

AIR-TO-WATER HEAT PUMPS

SHERPA SHW

[S2]

Size	200, 260S
Energy class	A+
Type	water heater
Refrigerant	R134A, R513A
DHW Temperature	65°C



Photovoltaic integration

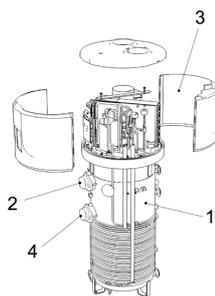
Thanks to the special contact, integration with the photovoltaic system is possible, which forces the ignition and raises the set point of the machine. Thus, the storage of the energy produced by the PV is realized to cut down the cost of DHW production and maximize energy saving.

Solar management

The 260S version is solar thermal compatible: the unit can work with a second energy source such as solar panels (solar circulator management).

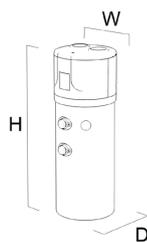


LAYOUT



- 1. Enamelled steel tank
- 2. Magnesium anti-corrosion anode to ensure tank durability
- 3. Acoustically insulated top cover
- 4. 1.5 kW electric heating element available as back-up
 - Electronic expansion valve

DIMENSIONS AND WEIGHT



		200	260S
W	mm	630	630
H	mm	1720	2010
D	mm	630	630
WEIGHT	kg	105	128

TECHNICAL DATA

TECHNICAL DATA	200			260S			
	Product code	02385			02386		
Compressor frequency		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
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			R513a		
Global warming potential	GWP	1430			573		
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

Energy efficiency classes refer to a range between A+ and F.

AIR-TO-WATER HEAT PUMPS

SHERPA SHW

[S3P]



Size	100, 200, 300S
Energy class	A+
Type	water heater
Refrigerant	R290
DHW Temperature	75°C



Refrigeration circuit at R290

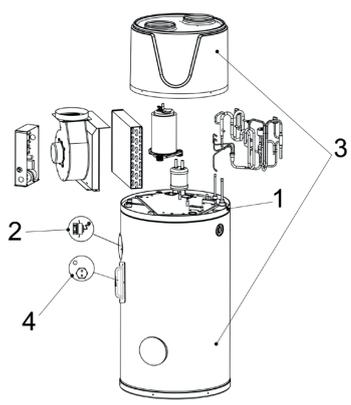
It allows DHW to be produced efficiently and with a GWP close to zero, reaching temperatures of up to 75°C, even without heating elements, where conditions permit (heating elements are integrated as standard, however, to ensure the same performance even under limiting operating conditions).

Photovoltaic integration

Thanks to the special contact, integration with the photovoltaic system is possible, which forces the ignition and raises the set point of the machine. Thus, the storage of the energy produced by the PV is realized to cut down the cost of DHW production and maximize energy saving.

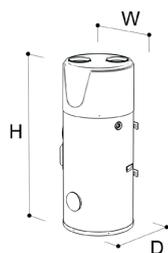


LAYOUT



1. Enamelled steel tank (size 100) and stainless steel tank (sizes 200 and 300S)
 2. Electronic anode to ensure tank durability
 3. Painted metal coating with acoustically insulated plastic top cover
 4. 1.6 kW electric heating element available as back-up
- Micro-channel condenser to avoid gas-water contamination
 - Auxiliary coil for solar thermal integration
 - Electronic expansion valve

DIMENSIONS AND WEIGHT



		100	200	300S
W	mm	510	565	647
H	mm	1230	1750	1850
D	mm	510	565	647
WEIGHT	kg	59	72	87

TECHNICAL DATA		100 NEW			200 NEW			300S NEW		
		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
Product code		02676			02677			02678		
Compressor frequency										
Electrical power supply	V/Ph/Hz	220-240/1/50			220-240/1/50			220-240/1/50		
Actual tank capacity	L	95			178			273		
Prated nominal heating power (EN 16147: 2017 - A7/W55)	W	286			358			365		
Maximum heating power (summer conditions)	W	500			700			700		
COP DHW (EN 16147: 2017 - A7/W55)	W/W	2,6			3,4			3,4		
COP DHW (EN 16147: 2017 - A14/W55)	W/W	3,0			3,8			3,9		
Maximum electrical absorption with active electric heating element	W	500+1600			700+1600			700+1600		
Heating time (EN 16147: 2017 - A7/W51)	h:min	4:18			6:20			9:52		
Heating time in BOOST mode (A7 - W10-51)	h:min	1:30			2:56			3:54		
Intake air temperature range	°C	-7*43			-7*43			-7*43		
Refrigerant gas	(a)	R290			R290			R290		
Global warming potential		3			3			3		
Refrigerant loading	g	145			150			150		
Nominal air flow rate (0/90/120 Pa)	m3/h	182/240/293			182/293/350			182/293/350		
Storage tank maximum operating pressure	bar	8			8			8		
Auxiliary electric heating element	W	1600			1600			1600		
Solar exchange coil surface	m²	-			-			1		
Protection class		IPX1			IPX1			IPX1		
Transportation weight	Kg	72			86			105		
Sound pressure (EN 12102:2013)	dB(A)	50			52			52		
Load Profile (EN 16147: 2017)		M			L			XL		
Energy efficiency class (average climate conditions)		A+			A+			A+		
ηWH (average climate conditions (EU Regulation 812/2013)	%	111			139			138		

(a) hermetically sealed equipment containing fluorinated gas

Energy efficiency classes refer to a range between A+ and F.