SPECIFICATIONS OF AQUATIGHT INVERTERMAX – SILENT

R32

Model	Aquatight InverterMAX- Silent 13	Aquatight InverterMAX – Silent 15	Aquatight InverterMAX – Silent 17	Aquatight InverterMAX – Silent 21	Aquatight InverterMAX – Silent 28	Aquatight InverterMAX – Silent 35
Advised pool volume (m^3)	30~55	35~65	40~75	50~95	65~120	90~160
Operating air temperature (°C)	-7~43					
Performance Condition: Air 26°C / Water 26°C / Humidity 80%						
Heating capacity (kW)	12.8	15.0	17.3	20.4	27.3	35.6
COP	15.0~7.4	15.5~6.7	14.8~5.9	14.5~5.7	14.6~6.2	14.6~5.5
COP at 50% capacity	11.0	10.9	10.5	10.2	10.8	10.3
Performance Condition: Air 15°C / Water 26°C / Humidity 70%						
Heating capacity (kW)	8.3	10.5	11.4	14.0	18.0	24.0
COP	7.7~4.8	7.8~4.6	7.5~4.3	7.4~4.2	7.8~4.6	7.7~4.5
COP at 50% capacity	6.8	6.6	6.1	6.1	6.5	6.8
Sound pressure at 1m dB(A)	42.1~50.7	41.3~54.0	43.1~53.8	40.9~54.2	43.5~54.9	42.6~54.7
Sound pressure of 50% capacity at 1m dB(A)	45.7	46.0	46.5	46.4	48.4	45.8
Sound pressure at 10m dB(A)	22.1~30.7	21.3~34.0	23.1~33.8	20.9~34.2	23.5~34.9	22.6~34.7
Compressor	Twin-rotary Mitsubishi DC inverter					
Heat exchanger	Spiral titanium tube in PVC					
Casing	ABS Casing					
Power supply	230V/1 Ph/50Hz					400V/3 Ph/50Hz
Rated input power at air 15°C (kW)	0.22~1.73	0.27~2.2	0.3~2.6	0.38~3.3	0.57~3.8	0.62~5.2
Rated input current at air 15°C (A)	0.96~7.52	1.17~9.6	1.3~11.3	1.65~14.3	2.48~16.5	0.89~7.4
Max input current (A)	10.0	11.0	13.5	17.5	21.0	9.5
Circuit breaker (A)	12.0	13.5	16.0	21.0	25.0	12.0
Power cord (mm^2)	3×2.5	3×2.5	3×2.5	3×4	3×6	5x2.5
Advised water flux (m^3/h)	4~6	5~7	6.5~8.5	8~10	10~12	12~18
Water pipe in-out size (mm)	50					
Net dimension LxWxH (mm)	961×340×658	961×340×658	961×420×658	961×420×758	1092×420×958	1161×530×958
Net Weight (kg)	50	52	63	68	90	120
Qty per 20'FT / 40'HQ (sets)	90/198	90/198	78/165	52/165	44/100	34/72

* The values indicated are valid under ideal conditions: Pool is well covered, filtration system running at least 15 hours a day.
* Above data is subject to modification without notice.

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AQUATIGHT DISTRIBUTION CENTRES

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Swimming Pool Heat Pump – Quiet & Energy Efficient

Aquatight InverterMAX –Silent Series

QUIETER OPERATION average 46dB(A) at 1m

DOUBLE ENERGY SAVING Up to 15 COP

(Air 26°C/ Water 26°C/ Humidity 80%)

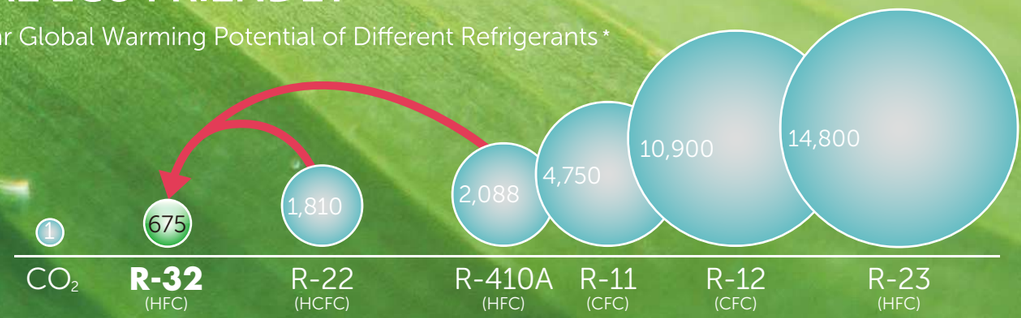
R32 ECO

What is R32 ?

R32 is a next generation refrigerant that efficiently carries heat and has lower environmental impact.
Refrigerant is a medium for conveying heat.
Heat Pump transfer heat while circulating refrigerant between heat exchanger and evaporator.
Although there are various types of refrigerants, R32 is a new refrigerant currently receiving the most interest. Compared to the refrigerants widely used today such as R22 and R410A, R32 has a global warming potential (GWP) that is one-third lower and is remarkable for its low environmental impact.

MORE ECO FRIENDLY

100 Year Global Warming Potential of Different Refrigerants *



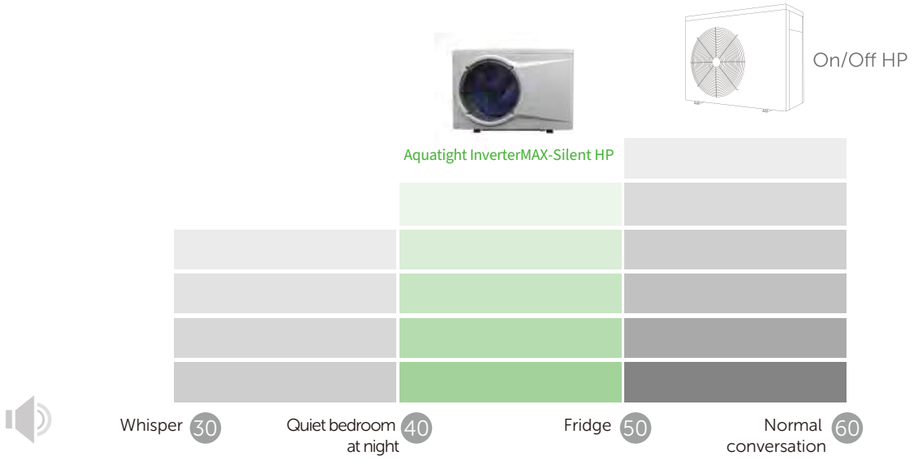
UNIQUE FULL-INVERTER® TECHNOLOGY

Aquatight InverterMAX – Silent HP is powered by Full-inverter® Technology. It adopts variable speed compressor & fan motor which adjusts the compressor speed hertz by hertz and fan speed round by round. The low-speed running philosophy of Aquatight InverterMAX – Silent can benefit the customers with higher COP and lower sound pressure.

1 Quieter Operation

-AVERAGE sound pressure 46 dB(A) at 1 m

When maintaining the desired pool temperature at 50% capacity, the AVERAGE sound pressure of an Aquatight InverterMAX – Silent HP is 46 dB(A) at 1 m, compared with sound pressure 56-60 dB(A) of an On/Off HP , it brings you 10 times quieter swimming environment.

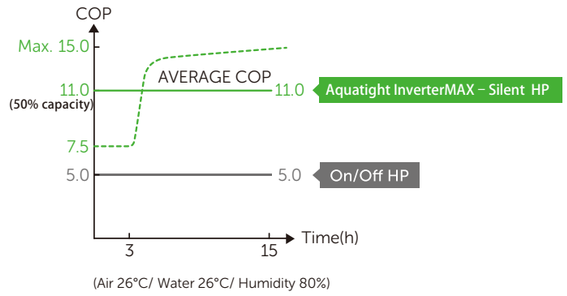


2 Double Energy Saving

-AVERAGE COP 11 at 50% capacity, Max. COP 15

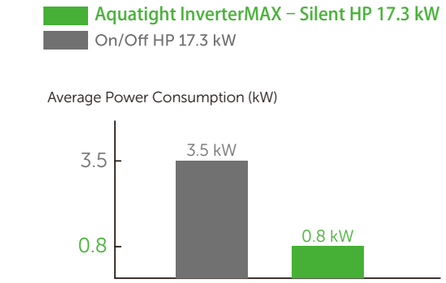
When maintaining the desired pool temperature at 50% capacity, the AVERAGE COP of an Aquatight InverterMAX – Silent is 11, while the COP of an On/Off HP is around 5, so it is double energy saving.

◆ COP in 15 hours' heating per day
(when maintaining pool temperature)

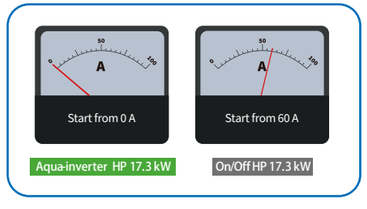


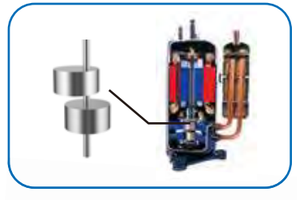
(Air 26°C/ Water 26°C/ Humidity 80%)

◆ Power consumption in 15 hours' heating per day
(e.g. 17.3kW at Air 26°C/ Water 26°C/ Humidity 80%)



3 Other Advantages





Soft start technology

Aqua-inverter HP with soft start technology: the current starts from 0 Amp to the full rated current over 2 minutes, to prevent overloading and triggering your safety RCD switch. On/Off HP: the current is 5 times of rated current, which can be a burden to the house electricity system.

Twin-Rotary DC-inverter Compressor

Full-inverter adopts twin-rotary DC-inverter compressor instead of single rotary compressor, The two rotors operate together to balance the movement of each other for anti-shaking, which provides higher efficiency, lower vibration & quieter operation.

DC-inverter Fan Motor

Full-inverter Control System controls DC brushless fan motor directly to ensure it works in the most precise & efficient way, it leads to a much lower noise and lower failure rate compared with the normal mechanical brushes fan motor.