SHERPA SHW S2

Water heater in heat pump

HIGH EFFICIENCY

Sherpa SHW S2 achieves the highest energy class in its category (according to the ErP regulation).

PHOTOVOLTAIC INTEGRATION

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

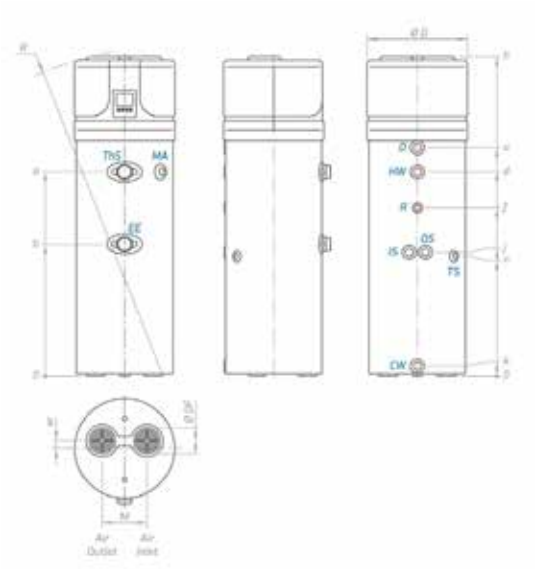
SOLAR MANAGEMENT

Solar thermal compatible: the unit can work with a second energy source such as solar panels (solar circulator management). Valid only for model 360S.

FEATURES

- **Available in two versions:** standard model with heat pump, electric heating element and 202-litre tank (Sherpa SHW S2 200); model with coil for solar panels or other energy sources, electric heating element and 251-litre tank (Sherpa SHW S2 260S).
- **COP>2,6* DHW at 65°C (75°C with electric heating element)**
- **Energy class**: A+
- **Working range** with heat pump and air temperature from -10C° to 43C°.
- **Enamelled** steel tank.
- **Anti-corrosion magnesium anode** to ensure tank durability.
- **Condenser wound outside** the boiler free from deposits and gas-water contamination.
- **Rigid polyurethane** foam (PU) thermal insulation, thickness 50mm.
- **External plastic cladding.** Soundproof plastic top cover.
- **High-efficiency compressor** with R134a refrigerant**.
- **Electric heating element** available in the unit as back-up which ensures hot water at a constant temperature even in extreme winter or summer conditions.
- **ON-OFF contact** to start the unit via an external switch.
- **Weekly sanitisation cycle.**
- **Option to manage the** domestic hot water recirculation or solar heating integration. Valid only for model 260S
- **Electronic expansion valve** for a timely check.

* Ambient air temperature 7°C b.s./6°C b.u., water temperature from 10°C to 55°C (EN 16147).
** hermetically sealed equipment containing fluorinated gas with GWP equivalent 1430.



		200	260S
h	mm	1720	2010
a	mm	994	1285
b	mm	724	834
d	mm	995	1285
f	mm	803	1064
i	mm	-	781
k	mm	60	60
n	mm	-	766
u	mm	1153	1440
w	mm	58	58
M	mm	260	260
ØDF	mm	160	160
R	mm	1785	2055
ØD	mm	630	630

CW - Cold water inlet G 1"
HW - Hot water outlet G 1"
IS - Heat exchanger inlet G 1"
OS - Heat exchanger outlet G 1"
R - Recirculation G ¾"
TS - Temperature probe G ½"
EE - Opening for electric heating element G 1 ½"
CD - Condensation drain G ¾"
9. 1" Solar energy return
10. 1" domestic cold water inlet
11. Condensation drain Ø 16

TECHNICAL DATA		SHERPA SHW S2 200	SHERPA SHW S2 260S
		02385	02386
Electrical power supply	V/Ph/Hz	220-240/1Ph+N/50	220-240/1Ph+N/50
Actual tank capacity	L	202	251
Prated nominal heating power (EN 16147: 2017 - A7/W55)	W	1050	1200
Maximum heating power (summer conditions)	W	2305	2305
COPDHW (EN 16147: 2017 - A7/W55)	W/W	2.7	3
COPDHW (EN 16147: 2017 - A14/W55)	W/W	3.1	3.4
Maximum electrical absorption with active electric heating element	W	663+1500	663+1500
Heating time (EN 16147: 2017 - A7/W55)	h:min	08:59	10:15
Heating time in BOOST mode (A7 - W10-55)	h:min	03:47	04:21
Intake air temperature range	°C	-10 ÷ 43	-10 ÷ 43
Refrigerant gas (a)		R134a	R134a
Refrigerant loading	g	880	880
Nominal air flow rate (98 Pa)	m3/h	315	315
Storage tank maximum operating pressure	bar	8	8
Auxiliary electric heating element	W	1500	1500
Solar exchange coil surface	m²	-	1.2
Protection class		IPX4	IPX4
Transportation weight	Kg	105	128
Sound pressure (EN 12102:2013)	dB(A)	53	53
Load Profile (EN 16147: 2017)		L	XL
Energy efficiency class (average climate conditions)		A+	A+
ηWH (average climate conditions - EU Regulation 812/2013)	%	118	124

(a) hermetically sealed equipment containing fluorinated gas with GWP equivalent 1430.