

INOA 6

4 seasons Full Inverter swimming pool and spa heat pump 5.8 kW

Reversible : heating and colling of the water
Elegant, powerful, thrifty and ultraquiet

The pool heat pump Teddington INOA is equipped with the technology Full-Inverter®. It is thus 10 times quieter and 2 times more economical than a conventional swimming pool heat pump.
Water heating up to 40°C.

UNIQUE FULL-INVERTER ® TECHNOLOGY

The Teddington INOA 6 inverter pool heat pump is equipped with Full-Inverter® technology. It contains a variable speed compressor that adjusts its airspeed per hertz, and a fan that adjusts its fan speed turn by turn. The low speed operating philosophy of the Teddington INOA 6 inverter PAC makes customers benefit from a higher COP (efficiency) and a much lower noise level.

The Teddington INOA 6 inverter swimming pool heat pump chooses its operating speed, between 20 and 100% of its maximum power.

During the first days of the bathing season, the Teddington INOA 6 inverter heat pump runs at full capacity to heat the pool, after that, for the maintenance of water temperature, the Teddington INOA 6 inverter PAC works on average 50% of its capacity to maintain the desired temperature of the pool.

10 times quieter
Mean sound level 46 dB (A) at 1 m

When the desired pool temperature is reached, the Teddington INOA 6 inverter heat pump operates at about 50% of its capacity to maintain it at this level, the average noise level of the heat pump is then 46 dB (A) to 1 m, compared to the noise level of 56 to 60 dB (A) of a conventional On / Off heat pump, the Teddington INOA 6 inverter PAC offers you a bathing environment 10 times quieter.

2 times more energy saving
COP average of 11 to 50% of power, and max 15 of low power

When the desired pool temperature is reached, the Teddington INOA 6 inverter heat pump operates at about 50% of its capacity to maintain it at this level, the average COP (efficiency) of the Teddington INOA 6 inverter PAC is 11, while the COP of a conventional On / Off heat pump is about 5, the energy saving achieved is considerable.

- Progressive Start Technology:

The Soft Start soft start technology is designed to draw a slow load curve from shutdown to rated current over a period of 2 minutes, to avoid overloading the power grid and risking trip disruption. .

While the On / Off heat pump will create a starting current 5 times higher than the rated current, which overloads the power grid and generates voltage drops.

- Mitsubishi Inverter Dual Continuous Inverter Compressor:

Based on the innovative "double mechanism" solution, two motors work together to balance the torque and reduce vibrations. This leads to efficiency and quieter operation.

- Brushless DC Fan Motor:

Less noise and less energy consumption.

UNIQUE FULL-INVERTER ® TECHNOLOGY

- 4 seasons heat pump with immediate defrost cycle reversal.
- Exclusive Full Inverter Technology:
- Compressor low energy consumption with variable power.
- Low energy consumption fan with variable flow.
- LED display and low power electronics.

Efficiency (COP) of 11 at mid-power and up to 15 at temperature maintenance in summer.

Sound level of 46 dBA at 1 meter and up to 38 dBA at 1 meter maintains temperature in summer.

- **Real time display of water temperature and operating power via a clear and user-friendly control panel.**
- **Soft start: no current draw that causes voltage drop and disjunction**
- **Fully automatic operation, immediate commissioning by the user.**
- **Two modes of operation: SMART or SILENCE**
- **Housing in high quality UV resistant black ABS and stainless steel screws.**
- **High performance heat exchanger in pure titanium and PVC, compatible with salt electrolysis.**
- **Thermostatic expansion valve for optimal performance in all situations.**
- **Automatic protection against water shortage by integrated water flow controller.**
- **Setting the water heating temperature up to 40°C.**
- **Fast electrical connection and without opening the heat pump via the external connection box**
- **Simple and fast hydraulic connection thanks to the unions DN50 supplied .**
- **Supplied with 4 Vibration damping pads .**
- **Comes with a condensate drain pipe .**
- **High performance refrigerant without CFC R32.**
- **Operation in single phase 230 V.**

**Performances for a spa
 air at 15°C/70% R.H. and water at 38°C**

Heating power	3.2 kW
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**Performances for pool
 air at 26°C/80% R.H. and water at 26°C**

Heating power	8 kW
COP at 20 % capacity	14.1
COP at 50 % capacity	10.3
COP at 100 % capacity	7.0

**Performances for
 air at 15°C/70% R.H. and water at 26°C**

Heating power	5.8 kW
COP at 20 % capacity	7
COP at 50 % capacity	6.3
COP at 100 % capacity	4.8

Sounds Levels



Sound level at 1 meter	38.8 to 48.2 dBa
Sound level at 10 meters	18.8 to 28,2 dBa



Cooling capacity

Air at 35°C/40% R.H., water at 26°C	4kW
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Electrical spécification

Power supply	230 V (Ph+N) + T
Electrical power	0.17 to 1.2 kW
Nominal amperage	0.7 to 5.2 A
Maximum amperage	8 A
Needed protection	10 A courbe C
Advised power cord	3 x 1.5 mm ²

General Characteristics

Working range Outside température	-7 to 43°C
Working range Outside température	18 to 40°C
Compressor type	Mitsubishi Inverter twin rotary
Frigorigen fluid	R32 (0.65 kg)
Advised water flow	2 to 4 m ³ /h
Inlet and Outlet water connexions	50 mm
Heat exchanger	Pur titane agreed with salt electrolytic water treatment
Internal structure	Galvanised Steel frame
Cabinet	ABS cabinet UV resistant stainless steel screws
Color	Black

Weight and dimensions

Lenght	961 mm
Width	340 mm
Hight	658 mm
Weight	45 kg

Norms and certificats

CE	Yes
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RoHS	Yes
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Warranty

Heat Pump	3 years
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Titanium heat exchanger	7 years
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Compressor	7 years
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Selection

The information contained in this Selection tab is provided for informational purposes only, and should not be construed as legal advice on any subject matter.

Max water volume for outside pool

Oceanic and meridional climate	50 m ³
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Tempered climat	40 m ³
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Continental and lower altitude	30 m ³
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Max water volume for inside pool

Oceanic and meridional climate	25 m ³
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Tempered climat	20 m ³
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Continental and lower altitude	15 m ³
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Max water volume for spa

Oceanic and meridional climate	2 m ³
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Tempered climat	1,5 m ³
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Continental and lower altitude	1 m ³
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