



Heating / Cooling
DHW Heat Pump Solutions

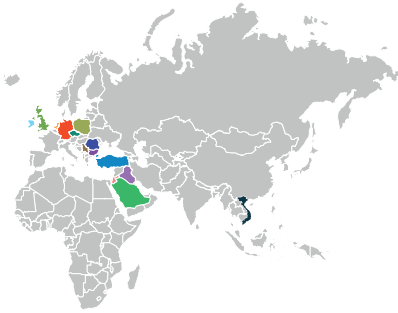


About Us

As Ecocycle company, we have provided economic solutions to thousands of our customers since 2015 with Ecocycle Heat Pumps, the product of five years of R&D work. Ecocycle Heat Pumps, which we have produced as a result of intensive R&D, successfully passed the tests carried out in European energy laboratories and were entitled to receive **A+++ energy certificates**. We manufacture air source, water source and ground source heat pumps.

Where We Are

Export to more than 20+ countries worldwide



Certificates

Ecocycle can provide certificates such as ISO, CE, LVD, EMC.



Refrigerants Trends

Ecocycle continues to develop heat pumps with all its innovations against the changing refrigerant trend.



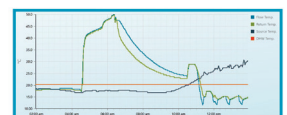
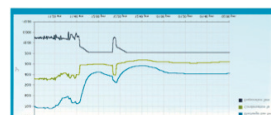
Suppliers

Our priority has always been to use high quality products in our heat pumps. We use Siemens main control board and HMI, Swep or Sanhua heat exchanger, Panasonic, CRSS or GMCC compressor, Sanhua or Danfoss other components etc. Quality is always important for us.



Cloud Systems, SG Ready, Solar Ready, Smart Home Systems etc.

Our heat pumps have many innovative features. You can connect to the Cloud system remotely using Siemens Germany servers. This allows remote control, service intervention and software updates. Our services can reach many engineering informations in two years period via cloud system. It can work integrated with **SG Ready, Solar water heater and smart home automation (Bacnet , Modbus)**



Our References



1200kW

Güralar Joali Maldives - Maldivler
Outdoor Pool Heating and Cooling



550kW

Radisson Blu Hotel – Abu Dhabi
Outdoor Pool Cooling



1300kW

NEO KVL Hotel - Nederland
Indoor Heating - Cooling and DHW



710kW

Akka Hotels - Antalya
Pool Heating



710kW

Gloria Hotels - Turkey
Pool Heating & DHW



1150kW

Alva Donna Hotels – Antalya
Outdoor Pool Heating



3300kW

Liberty Hanel Hotel - Turkey
Pool Heating & DHW



1000kW

Azura World Hotel- Antalya
Outdoor Pool Heating



370 kW

Crystal Nirvana Dolce Vita Hotel - Turkey
Domestic Hot Water

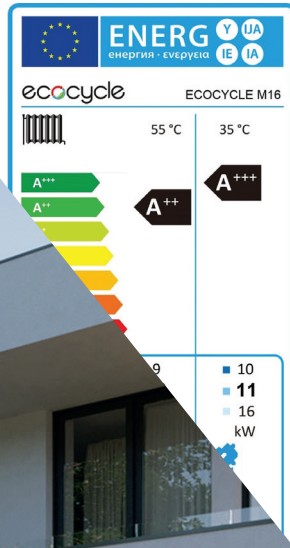


650kW

Banana Greenhouse- Antalya
140 Acres of Land Heating

Apartments Central Heating - **Germany** 325kW

34 Apartments Central Heating - **England** 325kW



▶ A+++ Energy Label (ErP)

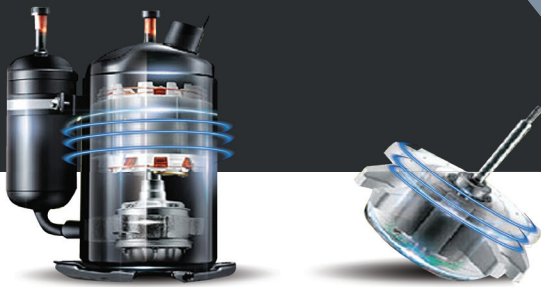
According to the test results conducted by the OST University heat pump test center (WPZ) in Switzerland, our Ecocycle Heat Pumps have received the **A+++ (ErP)** energy label. According to this result, our heat pumps rank first in terms of COP value at -10°C and -7°C outdoor temperatures

▶ Wilo Circulation Pump

Ready for installation thanks to the built-in Wilo circulation pump and expansion tank.



M12-M16



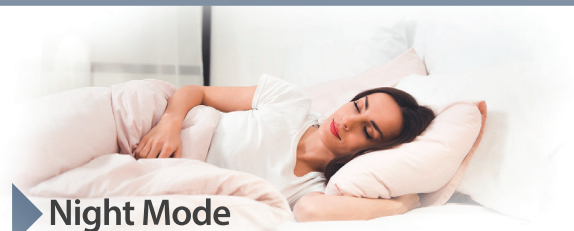
▶ Full DC Inverter

When the heating or cooling demand is high, the inverter compressor and the fan motor will start running at a high speed, inversely, they will run at a low speed.

▶ Night Mode

Improved for a quieter and more comfortable sleep at night.

*All our inverter heat pumps have this feature.



Series		Ecocycle M12	Ecocycle M16
Heating Condition-Air Temp. (DT/WT) 7/6°C , Water Temp. (In/Out) 30/35°C			
Heating Capacity Range	kW	4,18-12,1	5,40-15,63
Power Input Range	kW	0,86-2,59	1,10-3,27
COP at 60 RPS		4,68	4,72
Cooling Condition-Air Temp. (DT/WT) 35/24°C , Water Temp. (In/Out) 12/7°C			
Cooling Capacity Range	kW	3,74-9,60	4,60-11,80
Power Input Range	kW	1,03-3,25	1,38-3,98
EER at 60 RPS		3,19	3,23
Maximum-Minimum Compressor Speed	RPS	26-60	32-74
Compressor	CRSS (Panasonic-Sanyo)		
Compressor Type	DC Twin Rotary		
Compressor Driver	STEP		
Heat Exchanger	SWEP Brazed Plate		
Fan Type	BLDC Fan Motor		
Main Control Board	Siemens POL468.65/STD		
Control Panel	Siemens POL895.51/STD HMI		
Circulation Pump	Wilо Para 25-130/8-75		
Refrigerant / Charge Weight (kg)		R32 / 2,2	R32 / 2,7
GWP / CO ₂ Equivalent (ton)		675 / 1,48	675 / 1,82
Max. Operation Pressure (Refrigerant Circuit)	bar	42	
Min. Operation Pressure (Refrigerant Circuit)	bar	2,3	
Maximum Water Outlet Temperature		61°C	
Operation Ambient Temperature		-25/+45°C	
Water Connection		1 1/4"	
Maximum Water Pressure Drop	kPa	25	
Circulation Pump Flow Rate	m ³ /h	2,5	
Sound Power Level (EN 12102)	dB(A)	56	
Dimensions			
Length	mm	1215	
Depth	mm	500	
Height	mm	830	
Weight	kg	105	115
Electrical Connections			
Voltage	V	220 (380 optional)	
Phase	~	Mono	
Maximum Current	A	19	25
Frequency	Hz	50	
Circuit Breaker	A	25	
Electrical Cable Connections	mm	3x6	

▶ High COP

With Ecocycle inverter technology, heat pump can maintain high COP during operation, creating an extraordinarily high efficiency and savings for users.



▶ Static Painted Galvanized Case Design

Our heat pump cabinet is resistant to corrosion and all external weather conditions. It has a long service life.



▶ High Capacity & R32

High capacity heat pump with environmentally friendly R32 gas is ready for all your needs.

▶ -25°C Working Temperature

The heat pump is suitable for the extreme cold area and truly realizes the stable operation under extreme temperature conditions.

A wide-angle photograph of a modern industrial building with large glass windows, set against a sunset sky. The sun is low on the horizon, casting a warm glow over the scene.

M35-M55



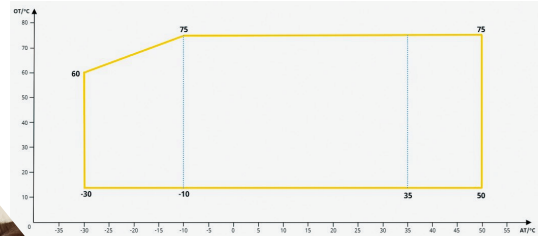
Series		Ecocycle M35	Ecocycle M55
Heating Condition-Air Temp. (DT/WT) 7/6°C , Water Temp. (In/Out) 30/35°C			
Heating Capacity Range	kW	12,10-29,20	16,10-44,10
Power Input Range	kW	2,52-6,63	3,42-10,50
COP at 60 RPS		4,52	4,44
DHW Condition-Air Temp. (DT/WT) 20°C , Water Temp. 15/55°C			
DHW Capacity Range	kW	17,90-35,30	23,90-53,10
Power Input Range	kW	3,65-7,51	4,87-11,20
COP at 60 RPS		4,7	4,73
Cooling Condition-Air Temp. (DT/WT) 35/24°C , Water Temp. (In/Out) 12/7°C			
Cooling Capacity Range	kW	10,50-22,50	13,9-33,75
Power Input Range	kW	3,28-7,50	4,34-12,05
EER at 60 RPS		3,12	3,06
Maximum-Minimum Compressor Speed	RPS	30-60	40-90
Compressor	CRSS (Panasonic-Sanyo)		
Compressor Type	DC Rotary		
Compressor Driver	Sanhua		
Heat Exchanger	Sanhua		
Fan Type	BLDC Axial Fan		
Main Control Board	Siemens POL468.65/STD		
Control Panel	Siemens POL895.51/STD HMI		
Refrigerant / Charge Weight (kg)		R32 / 8	R32 / 9
GWP / CO ₂ Equivalent (ton)		675 / 5,40	675 / 6,08
Max. Operation Pressure (Refrigerant Circuit)	bar	42	
Min. Operation Pressure (Refrigerant Circuit)	bar	2,3	
Maximum Water Outlet Temperature		61°C	
Operation Ambient Temperature		-25/+45°C	
Water Connection		1 1/4"	
Sound Power Level (EN 12102)	dB(A)	61	
Dimensions			
Length	mm	1055	1110
Depth	mm	854	1150
Height	mm	1382	1500
Weight	kg	210	280
Electrical Connections			
Voltage	V	380	
Phase	~	Three	
Maximum Current	A	19	25
Frequency	Hz	50	
Circuit Breaker	A	25	

R290 Refrigerant

With both low carbon emissions and low GWP, R290 is considered the most potential refrigerant in the industry, and thus Ecocycle takes responsibility for energy savings and environmental protection.

Full DC Inverter Technology

When the heating or cooling demand is high, the inverter compressor and the fan motor will start running at a high speed, inversely, they will run at a low speed.



Operation Range

Thanks to its wide operating range, it continues to operate stably between **-30°C** and **+50°C**

 **ecocycle**
HEAT PUMPS

PM8-PM12-PM16

High Water Outlet Temperature

Thanks to R290 refrigerant, **75°C** water outlet temperature can be achieved. With boost mode, the water outlet temperature can reach **80°C**.

75°C **80°C**



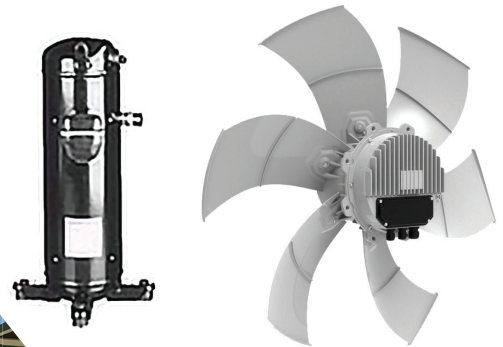
Series		Ecocycle PM8	Ecocycle PM12	Ecocycle PM16
Heating Condition-Air Temp. (DT/WT) 7/6°C , Water Temp. (In/Out) 30/35°C				
Heating Capacity Range	kW	3,20-8,70	3,20-12,60	5,60-15,90
Power Input Range	kW	0,69-1,89	0,69-2,73	1,19-3,45
COP at 60 RPS		4,69	4,62	4,71
Cooling Condition-Air Temp. (DT/WT) 35/24°C , Water Temp. (In/Out) 12/7°C				
Cooling Capacity Range	kW	2,40-7,10	2,40-9,50	4,52-12,30
Power Input Range	kW	0,75-2,25	0,77-3,05	1,38-3,88
EER at 60 RPS		3,15	3,11	3,18
Compressor	GMCC			
Compressor Type	DC Twin Rotary			
Compressor Driver	Sanhua			
Expansion Valve	SANHUA EEV			
Heat Exchanger	SWEP BPHE			
Fan Type	BLDC			
Main Control Board	Siemens POL468.65/STD			
Control Panel	Siemens POL895.51/STD HMI			
Circulation Pump	Wilo Yonos Para 25/8			
Refrigerant / Charge Weight (kg)		R290 / 1,15	R290 / 1,15	R290 / 1,3
GWP	3			
Max. Operation Pressure (Refrigerant Circuit)	bar	31		
Min. Operation Pressure (Refrigerant Circuit)	bar	0,7		
Maximum Water Outlet Temperature	75°C			
Operation Ambient Temperature	-30/+50°C			
Water Connection	1 1/4"			
Dimensions				
Length	mm	1214		
Depth	mm	500		
Height	mm	830		
Weight	kg	120	120	135
Electrical Connections				
Voltage	V	220	220	380
Phase	~	Mono	Mono	Three
Maximum Current	A	16	22	12
Frequency	Hz	50		
Circuit Breaker	A	20	25	16

Commercial Heat Pump

As a large heat pump, M40 and M65 can achieve high COP while maintaining low noise, which makes it a good choice for large commercial and industrial projects such as hospital, schools, hotels and office building.

DC Inverter Compressor & EC Axial Fan

When the heating or cooling demand is high, the inverter compressor and the fan motor will start running at a high speed, inversely, they will run at a low speed.



M40-M65



High Capacity & R410

High capacity heat pump with environmentally friendly R410 gas is ready for all your needs.

Series		Ecocycle M40	Ecocycle M65
Heating Condition-Air Temp. (DT/WT) 7/6°C, Water Temp. (In/Out) 30/35°C			
Heating Capacity Range	kW	13,60-39,80	24,30-60,80
Power Input Range	kW	2,94-8,62	5,23-13,10
COP at 60 RPS		4,62	4,64
Cooling Condition-Air Temp. (DT/WT) 35/24°C, Water Temp. (In/Out) 12/7°C			
Cooling Capacity Range	kW	12,10-31,30	12,40-47,10
Power Input Range	kW	3,74-9,70	3,80-14,45
EER at 60 RPS		3,23	3,26
Compressor	Panasonic		
Compressor Type	DC Scroll		
Compressor Driver	STEP		
Expansion Valve	SANHUA EEV		
Heat Exchanger	SANHUA BPHE		
Fan Type	EC FAN		
Main Control Board	Siemens POL468.65/STD		
Control Panel	Siemens POL895.51/STD HMI		
Circulation Pump	External		
Refrigerant / Charge Weight (kg)		R410A / 12	R410A / 12
GWP / CO ₂ Equivalent (ton)		2088 / 25,05	2088 / 25,05
Max. Operation Pressure (Refrigerant Circuit)	bar	42	
Min. Operation Pressure (Refrigerant Circuit)	bar	2,3	
Maximum Water Outlet Temperature		60°C	
Operation Ambient Temperature		-25/+45°C	
Water Connection		1 1/2"	
Dimensions			
Length	mm	1210	
Depth	mm	1090	
Height	mm	1700	
Weight	kg	400	405
Electrical Connections			
Voltage	V	380	
Phase	~	Three	
Maximum Current	A	40	55
Frequency	Hz	50	
Circuit Breaker	A	50	60



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