



MASTER-INVERTER

The intelligent swimming pool heat pump



MASTER INVERTER L and L+

MASTER INVERTER XXS, XS, S and S+

MASTER INVERTER M and XM

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



• SIMPLE AND INTUITIVE OPERATION

Color digital touch screen.

Three operating modes:

Heating, Cooling and Automatic.



• OPTIMAL PERFORMANCES

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



• LOW NOISE LEVEL

Noise reduction insulation on all panels (ABS Panels).



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



• EXCLUSIVE 'LOW TEMPERATURE' SYSTEM

- Reverse-cycle defrosting,
- Preheating of the compressor housing,
- Antifreeze system of the evaporator condensation,
- Automatic piloting of the 'low temperature' system.



- A DC brushless variable speed ventilator to ensure optimal performances.



• INTELLIGENT OPERATING MODE

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



• CONNECTED SOLUTION

Wifi included.

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

OUR TECHNOLOGY

• EXCLUSIVE REGULATION

- Optimization of the power required for maintaining the temperature of the pool by cross-referencing air temperature with water temperature data.
- Anticipation of the pool's energy needs thanks to an advanced double-entry regulation.
- An overall higher COP during the season and lower noise levels.

• INVERTER TECHNOLOGY AND ENERGY SAVINGS

- Inverter compressor with «oversized» exchangers = higher COP.
- Brushless variable speed fan = lower noise levels
- Combination of the Inverter compressor and the Brushless fan motor = automatic regulation of the power of Master-Inverter when the pool does not require full power.

• 3 OPERATING MODES



Boost Mode: the heat pump will raise its heating capacity to near full capacity in order to heat the pool water rapidly.



Smart Mode: the output and the noise levels are automatically optimized taking into account the air and the water temperature



ECO-SILENT Mode: the maximum power output is limited in order to prioritize noise over heating power.

HIGHER COP

=



LOWER electricity bills

LOWER noise levels

=



BETTER user comfort

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*	15-30 m ³	30-45 m ³	45-55 m ³	55-70 m ³	70-85 m ³	85-105 m ³	105-130 m ³	130-160 m ³
Air 28°C / Water 28°C / Humidity 80%								
Energy Output Boost Mode	7,3 kW	9,3 kW	10,6 kW	13,1 kW	16,1 kW	20,4 kW	24,2 kW	27,8 kW
COP Boost mode	6,5 ~ 5,9	6,5 ~ 5,5	6,8 ~ 5,4	6,8 ~ 5,6	6 ~ 5,1	5,9 ~ 5,2	6 ~ 5,4	5,9 ~ 5,2
Energy Output Smart Mode	6,8 ~ 3,2 kW	8,8 ~ 3,5 kW	10,6 ~ 3,9 kW	12,8 ~ 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 ~ 5,9	10,8 ~ 5,5	10,8 ~ 5,4	11,2 ~ 5,6	10,8 ~ 5,1	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-Silence Mode	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	5,6 kW	6,6 kW	7,8 kW	9,8 kW	11,5 Kw	14,8 kW	18,2 kW	22,8 kW
COP Boost mode	5,3	5,3	5,2	4,7	5,1	4,5	4,6 ~ 4,4	4,5 ~ 4,2
Energy Output Smart Mode	5,6 ~ 2,6 kW	6,6 ~ 3,2 kW	7,5 ~ 3,5 kW	9,8 ~ 3,7 kW	11,5 ~ 4,2 kW	14,6 ~ 4,9 kW	18,2 ~ 6,8 kW	22,8 ~ 8,1 kW
COP Smart Mode	6,7 ~ 5,3	6,7 ~ 5,6	6,7 ~ 4,9	7,0 ~ 4,5	6,7 ~ 4,2	6,6 ~ 4,3	6,7 ~ 4,4	6,5 ~ 4,2
Energy Output ECO-Silence Mode	2,9 ~ 2,6 kW	3,8 ~ 3,2 kW	4,9 ~ 3,5 kW	7,8 ~ 3,7 kW	6,7 ~ 4,2 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	7,1 ~ 6,1	7,0 ~ 5,5	6,7 ~ 5,7	6,6 ~ 5,6	6,7 ~ 5,7	6,5 ~ 5,6
Air -7°C/ Water 26 ° / Humidity 0%								
Energy Output	2,75	3,35	4,65	5,45	5,8	8,3	9,72	12,11
COP	2,86	2,82	3,96	3,64	2,83	3	2,98	2,81
Noise level minimum (at 10m)	21~ 23 dB(a)	21~ 25 dB(a)	22~ 26 dB(a)	23~28 dB(a)	25~ 30 dB(a)	25~ 30 dB(a)	26~ 31 dB(a)	26~ 32 dB(a)
Compressor	2D Full DC 							
Expansion valve	Electronic							
Exchanger	Coiled Titanium							
Housing	UV resistant ABS housing panels, sound insulation of the panels							
Refrigerant	R32							
INSTALLATION								
Hydraulic connections	1,5" / 50 mm							
Power	230V / 1~+N / 50 Hz						230V / 1~+N / 50 Hz ou 380V / 3~+N / 50 Hz	
Circuit breaker and cable size (for 20m)	C 10 A (3G2,5 mm ²)	C 10 A (3G2,5 mm ²)	C 16 A (3G2,5 mm ²)	C 20 A (3G4 mm ²) ou 3 x C 16 A (5G2,5 mm ²)	C 25 A (3G6 mm ²) ou 3 x C 16 A (5G2,5 mm ²)			
Power Input Max	1,0 kW	1,1 kW	1,5 kW	1,7 kW	2,1 kW	2,7 kW	3,5 kW	4,6 kW
Minimum water flow	4 m ³ /h			5 m ³ /h		6 m ³ /h	6 m ³ /h	6 m ³ /h
Dimensions in mm (L x l x h)	967x358 x593	967x358 x593	967x358 x593	967x358 x593	1070x430 x690	1070x430 x690	1110x530 x830	1120x530 x830
Weight (net)	50 kg	54 kg	55 kg	56 kg	68 kg	78 kg	100 kg	120 kg

* May to September with cover

** 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).



COLOR TOUCH SCREEN

A LARGE HIGHLY RESPONSIVE COLOR TOUCH SCREEN

- High capacitive TFT touch screen with a 480x480 resolution IPS panel
- Protected by a layer of thermal toughened glass to ensure maximal resistance
- Large size for good readability: L 72 x H 68 mm, 4" diagonal (over 10.5 cm)

>> The mounting box with its transparent protective door protects the display from climatic conditions, dust and scratches. The screen and internal components are protected from damage.

INTUITIVE USER INTERFACE

THE MULTILINGUAL CONTROL INTERFACE INCLUDES NEW FEATURES for clear operations and intuitive navigation.



Access the 3 intuitive operating modes in a single gesture!



View all information simultaneously



Clock settings, timers and display parameters...



Wifi included = simple connected solution



Alarm messages, diagnostics and problem resolutions, hotline contact



Access to the last 50 log-book events

REMOTE CONTROL

Control remotely of all the parameters via the free app for smartphone or tablet for a connected and simple management!

