



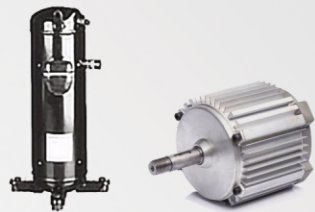
- Reliable
- Efficient
- Sustainable



R290 Commercial Heat Pump

Energy & Cost Savings

DC Inverter compressors and DC fans work together to adjust heating & cooling capacity and airflow according to actual demand, enhancing energy efficiency while significantly reducing overall energy consumption.



Environmentally Friendly

R290 refrigerant combines exceptional efficiency with sustainability. With an ultra-low Global Warming Potential (GWP = 3) and zero Ozone Depletion Potential (ODP), it delivers outstanding performance while meeting the highest environmental standards.

R290 (GWP= 3)	R32 (GWP= 675)	R410A (GWP= 2088)
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Hot Water up to 75°C

With the ability to deliver hot water up to 75°C, R290 heat pumps provide powerful and versatile heating solutions perfectly suited for homes, commercial buildings, and demanding industrial needs.



Built on Siemens, Hitachi & Sanhua Quality

Our heat pumps integrate premium components: **Siemens control boards** and **HMI for smart operation**, a high-performance **Hitachi compressor** for reliability, and **Sanhua components** for proven quality and efficiency.



Technical Specifications

Model		Ecocycle PM40	Ecocycle PM60
Heating-Outside Temp. (DT/WT) 7/6°C , Water Temp. (In/Out) 30/35°C			
Heating Capacity	kW	11,30-32,10	15,25-45,60
Power Input	kW	2,59-6,68	3,54-10,54
COP at 60 RPS		4,69	4,62
DHW-Outside Temp. (DT/WT) 20°C , Water Temp. 15/55°C			
DHW Capacity	kW	14,50-40,70	19,70-57,10
Power Input	kW	3,10-8,70	4,30-13,10
COP at 60 RPS		4,72	4,62
Cooling-Outside Temp. (DT/WT) 35/24°C , Water Temp. (In/Out) 12/7°C			
Cooling Capacity	kW	9,45-27,00	12,90-37,80
Power Input	kW	3,00-8,30	4,00-12,05
EER at 60 RPS		3,27	3,23
Max-Min Compressor Speed	RPS	30-80	40-110
Compressor		Hitachi	
Compressor Type		DC Scroll	
Compressor Inverter Driver		SANHUA	
Heat Exchanger		SANHUA BPHE	
Fan Type		BLDC Axial Fan	
Main Control Board		Siemens POL468.65/STD	
HMI		Siemens POL895.51/STD HMI	
Refrigerant / kg		R290	
GWP / CO ₂ Equivalent (ton)		3	
Max Working Pressure	bar	31	
Min Working Pressure	bar	0,7	
Max Outlet Water Temp.		75°C	
Outside Air Working Temp.		-28/+45°C	
Water Connection		1 1/4"	
Dimensions			
Length	mm	995	1150
Width	mm	961	1110
Height	mm	1400	1500
Net Weight	kg	230	300
Electrical Connection			
Voltage	V	380	
Phase	~	Three	
Max Current	A	23	30
Frequency	Hz	50	

