

MASTER-INVERTER

-15°C

POLYTROPIC
Pool Heating Solutions

THE INTELLIGENT SWIMMING POOL HEAT PUMP

The **exclusive intelligence system integrated in Master-Inverter heat pump** regulates the output in relation to the water temperature but also takes into consideration the outside air temperature. This guarantees **heating performance at the best COP level and lowest noise level!**



FEATURES AND BENEFITS

Winter cover included



• SIMPLE AND INTUITIVE

Digital 'Touch Screen' with three operating modes.



• EFFICIENT AND RAPID DEFROSTING

A 4-way valve allowing:
- Reverse-cycle defrosting
- Operation at low temperatures



• EXCLUSIVE 'LOW TEMPERATURE' SYSTEM

Protection of the heat pump at temperatures below 0°C:
- Preheating of the compressor housing
- Antifreeze system of the evaporator condensation
- Automatic piloting of the 'low temperature' system



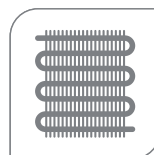
• LOW NOISE LEVEL

FULL INVERTER TECHNOLOGY: automatically adjusts the rotation speed of the compressor and fan to reduce noise to the minimum.



• INTELLIGENT OPERATING MODE

The heat pump autoregulates its output depending on the air temperature.



• OPTIMAL PERFORMANCES

- « Blue Fins » coating on the evaporator for a better resistance to corrosion and better evacuation of the condensation (hydrophobic).



- Inverter compressor, higher COP thanks to the variable speed motor



- Titanium exchanger in a PVC housing, efficient and corrosion resistant.



- Variable speed ventilator to ensure optimal performances.



• CONNECTED SOLUTION

Compatible with the remote management solutions - Polyconnect PRO and LITE.



TECHNICAL SPECIFICATIONS

Model	Master-Inverter XXS	Master-Inverter XS	Master-Inverter S	Master-Inverter S+	Master-Inverter M	Master-Inverter XM	Master-Inverter L	Master-Inverter L+
Recommended pool size (May-Sept, with cover)	15-30 m³	30-45 m³	45-55 m³	55-70 m³	70-85 m³	85-105 m³	105-130 m³	130-160 m³
Air 28°C / Water 28°C / Humidity 80%								
Energy Output Boost Mode	6,6 kW	8,8 kW	10,6 kW	12,8 kW	16,5 kW	20,1 kW	24,2 kW	27,8 kW
COP Boost Mode	6,5 ~ 5,4	6,5 ~ 5,4	6,5 ~ 5,4	6,8 ~ 5,6	6 ~ 5,4	5,9 ~ 5,2	6 ~ 5,4	5,9 ~ 5,2
Energy Output Smart Mode	6,6 ~ 3,2 kW	8,8 ~ 3,5 kW	10,9 ~ 3,9 kW	12,9 ~ 4,2 kW	16,5 ~ 5,5 kW	20,1 ~ 6,5 kW	24,4 ~ 7,8 kW	27,8 ~ 10,5 kW
COP Smart Mode	10,8 ~ 5,4	10,8 ~ 5,4	10,8 ~ 5,4	11,2 ~ 5,6	10,8 ~ 5,4	10,1 ~ 5,2	10,8 ~ 5,4	10,1 ~ 5,2
Energy Output ECO-Silence Mode	5,8 ~ 3,2 kW	5,8 ~ 3,5 kW	7,1 ~ 3,9 kW	8,4 ~ 4,2 kW	9,9 ~ 5,5 kW	12,2 ~ 6,5 kW	16,3 ~ 7,8 kW	18,6 ~ 10,5 kW
COP ECO-Silent	10,8 ~ 8,3	10,8 ~ 8,3	10,8 ~ 8,3	11,2 ~ 8,5	10,8 ~ 8,3	10,1 ~ 8,1	10,8 ~ 8,3	10,1 ~ 8,1
Air 15°C / Water 26°C / Humidity 70%								
Energy Output Boost Mode	4,6 kW	6,4 kW	7,5 Kw	9,8 kW	11,7 kW	14,6 kW	18,8 kW	23,4 kW
COP Boost mode	4,8 ~ 4,3	4,9 ~ 4,4	4,9 ~ 4,4	5 ~ 4,5	4,6 ~ 4,4	4,6 ~ 4,3	4,6 ~ 4,4	4,5 ~ 4,2
Energy Output Smart Mode	4,6 ~ 2,6 kW	6,4 ~ 3,2 kW	7,5 ~ 3,5 Kw	9,8 ~ 3,7 kW	11,7 ~ 4,2 kW	14,6 ~ 4,9 kW	18,8 ~ 6,8 kW	23,4 ~ 8,1 kW
COP Smart Mode	6,7 ~ 4,4	6,7 ~ 4,4	6,7 ~ 4,4	6,8 ~ 4,5	6,7 ~ 4,4	6,6 ~ 4,3	6,7 ~ 4,4	6,5 ~ 4,2
Energy Output ECO-Silence Mode	2,9 ~ 2,6 kW	3,8 ~ 3,1 kW	4,9 ~ 3,5 kW	7,8 ~ 3,7 kW	6,7 ~ 4,4 kW	8,5 ~ 4,9 kW	10,2 ~ 6,8 kW	12,5 ~ 8,1 kW
COP ECO-Silent	6,7 ~ 5,6	6,7 ~ 5,6	6,7 ~ 5,6	6,8 ~ 5,5	6,7 ~ 5,7	6,6 ~ 5,6	6,7 ~ 5,7	6,5 ~ 5,6
Noise level minimum, ECO-Silence Mode (at 10m)	21 dB(a)	21 dB(a)	21 dB(a)	22 dB(a)	22 dB(a)	24 dB(a)	24 dB(a)	25 dB(a)
Working temperature range	-15°C -> 38°C							
Refrigerant	R32							

*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).

*COP : Coefficient de performance



A COMPREHENSIVE FIELD AFTER SALES SERVICE NETWORK

POLYTROPIC has carefully selected over further **90 technical centers** in Spain, Germany, Benelux, England and Switzerland.

Managed by the head office in Lyon, the technical network is permanently monitored to ensure swift quality intervention. The technical team will accompany installers from product selection through to installation and start-up.

HOTLINE
+33 4 78 56 93 96

Not surcharged call



📍 4 Chemin des Eclapons - 69390 VOURLES - FRANCE
☎ +33 (0)4 78 56 93 90 - 📠 +33 (0)4 78 56 93 99
✉ polytropic@polytropic.fr - www.polytropic.fr