

SHERPA MONOBLOC[®]

Air-water heat pump **MONOBLOC**



COP > 4

DHW 60°C

Energy class ErP⁽¹⁾: **A+ > A++**



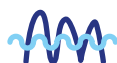
RENEWABLE TECHNOLOGIES

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.

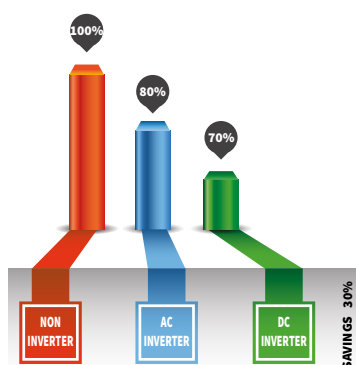


COMPACT TECHNOLOGY

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.



OLIMPIA SPLENDID'S INVERTER DC TECHNOLOGY



SMART CONTROL

The control is extremely flexible and the following interfaces can be used:

- 1- The programmable thermostat with easy-to-read liquid crystal display. It contains the most advanced functions for controlling the various types of heat pump systems. The operating logic considers the climatic season and the heat load required and consequently adjusts the frequency of the motor on the basis of the difference between outdoor environment temperature and water flow temperature.
- 2- The remote control
- 3- Potential-free contacts

(1) Seasonal energy efficiency class for average climatic area for flow temperature of 55°C; varies according to the model selected



FEATURES

Provides DHW with temperatures up to 60 °C

Climatic curves based on outside air temperature: two for cooling and twelve for heating or it's possible to add the customized climatic curves. The climatic curves allow you to change the system temperature according with external climate conditions, adjusting the heat input to the heat requirements of the building in order to obtain energy savings.

Two configurable set points in cooling, **Two configurable set points** in heating.

Anti-freeze protection: managed by the software.

Daily programmer with night mode: Night mode provides energy savings of up to 20%. Complete management of antilegionella cycles.

Remote control panel with possibility of environment temperature and humidity control.

Refrigerant gas R410A.*

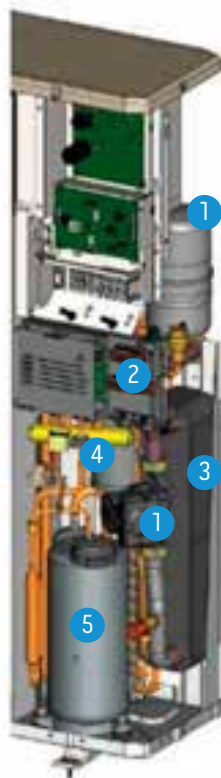
CONTROLS



Programmable thermostat
(included as per standard)



Remote control
(additional Code B0812)



- 1 Hydronic module (as per standard):
 - variable displacement pump
 - expansion vessel (2 or 3 litre)
 - automatic venting and safety valve
 - 2 Electric control board
 - 3 Plate heat exchanger
 - 4 Reversible gas circuit (4-way valve)
 - 5 Twin-Rotary Inverter DC compressor
- External air sensor probe

* Non hermetically sealed equipment containing fluorinated gas with GWP equivalent 2088

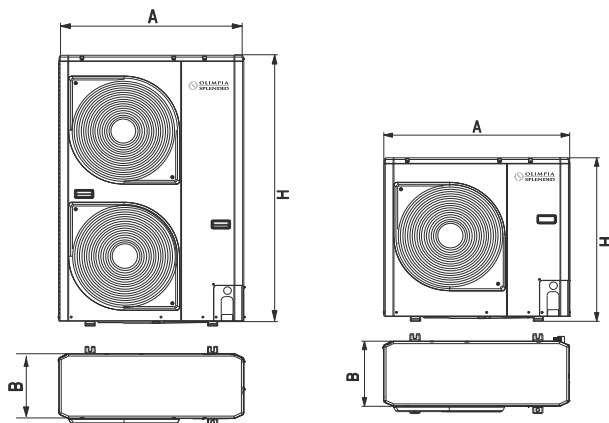
SHERPA MONOBLOC[®]

		MONOBLOC 4	MONOBLOC 6	MONOBLOC 8	MONOBLOC 12	MONOBLOC 15	MONOBLOC 12T	MONOBLOC 15T
External unit	Code	01674	01675	01676	01677	01678	01679	01680
Heating capacity (a)	kW	4,07	5,76	7,16	11,86	14,46	12	15
COP	W/W	4,15	4,28	3,97	3,95	4,09	4,3	4,2
Heating capacity (b)	kW	2,80	3,75	4,36	7,83	8,92	7,68	8,49
COP	W/W	2,60	2,77	2,81	2,85	2,81	2,82	2,75
Heating capacity (c)	kW	3,87	5,76	7,36	12,91	13,96	11,20	14,50
COP	W/W	3,26	3,05	3,19	3,03	3,23	3,35	3,30
Heating capacity (d)	kW	2,70	3,76	4,45	7,43	8,98	6,23	8,40
COP	W/W	2,40	2,31	2,34	2,31	2,34	2,39	2,39
Cooling capacity (e)	kW	4,93	7,04	7,84	13,54	16,04	13,50	16
EER	W/W	4,20	3,70	3,99	3,66	3,85	4,15	3,81
Cooling capacity (f)	kW	3,33	4,73	5,84	10,24	13,04	10,20	13,00
EER	W/W	3,02	3,00	2,98	2,96	2,95	3,00	2,91
Energy efficiency class (55°C)		A++	A++	A+	A+	A++	A++	A++
Sound pressure heating mode (g)	dB(A)	42	42	44	47	48	48	48
Sound power level heating mode (g)	dB(A)	62	62	64	67	68	68	68
Sound pressure cooling mode (h)	dB(A)	44	44	45	48	49	49	49
Sound power level cooling mode (h)	dB(A)	64	64	65	68	69	69	69
Evaporator type		Brazed plates	Brazed plates	Brazed plates	Brazed plates	Brazed plates	Brazed plates	Brazed plates
CIRCULATION PUMP								
Water circulation pump		Variable speed pump						
Residual available pressure	kPa	65	65	66	76	66	76	66
Expansion tank capacity	l	2	2	2	3	3	3	3
Internal unit power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	400/3/50	400/3/50
Corrente massima assorbita	A	9	11	14,5	20,7	22,6	11,1	11,1
Hydraulic connections		1"	1"	1"	1"	1"	1"	1"
Refrigerant gas	type	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Global warming potential	GWP	2088	2088	2088	2088	2088	2088	2088
Refrigerant gas charge (i)	Kg	1,195	1,35	1,81	2,45	3,385	2,45	3,385

(a) Water outlet temperature 35°C / External air temperature 7°C
 (b) Water outlet temperature 35°C / External air temperature -3°C
 (c) Water outlet temperature 45°C / External air temperature 7°C
 (d) Water outlet temperature 45°C / External air temperature -3°C
 (e) Water outlet temperature 18°C / External air temperature 35°C

(f) Water outlet temperature 7°C / External air temperature 35°C
 (g) Heating method: water inlet/outlet temp. from the refrigerant exchanger - water at 47°C/55°C, with entries into the refrigerant exchanger - air at 7°C db/6°C wb and at a fouling factor of the evaporator equal to 0 m² kW.
 (h) Cooling method: water inlet/outlet temp. from the evaporator 12°C/7°C, air entering the condenser at 35°C and at a fouling factor of the evaporator equal to 0 m² kW.
 (i) The weights are to be considered as guidelines. Refer to the unit plates.

EXTERNAL UNIT



EXTERNAL UNIT		MONOBLOC 4	MONOBLOC 6	MONOBLOC 8	MONOBLOC 12	MONOBLOC 15	MONOBLOC 12T	MONOBLOC 15T
		MONO-VENT			DOUBLE VENT			
A	mm	908	908	908	908	908	908	908
B	mm	350	350	350	350	350	350	350
H	mm	821	821	821	1363	1363	1363	1363
Peso	Kg	57	61	69	104	112	116	116

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

- Compact size
- Two point control

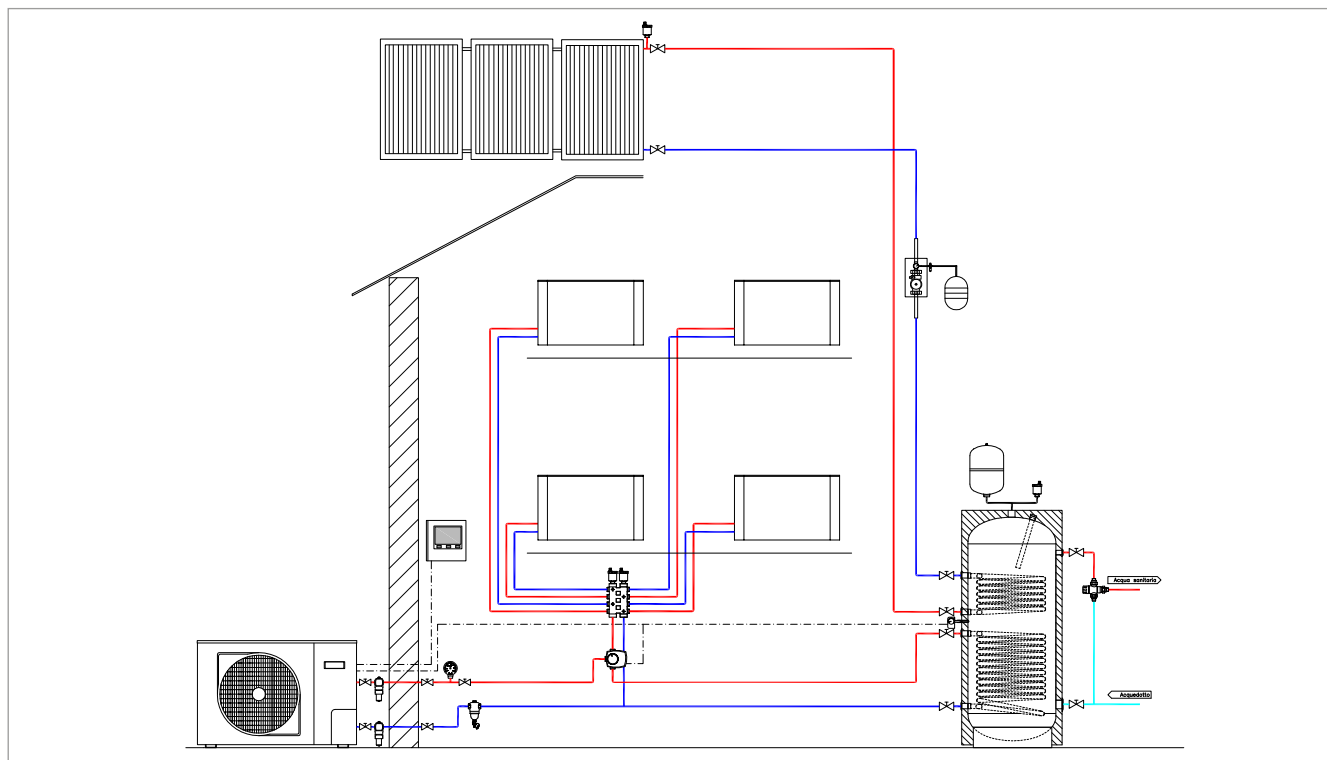
Code B0814 - OUTDOOR AIR SENSOR KIT (Optional)












Sensor screen for measuring ambient air temperature. The sensor is necessary to enable electrical resistors activation and climatic curves.

Code B0812 - REMOTE CONTROL KIT (Optional)

Remote control.

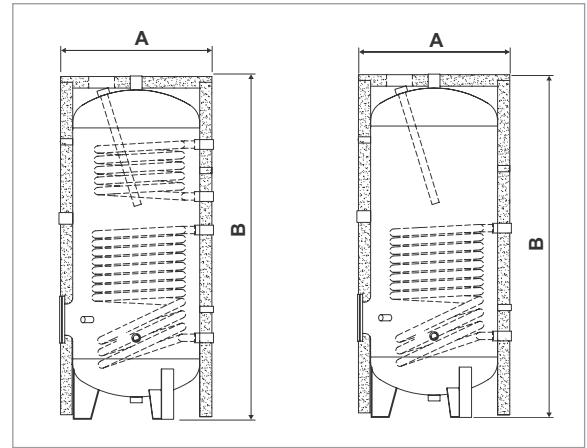
SHERPA MONOBLOC Heat Pump (Heating and Cooling); DHW production Optional; Radiator fan coils terminals Bi2 SLR: integration of DHW production with solar exchange



- | | | |
|--|--|---|
|  Manometer |  Water temperature sensor |  Dirt separator filter |
|  Thermostatic mixer |  Off valve |  Antifreeze valve |
|  Automatic air vent |  Diverter valve |  Immersion thermostat |
|  Expansion vessel |  Air temperature sensor | |

BOILERS FOR DOMESTIC HOT WATER.

- Rigid polyurethane coating
- Available in double coil performance
- Enameled steel
- Sacrificial anode
- External finish in sky
- Sensor holder shaft



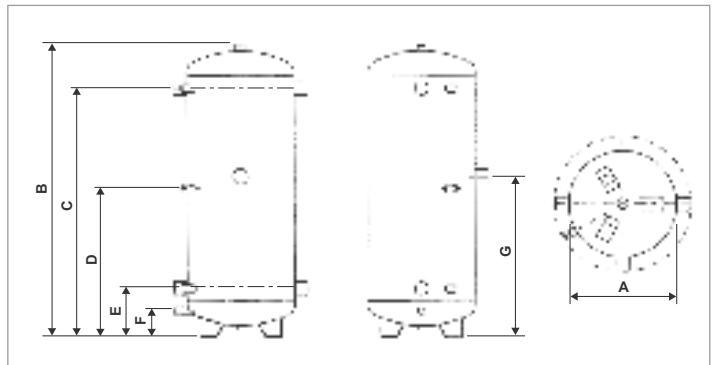
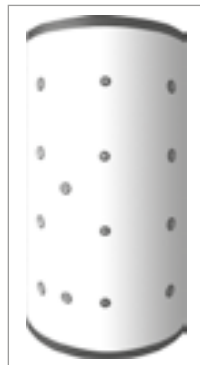
FEATURES	Single exchanger			Double exchanger			
	Code	01193	01194	01195	01196	01197	01198
Water volume	lt	200	300	500	200	300	500
Max. water temperature	°C	85					
Height (tot. with isolation)	mm (B)	1215	1615	1690	1215	1615	1690
Diameter (tot. With isolation)	mm (A)	600		750	600		750
Exchanger measurement	m ²	1,5	1,8	2,2	1,5/0,5	1,8/1,1	2,2/1,3
Serpentine		single	single	single	double	double	double
Material outer		Casing rigid polyurethane covering 50 mm					
Color		blu					
Weight	kg	85	110	150	90	125	165
Energy efficiency class	ERP	C	C	D	C	C	D

Code	DESCRIPTION
B0617	Flange resistance kit
B0618*	Resistance for boiler 2 kW (for boiler up to 300 l)
B0666*	Resistance for boiler 3 kW (for boiler from 500 l)

On each model you can add an electric immersion resistor, which is supplied as a kit complete with a removable flange.
(*) Optional, to be ordered as a separate kit complete with flange

PUFFER INERTIAL TANK.

- They guarantee system inertia and minimize inverter compressor frequency variations to the lowest level.
- Minimum content advised for water in the system: 3.5 liters for each kW of installed power.
- Tanks made of carbon steel coated in rigid polyurethane 50mm thick and finished in sky blue.
- Maximum water temperature 85 ° C.



	Code	01199	01200	01201
Water volume lt	lt	50	100	200
Weight kg	kg	25	34	45
A (diameter without insulation) mm	mm	300	400	450
A1 (total external diameter) mm	mm	400	500	550
B (total height)	mm	933	1095	1395
C	mm	785	935	1200
D	mm	485	560	705
E	mm	180	185	215
F	mm	100	100	105
G	mm	530	605	750
Energy efficiency class	ERP	B	B	C