mm	1150	1150	1200	1200	1200	1200
B	mm	758	758	878	878	878	878
C	mm	345	345	460	460	460	460
Gross weight	Kg	109	109	166	166	166	166
Net weight	Kg	96	96	151	151	151	151

Code B0622 - 3-WAY VALVE KIT FOR DOMESTIC HOT WATER.

- Compact size
- Two point control

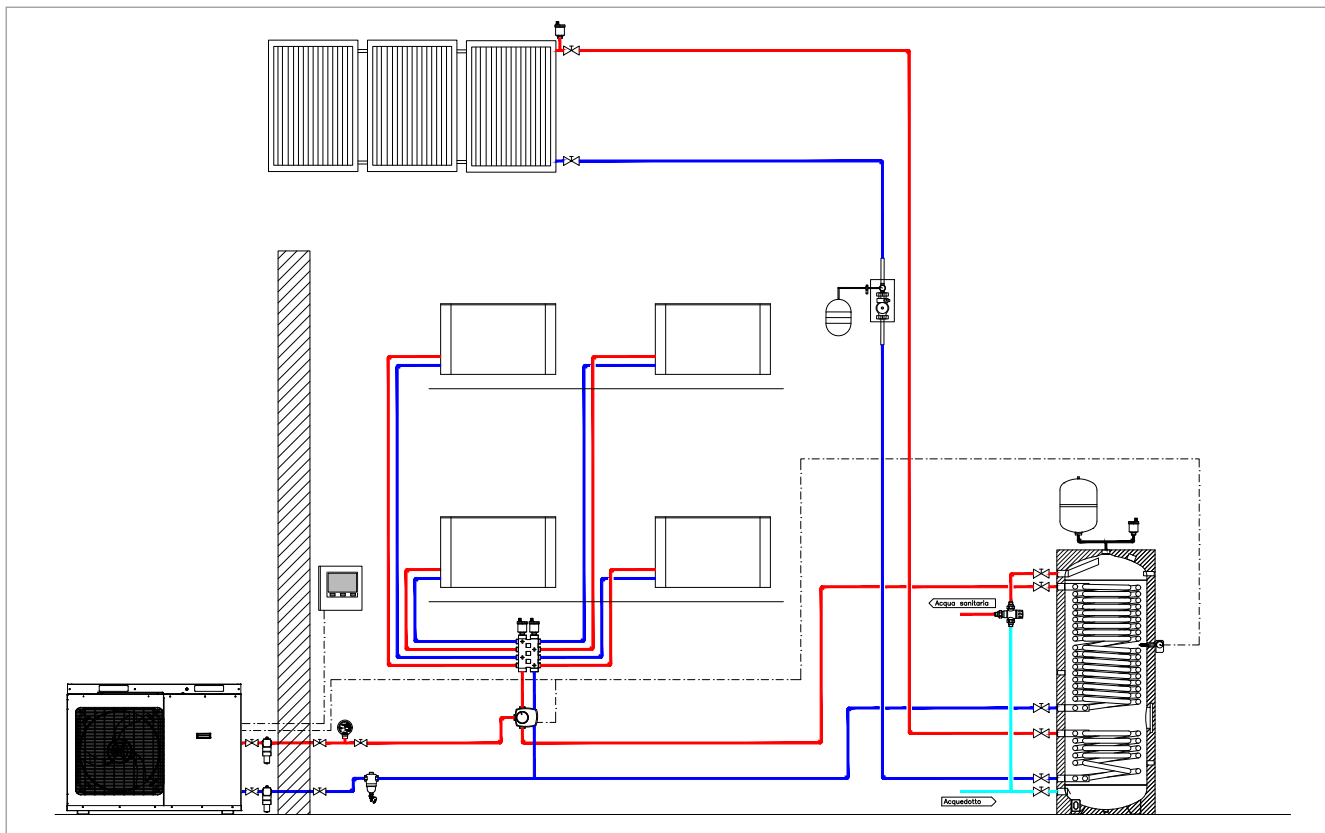
Cod. B0866 - 20M EXTENSION CORD CONTROL PANEL KIT (ADDITIONAL)

20 metre extension cord for control panel connection with the external unit (8m as standard)

PLANT LAYOUTS

SHERPA MONOBLOC S1 E

SHERPA MONOBLOC S1 E heat pump (heating and cooling; high-temperature DHW production); fan coil terminals Bi2 SLR; DHW integration with solar thermal system.



SHERPA MONOBLOC S1 E heat pump (heating and cooling; high-temperature DHW production); fan coil terminals Bi2 SLR; DHW integration with solar thermal system and integrated inertial storage tank for the cooling plant.

