



More Detail

Ecocycle SZ12

By using the heat energy in the air, it provides energy savings up to 80% while transferring the heat to the plumbing water circulating in your house. It has **2 heating, 1 cooling and 1 hot water** modes.

In heating mode 1, it can convert **7 degrees** of heat from the air to **35 degrees** water and works with a capacity of **12.92 kW** and an efficiency of **COP 4.34**. In heating mode 2, it can convert **7 degrees** of heat from the air to **45 degrees** water and works with a capacity of **12.56 kW** and an efficiency of **COP 3.43**. In cooling mode, it can convert **35 degrees** of heat from the air into **7 degrees** of water and works with a capacity of **9.57 kW** and an efficiency of **EER 2.77**. In hot water mode, it can convert **20 degrees** of heat from the air into **55 degrees** water and works with a capacity of **14.18 kW** and an efficiency of **COP 4.35**.



Cooling



Heating

Technical Specifications

Capacity	12kW
Circulation Pump	External
Compressor	Copeland Scroll
Operating Modes	Cooling, Heating, How Water
Power Supply	380-420V
Reactor Coolant	R407C
Size H/W/D (mm)	1360/500/1160
Weight (kg)	138

Hot
WaterWeather
CompensationAbility to
Work -25°C

		Ecocycle S-12	Ecocycle S-16	Ecocycle SZ-12	Ecocycle SZ-16	
Water Heating	Capacity(1)	kW	13,88	20,16	14,18	20,38
	Power	kW	3,38	4,8	3,26	4,72
	COP(1)	W/W	4,11	4,2	4,35	4,31
Heating	Capacity(2)	kW	12,6	15,88	12,92	16,20
	Power	kW	2,92	3,64	2,98	3,76
	COP(2)	W/W	4,31	4,36	4,34	4,31
	Capacity(3)	kW	12,20	14,98	12,56	15,33
	Power	kW	3,63	4,43	3,66	4,48
	COP(3)	W/W	3,36	3,38	3,43	3,41
	Operating Temperature	°C	-15/+45	-15/+45	-22/+45	-22/+45
Max outlet water	°C	56	56	61	61	
Cooling	Capacity(4)	kW	9,35	12	9,57	12,15
	Power	kW	3,67	4,68	3,45	4,45
	EER	W/W	2,55	2,56	2,77	2,73
	Operating temperature	°C	+24/+43	+24/+43	+24/+48	+24/+48
	Minimum outlet water temperature	°C	5			
Compressor	Type	Scroll				
	Refrigerant	R407C				
	Quantity	1				
Heat exchanger	Type	Braze Plate Heat Exchanger				
Fan	Type	Axial				
	Brand Name	Rosenberg				
	Fan Speed	670-880 rpm				
	Sound Level	dB	52	53	50	50
	Fan Power	220-270 W				
Dimensions	Width	cm	136			
	Depth	cm	50			
	Height	cm	111			
	Weight	kg	138	148	138	148
Wolume	dBA	60	62	58	60	
Circulation Pump	m³	2,5	3	2,5	3	
Device Pressure Loss	Kpa	30	38	30	38	
Cable Section	m²	5x2.5				
Fuse	A	20				
(Input-Output) Pipe Diameter	1 1/4"					
Voltage	V/PH/Hz	380/3/50				
Additional Heater	Optional					
Automatic Defrost	Yes					
Low Pressure Protection System	Yes					
High Pressure Protection System	Yes					
(1): Heating Power A20/W15-55 (EN14511). Outer air temperature DT 20 °CWT 15°C						
(2): Heating Power A7/W35-30 (EN14511). Outer air temperature DT 7 °CWT 6°C						
(3): Heating Power A7/W45-40 (EN14511). Outer air temperature DT 7 ° C WT 6°C						
(4): Cooling Power A35/W7-12 (EN14511). Outer air temperature 35 °C						