

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

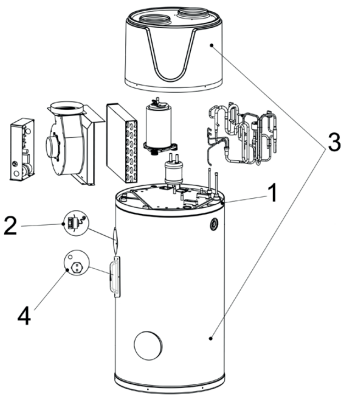
It allows DHW to be produced efficiently and with a GWP close to zero, reaching temperatures of up to 75°C, even without heating elements, where conditions permit (heating elements are integrated as standard, however, to ensure the same performance even under limiting operating conditions).

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.

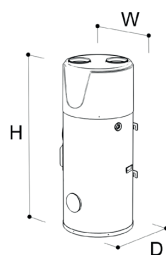
Enamelled steel tank (size 100) and stainless steel tank (sizes 200 and 300S)
2.

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

		NEW			NEW			NEW		
TECHNICAL DATA		100			200			300S		
Product code		02676			02677			02678		
Compressor frequency		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
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.