



POLAR

ECO

SWIMMING POOL PUMP

ENGINEERED WITH MITSUBISHI PREMIUM PARTS



15 YEAR WARRANTY
ON HEAT EXCHANGER



10 YEAR WARRANTY
ON COMPRESSOR



5 YEAR WARRANTY
ON ALL PARTS

+ 1 YEAR
LABOUR

FULL-INVERTER TECHNOLOGY

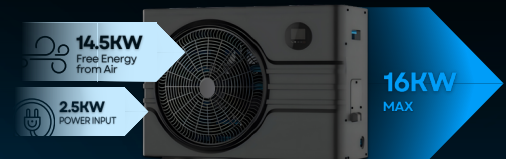
Thanks to **FULL-INVERTER technology**, the pool heat pump industry enters a new era. FULL-INVERTER technology means the machine has adopted an **INVERTER COMPRESSOR & INVERTER MOTOR**, well-assorted with **INTELLIGENT DRIVER PROGRAM** to realise the various speed running automatically. Compared to ON/OFF system, the lower speed operation of Inverters can benefit end-users with an **ULTRA-QUIET EXPERIENCE & SAVING \$\$\$\$\$ ON YOUR ELECTRIC BILL.**

The logo features the word "INVERTER" in a bold, sans-serif font, with a stylized leaf or wave graphic above the letters "V" and "E".

INVERTER



ECO ADVANTAGES



ECO-FRIENDLY R32 REFRIGERANT

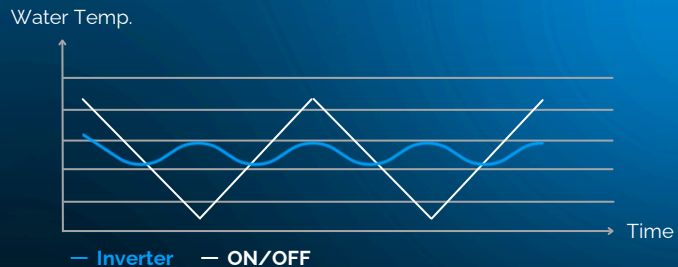
- Low GWP (Global Warming Potential) value = 675.
- Much lower influence to environment than the old type R410A refrigerant.
- Save your cost of F-gas quota by 2/3 than R410A Refrigerant.

ULTRA-QUIET EXPERIENCE

- Low Noise Level: Down to 39-49 db(A) at 1 meter distance.
- Improve much for your swimming enjoyment.
- Keep good relationship with your neighbor.

EXCELLENT PERFORMANCE WITH HIGH EFFICIENCY

- COP (Coefficient of Performance up to 16.
- Up to 3 times energy-saving than ON/OFF System.
- Saving \$\$\$\$\$ your electric bill.



CONVENIENT EXPERIENCE

Intelligent tech will operate smoothly to keep the constant pool water temperature automatically, with which offers you much more convenient swimming experience than ON/OFF system.



Download on the
 **App Store**

GET IT ON
 **Google Play**

BUILT-IN WIFI FUNCTION

Control your pool heat pump via the APP on your smart phone, at Anywhere & Anytime.

MAIN FEATURES



Mitsubishi Inverter Compressor

Higher-End & Quiet Operation.



Screwed Titanium Heat Exchanger

Higher efficiency & Energy saving & Anti-corrosion.



Soft Start

Frequency increasing slowly leads to a stable current.



EEV (Electronic Expansion Valve)

Much more precise for gas control.



Heating, Cooling & Auto modes

More enjoyment with Multi-function.



Wide Range Operation

[-15°C, -43°C]: Ideal for heating your pool even in extreme temperature conditions.



Heating and Cooling

Versatile heating and cooling options for year-round pool comfort.



High COP (Coefficient of Performance) 16

Achieve outstanding energy efficiency for cost-effective heating.



Low Noise

Engineered for quiet operation, ensuring a peaceful pool area.



Smart Defrosting

Efficiently manages frost buildup, enhancing performance.



Smart App Integration

Control your heat pump remotely with the convenience of a mobile app.

Equipped With Innovative Polar Technology

THE 21ST CENTURY PINNACLE OF POOL INNOVATION

TriFlow™ Rapid and Even Heating

TriFlow™ Patented Air Outlet Technology: Maximum heat extraction for rapid and even heating



UltraCore™ | Precision Heating Technology

Ensuring optimal heat exchange efficiency and unrivaled COP values. This efficiency translates into cost savings and a reduced environmental footprint.

EcoDrive™ Inverter Technology

Exclusively crafted for Impulse, optimizing energy usage for eco-innovation.



Smart App Integration

Manage Your Heat Pump Remotely with the Ease of a Mobile App

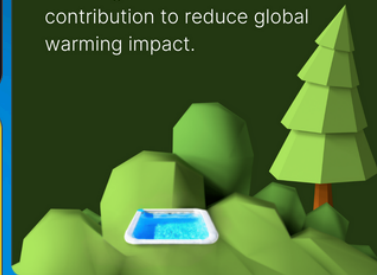
GET IT ON
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R32 Refrigerant Eco-Friendly

Impulse Spark heat pump use R32 green refrigerant, which is better for the environment.

R32 refrigerant makes more contribution to reduce global warming impact.










Engineered with Mitsubishi Inverter Compressor



Performance	★★★★★
Efficiency	★★★★★
Design	★★★★★
Innovation	★★★★★

SPECIFICATIONS

Polar Eco						
Accessories inside the carton						
Model No.	Eco17	Eco21	Eco28	Eco35	Eco28S	Eco35S
* Heating Capacity at Air 27°C, Humidity 80%, Water 26°C						
Heating Capacity (kW)	17-3.8	21-4.8	28-6.8	35-8.8	28-6.8	35-8.8
Power Input (kW)	2.5-0.24	3.09-0.30	4.12-0.43	5.15-0.56	3.97-0.43	5.15-0.56
Max COP	16	16	16	16	16	16
* Heating Capacity at Air 15°C, Humidity 70%, Water 26°C in, 28°C out						
Heating Capacity (kW)	13.5-3	16.5-3.8	23-5.5	25.5-6.4	23-5.5	25.5-6.4
Power Input (kW)	2.76-0.39	3.37-0.5	4.7-0.72	5.2-0.84	4.7-0.72	5.2-0.84
COP	7.6-4.9	7.6-4.9	7.6-4.9	7.6-4.9	7.6-4.9	7.6-4.9
* Cooling Capacity at Air 35°C, Water 29°C in, 27°C out						
Cooling Capacity (kW)	9.4-2.1	11.6-2.7	14.9-3.8	19.3-4.9	14.9-3.8	19.3-4.9
Power Input (kW)	2.47-0.31	3.05-0.4	3.92-0.57	5.08-0.73	3.92-0.57	5.08-0.73
EER	6.7-3.8	6.7-3.8	6.7-3.8	6.7-3.8	6.7-3.8	6.7-3.8
* General Data						
Power Supply	220-240V/1/50Hz			380-415V/3/50Hz		
Max Power Input (kW)	2.6	3.2	4.45	4.76	6.43	6.93
Water Flow Volume (m ³ /h)	5.5	6.5	9	12	9	12
Refrigerant	R32					
Heat Exchanger	Titanium					
Air Flow Direction	Horizontal					
Automatic Defrosting	by 4 way valve					
Working Temp. range (°C)	-15-43					
Casing Material	ABS					
Waterproof Level	IPX4					
Noise Level 1m dB(A)	43-55	45-56	47-58	49-59	47-58	49-59
Noise Level 10m dB(A)	23-35	25-36	27-38	29-39	27-38	29-39
Net Weight (kg)	54	58	88	98	88	98
Gross Weight (kg)	65	69	99	110	99	110
Net Dimensions (mm)	925*364*642			110		
Package Dimensions (mm)	990*435*760			1146*460*862		

* Above data are subject to modification without notice.

925×364×642

Net Dimensions (mm)(17kW)

180μm

Operating Air Temperature

220~240V/1/50Hz

Power Supply

13kW-35kW

System Size

Heating & Cooling

Versatile Mode

Titanium

Heat Exchanger



Teams@polarheatpumps.com.au



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OPEN 6 DAYS a week, 9am-5pm

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