



# POLYTROPIC

Pool Heating Solutions



# MORPHEO

Performance and customization

NEW  
OPTIONS



POLYCONNECT 2.0  
INSIDE



4G  
optional



Customizable front panels

A HIGH-PERFORMANCE FULL-INVERTER HEAT PUMP WITH A CUSTOMIZABLE FRONT PANEL

for a better integration within its environment.

A Polytropic exclusivity!



Certified noise levels  
Independent testing laboratory



# Features and benefits



## SIMPLE AND INTUITIVE OPERATION

A LCD touch screen to program, display the temperature and set time slots

**Three operating modes: Heating, Cooling and Automatic.**



## INTELLIGENT OPERATING MODE

**PolySmart Control:** the heat pump autoregulates its output depending on the water and air temperature.

## OPTIMAL PERFORMANCES



**Optimal Twist:** Titanium heat exchanger in a PVC housing, efficient and corrosion resistant.



**2D Technology:** inverter compressor, higher COP thanks to the Hz by Hz variable speed motor.



**DC Brushless:** variable speed fan motor ensures optimal performance.



-Reverse-cycle defrosting



## LOW NOISE LEVELS

Noise reduction insulation on all panels and rotation speed of the compressor and fan automatically adjusted to reduce noise to the minimum.



## CONNECTED SOLUTION

**PolyConnect inside :** WiFi module included. Remote management with a smartphone and supervision by our TechniCenter. 4G optional



## ENERGY EFFICIENCY

- Full-Inverter Technology,
- Low impact R32 refrigerant,
- Enhanced COP.

**INCLUDED ACCESSORIES :** winter cover, 50 mm hydraulic connection kit, 4 «Silent block» anti-vibration pads, condensate drainage kit, multilingual user and maintenance manual.

# PolySmart Control: great benefits

## EXCLUSIVE CONTROL AND SAVINGS

- Optimisation of the power required to maintain the temperature of your pool, by cross-referencing ambient temperature and water temperature data.
- Anticipation of the pool's energy needs thanks to an advanced dual input regulation.
- Much higher COP on average over the season + low noise level.
- Inverter compressor with «oversized» exchangers = higher COP.
- Brushless fan (variable speed) = lower noise level.
- Combination of Inverter compressor and Brushless fan = power regulation according to the needs of the pool.

## 3 OPERATING MODES



The machine is asked for maximum power to heat up quickly.



The power and sound level are automatically adjusted according to the outside temperature and the water temperature of your pool.



The maximum power output of the machine is limited to ensure the lowest noise level and the highest COP at all times.

COP INCREASED



REDUCED electricity bill



REDUCED noise level



BETTER USER COMFORT

# Technical specifications

MODELS	Morpheo XXS	Morpheo XS	Morpheo S	Morpheo S+
SCOP according to EN 17645	7,0	7,9	8,2	7,2
Classification according to EN 17645	A	A	A	A
Recommended pool size*	15-35 m <sup>3</sup>	35-45 m <sup>3</sup>	45-55 m <sup>3</sup>	55-70 m <sup>3</sup>
Air 26°C / Water 26°C / Humidity 80%				
Energy Output BOOST mode	6,5 kW	7,5 kW	9,5 kW	12,5 kW
COP BOOST mode	5,7	5,3	6,0	5,1
Energy Output SMART mode	6,5 ~ 2,9 kW	7,5 ~ 3,2 kW	9,5 ~ 3,7 kW	12,5 ~ 4,2 kW
COP SMART mode	7,6 ~ 5,7	10,2 ~ 5,4	9,4 ~ 6,0	9,8 ~ 5,1
Energy Output SMART ECO-Silence mode	2,9 kW	3,2 kW	3,7 kW	4,2 kW
COP ECO-Silence mode	7,6	10,2	9,4	9,8
Air 15°C / Water 26°C / Humidity 70%**				
Energy Output BOOST mode	5,0 kW	6,1 kW	7,7 kW	9,1 kW
COP BOOST mode	4,5	4,2	4,4	4,1
Energy Output SMART mode	5 ~ 2,5 kW	6,1 ~ 2,7 kW	7,7 ~ 3,2 kW	9,1 ~ 3,6 kW
COP SMART mode	6,1 ~ 4,5	6,2 ~ 4,2	6,4 ~ 4,4	6,7 ~ 4,1
Energy Output SMART ECO-Silence mode	2,5 kW	2,7 kW	3,2 kW	3,6 kW
COP ECO-Silence mode	6,1	6,2	6,4	6,7
Air 7°C / Water 26°C / Humidity 90%				
Energy Output BOOST mode	4,2 kW	5,0 kW	6,1 kW	7,7 kW
COP BOOST mode	3,9	3,8	4,1	3,7
Noise level CTTM mini-maxi (at 10m) according to EN ISO 3741 : 2010 **	24 ~ 26 dB(a)	24 ~ 28 dB(a)	28 ~ 31 dB(a)	26 ~ 32 dB(a)
Maximum noise level (at 10m) according to EN ISO 3744: 2010	21 ~ 24 dB(a)	23 ~ 26 dB(a)	24 ~ 28 dB(a)	25 ~ 30 dB(a)
Temperature working range	-3°C -> 38°C			
Installation				
Hydraulic connexions	1,5"/50 mm			
Power	230 V / 1~+N / 50 Hz			
Circuit breaker and cable size (for 20 m)	C 10 A (3G 2,5 mm <sup>2</sup> )	C 10 A (3G 2,5 mm <sup>2</sup> )	C 10 A (3G 2,5 mm <sup>2</sup> )	C 16 A (3G 2,5 mm <sup>2</sup> )
Power Input Max (air 26°C)	1,2 kW	1,6 kW	1,8 kW	2,5 kW
Minimum water flow	2 m <sup>3</sup> /h	3 m <sup>3</sup> /h	3 m <sup>3</sup> /h	4 m <sup>3</sup> /h
Dimensions in mm (L x l x h)	860 x 348 x 610			
Weight net (gross)	40 kg (47 kg)	40 kg (47 kg)	44 kg (51 kg)	44 kg (51 kg)

\* Tests run with air temperature of 15°C, water inlet temperature of 26°C and water outlet temperature of 28°C in order to define the required water flow, heating capacity and consumption. In accordance with FPP recommendations (French Pool Federation).

\*\*The BOOST and ECO mode noise levels at 10 m are certified by the independent testing laboratory CTTM according to EN ISO 3741 : 2010

\*\*\*Noise levels in BOOST and ECO mode at 10 m, certified by the independent laboratory Centre de Transfert de Technologie du Mans, according to EN ISO 3741: 2010

# An exclusive system

## INNOVATION !

The Morpheo pool heat pump is equipped with the exclusive fast replacement front panel system to offer a custom look.

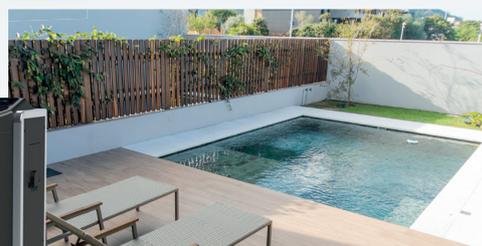
- + Discretion: for a better integration in the garden
- + Design: an attractive and differentiating look
- + Customization: a heat pump with a «made-to-measure» look

Delivered as standard with a Dark ABS front panel - It is possible to order the panel of your choice :

### STANDARD :



### OPTIONAL :



Easily **connect** the heat pump by scanning the QR code, **control** via the free app and **get secure remote monitoring for preventive maintenance and remote diagnosis by Polytropic technicians.**

The Polyconnect application offers an additional **2 Year warranty on all parts \***



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