

Ai  
FULL  
INVERTER  
HEAT PUMP



# AUSTRALIAN ENERGY SYSTEMS



Ai FULL INVERTER  
HEAT PUMP



[WWW.POOLHEATING.COM.AU](http://WWW.POOLHEATING.COM.AU)  
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# Ai FULL INVERTER HEAT PUMP

*my heated pool*



*50% more Efficient*

## Ai Full Inverter Heat Pump

Ai Inverter Heat Pumps are the smarter choice in swimming pool heat pumps. Using the Ai Full Inverter heat pump with smarter pool technology will heat your pool year-round, helping your family get the most from your pool. Our range of Ai heat pumps are the ideal solution for any size pool or spa, capable of heating your pool 365 days a year so your pool is ready when you are.

## What is Inverter Technology?

Using Full inverter technology, the heat pump compressor and fan can speed up and slow down depending on the pool temperature requirements. This intelligent control creates fantastic energy savings.

## What are the Benefits of Heat Pumps

- Operate all year round – heating and automatic mode to suit all pool temperature requirements and weather condition.
- Environmentally friendly – lower operating costs and noise levels.
- Full inverter technology – reduces heating times and running costs.
- Variable speed compressor – only drawing the power needed based on the pool heating requirements.
- Smart controls for temperature management.
- Wifi capabilities.
- Soft start – Increases power hertz-by-hertz.
- Extremely quiet – Quieter than an “8 star” pool pump.
- Energy efficient – Uses 50-80% less power than standard heat pumps.
- High COP - Greater energy efficiency.
- Blue Fin coating – anti corrosion technology.
- Spiral titanium heat exchanger ensures maximum heat transfer and provides up to 50% more efficiency.

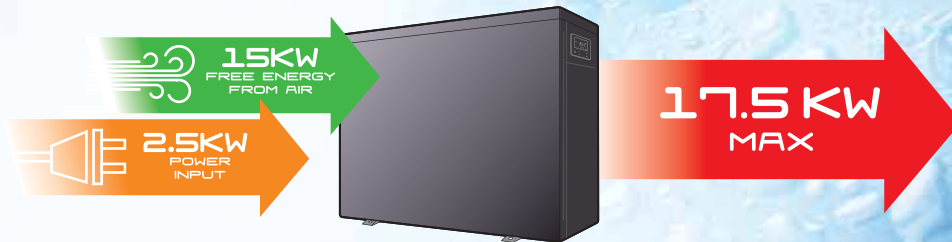


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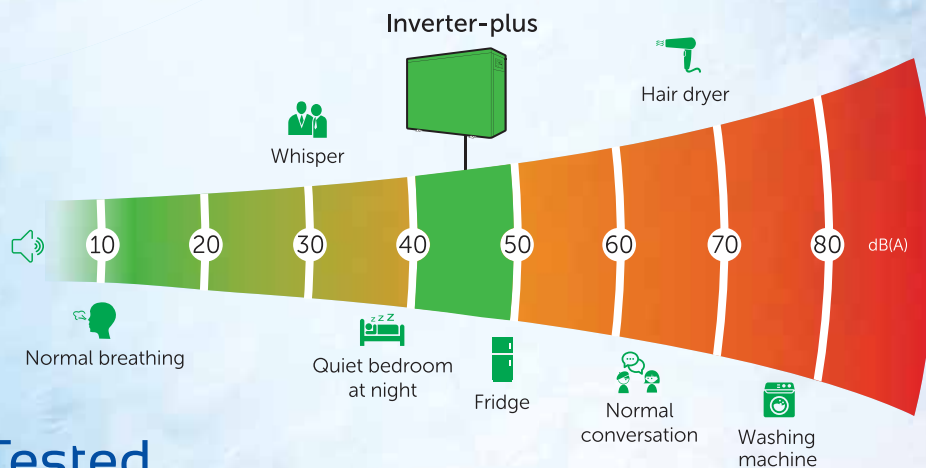
*Inverter technology –  
the smarter choice*

## What does COP mean?

**COP is a heating efficiency measure** used to compare the performance of heat pumps. The higher the COP, the less energy required to produce a certain amount of heat. For example, a COP of 15.0 means that for every 1kW of electricity consumed, 15kW worth of heat energy is produced.



Inverter-plus HP adopts super quiet **Mitsubishi** inverter compressor and full-inverter ventilation system, which offers you a 10 times quieter swimming environment when maintaining the pool temperature.



## Tested

All our heat pumps are **TUV Rheinland** tested for their output. We don't just claim they're quiet and super-efficient, we have them independently tested by the world class **TUV Rheinland** facilities to prove that our units deliver not just on quality but on the heating results too.

*Be in control of your fun*



When heating a pool, to get the most from your system we highly recommend using a pool cover. It is the most effective way to prevent heat loss and lower costs. A properly fitted pool cover will also keep your pool cleaner, saving costs not only on your heating but also on chemicals and maintenance.



# INVERTER-PLUS HEAT PUMP SPECIFICATIONS

Model	Ai13	Ai17	Ai21	Ai28	N/A	Ai35T
Performance Condition: Air 26°C / Water 26°C / Humidity 80%						
Heating capacity (kW)	13.5	17.5	21.5	28.2	27.8	36.5
Heating capacity (kW) in silence mode	10.6-3.4	14.0-4.4	17.0-5.4	22.1-7.1	22.0-7.0	29.2-9.2
C.O.P.	15.4	15.5	15.2	15.3	15.2	15.5
Performance Condition: Air 15°C / Water 26°C / Humidity 70%						
Heating capacity (kW)	9.5	11.5	14.5	18.3	18.2	24.2
Heating capacity (kW) in silence mode	7.6-2.3	9.0-2.8	11.5-3.4	14.9-4.6	14.8-4.5	19.5-6.2
C.O.P.	8.0-4.6	8.2-4.5	8.1-4.5	8.3-4.6	8.2-4.5	8.4-4.7
Rated input power (kW)	2.1-0.25	2.5-0.33	3.33-0.44	4.0-0.58	4.0-0.58	5.2-0.79
Rated input current (A)	9.1-1.1	10.9-1.4	14.5-1.9	17.4-2.5	5.8-0.8	8.0-1.1
Max input current (A)	11.0	13.5	17.5	21.0	7.0	9.5
Power supply	230V/1 Ph/50Hz			400V/3 Ph/50Hz		
Water flow LPM	85-115	105-140	130-165	165-200	165-200	200-300
Sound pressure 1m (dB(A))	42.8-52.1	44.2-52.9	44.7-53.8	48.6-55.5	48.6-55.5	49.6-55.8
Operating air temperature (°C)	-7-43					
Compressor	Twin Rotary Mitsubishi DC Inverter					
Heat exchanger	Titanium Spiral					
Casing			ABS			
Water pipe in-out spec (mm)			40			
Net dimension - LxWxH (mm)	961x312x658	961x392x658	961x392x758	1090x420x960	1090x420x960	1160x530x960
Net weight kg	50	58	68	89	89	108

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

