

AQUATIGHT SMART INVERTER POOL HEAT PUMP

*Heat your pool and reduce your energy bill with
Smart Inverter Technology*



2

YEARS PARTS
WARRANTY

10

YEARS HEAT
EXCHANGER
WARRANTY


Aquatight
POOL EQUIPMENT

SATURN SMART INVERTER

What is a Saturn Smart Inverter ?

Saturn Smart Inverter is the latest pool heat pump technology powered by a Smart Inverter compressor and fan motor. It can adjust heating capacity from 25% to 100% intelligently and automatically according to different heating demands.

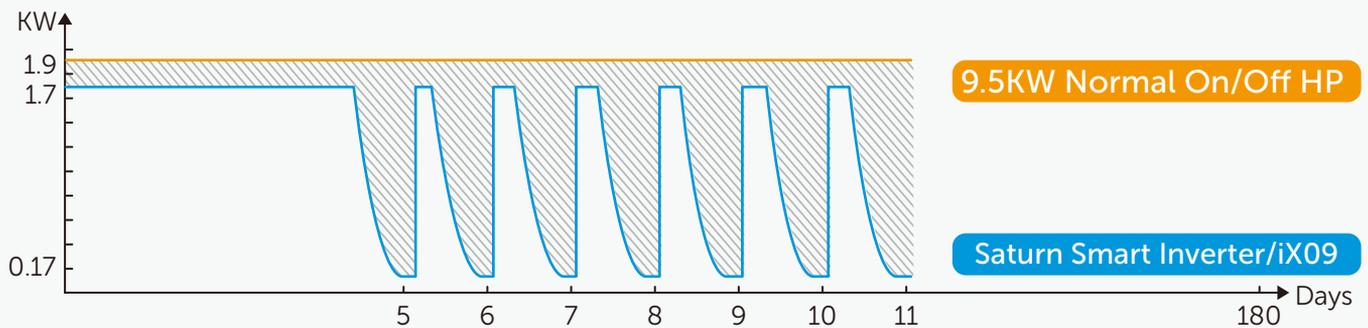
When temperatures are cooler and heating demand is higher, the Saturn Smart Inverter will run with 100% compressor and fan speeds for fast heating. During most of the season when maintaining pool temperature, the Saturn Smart Inverter will run at lower speeds with a much higher and superior COP (Coefficient of Performance). This will deliver significant savings in power consumption and running costs.



1 Save your energy bill

Saturn Smart Inverter highest COP is 12 at Air 26°C/Water 26°C/Humidity 80%, which means 1kW of electricity consumption can provide you up to 12kW heat in return. Standard on/off heat pumps can only provide around 5kW of heat as it can only deliver a much lower COP.

Power Consumption



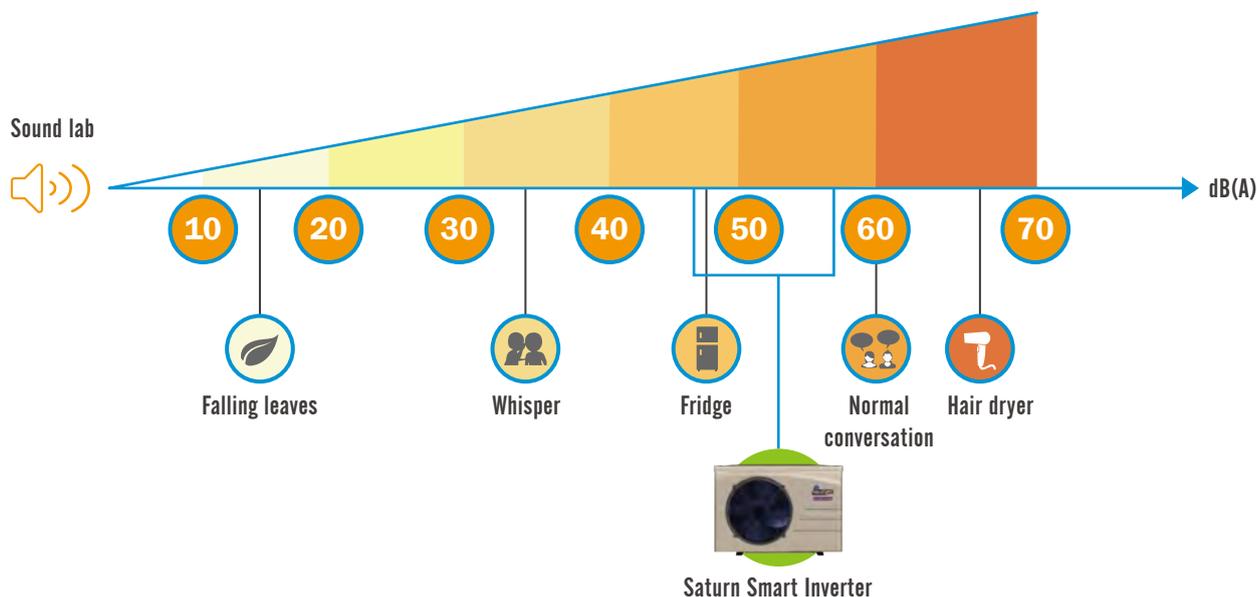
Saturn Smart Inverter HP VS Normal On/Off HP (Heating capacity 9.5kW)

* Performance Condition: Air 26°C/Water 26°C/Humidity 80%



2 / Silent Operation

Thanks to a super quiet DC Smart Inverter compressor, special low-speed running philosophy of the compressor and fan motor, Saturn Smart Inverter can offer you super quiet operation by around 7d(B)A lower sound levels compared to a standard on/off heat pump.



3 / More

- ◆ **Soft Start Technology** is incorporated into Saturn Smart Inverter units. Normal heat pumps will create a large current draw on your electrical system at initial start-up which can sometimes overload your electrical system. Soft Start Technology is designed to slowly draw required current from 0 Amps to the full rated current over a 2 minute period in order to help prevent overload and triggering your safety RCD switch.
- ◆ **Reverse cycle defrosting** provides high efficient automatic defrosting in low temperatures.
- ◆ **Screwed Titanium Heat Exchanger** provides up to 50% more efficiency in performance.



AQUATIGHT DISTRIBUTION CENTRES

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Model	iX09	iX12	iX16
Advised pool volume (m ³)	20~40	30~70	35~85
Operating air temperature (°C)	0~43		
Performance Condition: Air 26°C/ Water 26°C/ Humidity 80%			
Heating capacity (kW)	9.2~2.0	12.5~2.8	16.5~3.5
Heating capacity (kW) in silence mode	7.5~2.0	10.0~2.8	13.3~3.5
C.O.P	5.5~11.5	5.6~12.0	5.5~11.8
C.O.P in silence mode	6.5~11.5	6.6~12.0	6.5~11.8
Performance Condition: Air 15°C/ Water 26°C/ Humidity 70%			
Heating capacity (kW)	6.5~1.4	9.0~2.0	11.0~2.4
Heating capacity (kW) in silence mode	5.2~1.4	7.2~2.0	8.8~2.4
C.O.P	3.8~6.6	3.9~6.7	3.8~6.7
C.O.P in silence mode	4.3~6.6	4.4~6.7	4.3~6.7
Rated input power at air 15°C (kW)	1.7~0.21	2.3~0.3	2.9~0.36
Rated input current at air 15°C (A)	7.4~0.91	10~1.3	12.6~1.6
Max input current (A)	9.0	11.0	15.0
Breaker (A)	11.0	13.5	18.0
Power supply	230V/1 Ph/50Hz		
Required water flow (m ³ /h)	3~4	4~6	6~8
Sound pressure 1m dB(A)	41.3~50	41.5~50.2	44.8~54.1
Sound pressure 10m dB(A)	21.3~30	21.5~30.2	24.8~34.1
Heat exchanger	Titanium in PVC		
Casing	ABS Casing		
Net Dimension LxWxH (mm)	864×349×648	864×349×648	954×349×648
Net Weight (kg)	47	49	60

* The advised pool volume indicated applies under following conditions: Swimming pool is well covered; system runs at least 15 hours per day; If these conditions are not met, please kindly ask for the professional advice.

* Above data is subject to modification without further notice.

