POLYTROPIC

Advance 290

The reliable pool heat pump, focused on what matters most



Remote control. Secure monitoring.

4G optional

FULL INVERTER

POLYSOLAR MODE

REVERSIBLE

INTUITIVE CONTROLS





SCOP 7+

Advance 290

-7°C

WARRANTY 3 YEARS POLYTROPIC

A B C D E F

Designed for the swimming season **from April to October**, **ADVANCE 290** combines performance, simplicity and reliability.

POLYTROPIC quality, within everyone's reach.



XXS | XS | S | S+ | M



XM | XM 3-phase

ADVANCE 290 | Technical specifications

MODELS	XXS	XS	S	S+	M	XM	XM 3P
SCOP acc. to EN 17645	7,5	7,5	7,5	7,4	7,8	7,4	7,4
Classification acc. to EN 17645	A	A	A	A	A	A	A
Recommended pool size*	15-30 m³	30-45 m³	45-55 m³	55-70 m³	70-85 m³	85-105 m³	85-105 m³

Air 26°C / Water 26°C / 80% Humidity							
Energy Output BOOST mode	6,5 kW	9,0 kW	10,7 kW	12,9 kW	14,6 kW	17,6 kW	17,6 kW
Energy Output SMART mode	6,5 ~ 2,3 kW	9,0 ~ 2,9 kW	10,7 ~ 3,2 kW	12,9 ~ 4,2 kW	14,6 ~ 4,5 kW	17,6 ~ 5,8 kW	17,6 ~ 5,8 kW
COP SMART mode	11,1 ~ 4,9	11,4 ~ 5,1	11,2 ~ 5,3	11,3 ~ 4,9	11,6 ~ 5,3	10,9 ~ 4,6	10,9 ~ 4,6

Air 15°C / Water 26°C / 70% Humidity							
Energy Output BOOST mode	5,0 kW	7,1 kW	8,2 kW	10,3 kW	11,7 kW	14,6 kW	14,6 kW
Energy Output SMART mode	5,0 ~ 1,7 kW	7,1 ~ 2,2 kW	8,2 ~ 2,6 kW	10,3 ~ 3,1 kW	11,7 ~ 3,5 kW	14,6 ~ 4,4 kW	14,6 ~ 4,4 kW
COP SMART mode	7,3 ~ 4,4	7,0 ~ 4,1	7,6 ~ 4,5	6,1 ~ 4,2	6,8 ~ 4,2	7,4 ~ 4,2	7,4 ~ 4,2

Air 7°C / Water 26°C / 90% Humidity							
Energy Output BOOST mode	4,2 kW	5,5 kW	6,3 kW	7,4 kW	9,3 kW	11,4 kW	11,4 kW
Energy Output SMART mode	4,2 ~ 1,3kW	5,5 ~ 1,9 kW	6,3 ~ 2,3 kW	7,4 ~ 2,6 kW	9,3 ~ 2,9 kW	11,4 ~ 3,3 kW	11,4 ~ 3,3 kW
COP SMART mode	6,4 ~ 4,2	6,3 ~ 3,7	6,4 ~ 3,7	5,8 ~ 3,3	6,1 ~ 4,0	6,3 ~ 3,8	6,3 ~ 3,8
Noise level min-max (at 10m) acc. to EN ISO 3741: 2010	21 ~ 29 dB(A)	23 ~ 31 dB(A)	23 ~ 31 dB(A)	26 ~ 33 dB(A)	28 ~ 35 dB(A)	30 ~ 39 dB(A)	30 ~ 39 dB(A)
Noise level min-max (at 10m) acc. to EN ISO 3744: 2010	19 ~ 26 dB(A)	21 ~ 28 dB(A)	21 ~ 28 dB(A)	23 ~ 30 dB(A)	25 ~ 32 dB(A)	27 ~ 36 dB(A)	27 ~ 36 dB(A)
Temperature working range	-7 °C → +43 °C						

INSTALLATION

Hydraulic connections	1,5'' / 50 mm						
Power	230 V / 1~+N / 50 Hz						400 V / 3~+N / 50 Hz
Circuit breaker and cable size (for 20 m)	C 10 A (3G 2,5 mm²)	C 10 A (3G 2,5 mm²)	C 10 A (3G 2,5 mm²)	C 16 A (3G 2,5 mm²)	C 16 A (3G 2,5 mm²)	C 20 A (3G 4 mm²)	3P+N C 16 (5G 2,5 mm²)
Power Input Max	1,5 kW	2,2 kW	2,2 kW	2,7 kW	3,0 kW	4,0 kW	4,0 kW
Minimum water flow	2,1 m³/h	3,0 m³/h	3,5 m³/h	4,1 m³/h	4,7 m³/h	6,1 m³/h	6,1 m³/h
Dimensions in mm (L x W x H)	924 × 452 × 675					1090 × 473 × 774	
Weight net (gross)	59kg (74kg)	60kg (74kg)	66kg (81kg)	67kg (82kg)	68kg (83kg)	90kg (98kg)	90kg (98kg)

* May to September with cover.

Performance, without compromise

Enjoy your pool to the full, with complete peace of mind. **ADVANCE 290** maintains a comfortable pool temperature throughout the season, with easy installation and proven reliability. **Essential performance at the right price.**

For an enjoyable swimming season, **with the ideal balance of performance and price**



FULL INVERTER

OPTIMISED PERFORMANCE
Full Inverter technology

- 2D Technology: INVERTER compressor with hertz-by-hertz variable speed control
- DC Brushless: variable-speed fan for optimal performance
- Optimal Twist: corrosion-resistant spiral PVC/titanium condenser

INTELLIGENT OPERATION
PolySmart Control

The heat pump automatically adjusts its output to suit your pool's needs based on water and ambient temperatures

SIMPLE AND INTUITIVE CONTROLS
Sleek LCD touchscreen

Operating modes: heating, cooling or Auto (maintains the set temperature)
3 control modes:

- Smart
- Eco Silent
- Boost

REVERSE-CYCLE DEFROSTING

Improves performance at the beginning and end of the season.

LOW NOISE LEVEL

Standard sound insulation, together with variable compressor and fan speeds, ensures very low noise levels.

CONNECTED SOLUTION
PolyConnect inside

Wi-Fi module included as standard (optional 4G dongle) for remote control via smartphone and continuous monitoring by the TechniCenter.

FINISH
Galvanised steel casing

with matt epoxy paint for a premium finish.



The perfect temperature, made simple

NEW

Screen



DESIGN LCD TOUCHSCREEN

Easy control, seamlessly integrated design

Waterproof digital display, easy to read in daylight, responsive and seamlessly integrated into the heat pump's design.

Warranty

The ADVANCE 290 range comes with a **3-year warranty** covering parts, labour and travel costs. It also benefits from a **15-year warranty against corrosion of the titanium heat exchanger** and a **7-year compressor warranty** (subject to technical assessment).

PolySmart Control

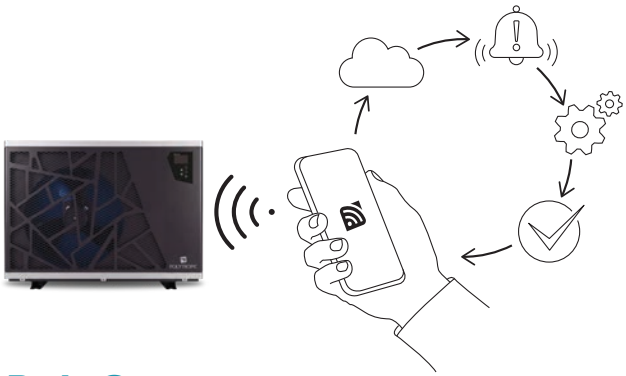
Intelligent control for greater energy savings.

By continuously adjusting heat pump output to the pool's needs based on ambient and water temperatures, our exclusive control system **PolySmart Control optimises the SCOP, reduces electricity consumption and keeps noise levels down** for maximum comfort.

Higher COP = **Lower electricity BILLS**

+

Lower noise LEVELS = **Greater COMFORT**



PolyConnect

Intelligent connected maintenance

PolyConnect is a **smart, connected ecosystem** that enables secure remote management of heat pumps via the TechniCenter.

With intelligent AI-powered features, it facilitates remote monitoring and preventive maintenance, simplifies servicing and enhances the user experience.

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