



# HEAT PUMP INVERTER RANGE

SUMMER POOL FUN, ALL YEAR ROUND




Extend your swimming season and swim all year round

Lower operating costs and noise levels

Reduce heating times and save on running costs

Wireless Wi-Fi control with your smartphone

R32 Refrigerant - Lower environmental impact

-   
ENVIRONMENTALLY FRIENDLY
-   
INVERTER TECHNOLOGY
-   
AQUA TEMP APP CONTROL



## WHAT ARE THE BENEFITS OF HEAT PUMPS?

Heat pumps absorb 80% of the heat from the air to heat your pool making it an easy to use and energy efficient heating option.

Heat Pumps allow your pool to stay consistently warm and comfortable to swim in, regardless of the outside weather temperature.

Maximise your pool usage through the year by extending swimming time. In some areas of Australia that can mean all year round!

AstralPool heat pumps use state of the art technology which means increased efficiency and reduced energy bills while also being environmentally friendly.

Extend your swimming season and swim all year round

Keeps your pool consistently warm



# HOW INVERTER TECHNOLOGY MAXIMISES THE BENEFITS OF HEAT PUMPS

## **GALVANIZED & POWDER COATED STEEL CABINET**

Long lasting galvanized and Powder coated steel cabinet for durability. The Pinnacle range also features a refined, screwless exterior design.

## **AUTOMATION**

Easy installation to most Automation systems. Plug & Play system for AstralPool's Halo and Connect 10

## **ADVANCED ELECTRONICS DESIGN**

Superior design integrates insect isolation architecture and optimized thermal pathways to ensure superior protection and efficient heat dissipation.

## **LCD SCREEN**

Water proof LED controller with intuitive control of settings.

## **WIFI CONTROL**

The Pinnacle range and Top Discharge heat pumps come included with WiFi. Also available as an optional add on for all other models.

## **QUALITY COMPONENTS**

High quality internal components including a Panasonic compressor.

## **WHISPER QUIET OPERATION**

The Pinnacle compressor features an advanced five-layer silencer casing, delivering industry-leading acoustic performance with noise levels as low as 27 decibels, making it the quietest heat pump in its class.





# MAKE SWIMMING A PLEASURE

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## ENVIRONMENTALLY FRIENDLY

AstralPool Heat Pumps are an environmentally friendly option to heat your pool. Operating on a similar principle to your refrigerator or air conditioner, Heat Pumps use environmentally friendly refrigerant gas that extracts the latent heat from the air and transfers this heat into the pool water.

## BUILT FOR AUSTRALIAN ENVIRONMENTS

Unlike many other heat pumps, the corrosion proof titanium heat exchanger is enclosed in a purpose designed and fully injection moulded housing for maximum strength and long life. The fully moulded plastic Heat Pump case is impervious to corrosion and guarantees maximum life regardless of location, "seaside" tropical north or outback.

## ENERGY EFFICIENT

For every 1 kW of electricity consumed, AstralPool Heat Pumps will collect up to 13 kW of heat from the atmosphere. Sunshine is not necessary and your Heat Pump will continue to heat your pool in air temperatures as low as 7 degrees. So even if the nights are cold, or the days leading up to the weekend are cool, your AstralPool Heat Pump can heat and maintain your pool water temperature at a comfortable swimming temperature.

## QUIET COMPRESSOR

A nearly silent compressor moves the refrigerant gas through a coil (called evaporator) through which air is forced and collects heat from the surrounding atmosphere. The now superheated refrigerant gas then passes through a titanium heat exchanger (called a condenser) which transfers the heat into the pool water and the cycle starts again.

## SIZING OPTIONS

AstralPool has a wide selection of heat pumps to suit virtually any size swimming pool, from small residential pools to large public pools. When choosing your heat pump, AstralPool recommends that you assess your lifestyle and determine when you want to use your pool.

If you wish to swim during the summer and shoulder season only, installing a small heat pump can save on upfront costs and ongoing operating costs. However, for all year round swimming, we have the right heat pump too, to ensure you can use your pool at any time of the year.

## WARRANTY

For product warranty registration & information on warranty details.

For AU visit: [www.astralpool.com.au/warranty](http://www.astralpool.com.au/warranty)

For NZ visit: [www.astralpool.co.nz/warranty](http://www.astralpool.co.nz/warranty)

# R32 GAS HEAT PUMPS

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## LOWER ENVIRONMENTAL IMPACT

R32 heat pump systems use up to 20% less refrigerant than R410A equivalents, making the Heat Pumps more efficient, which means lower carbon emissions and lower energy costs.

R32 offers higher efficiency and longer pipe runs and requires less refrigerant volume per Kw. This means quicker heating times and less energy used to heat up your pool.

## THE KEY THINGS YOU NEED TO KNOW ABOUT R32:

Reduced electricity  
consumption  
by 10%

Save energy and  
speed up heating  
time



Efficiently  
carries heat

Lower environmental  
impact



## AQUA TEMP

### WIFI CONTROL ON THE GO

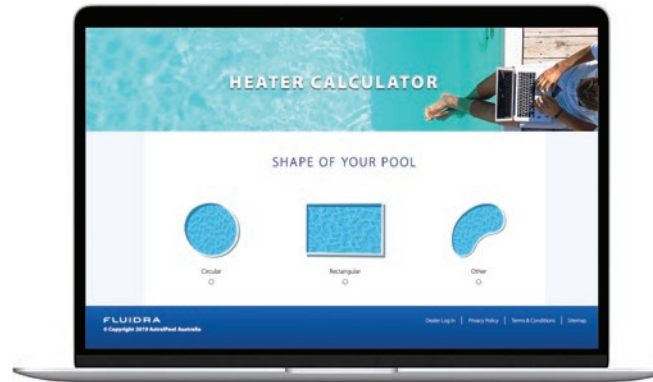
Monitor and set your pool's temperature even if you're away on a business trip or holiday through your home's WiFi. With the Aqua Temp app (available for Android and iOS devices), your pool temperature will always be right at your fingertips wherever you are!



Aqua Temp



\* Wifi capability included in Viron Inverter and Top Discharge Heat Pump range. Available as an optional add-on ECO models.



## HOW TO SELECT THE BEST HEAT PUMP FOR YOUR NEEDS

Try the AstralPool "Heat Pump Calculator" on our website at [www.astralpool.com.au/support/heat-pump-calculator](http://www.astralpool.com.au/support/heat-pump-calculator) (or [www.astralpool.co.nz/support/heat-pump-calculator](http://www.astralpool.co.nz/support/heat-pump-calculator) for New Zealand customers) and with three simple steps select a suitable Heat pump option available specific to your pool and lifestyle.

**Step 1** Select your pool shape and Size

**Step 2** Select your pool location to get an average temperature

**Step 3** Select your desired water temperature

Along with the "AstralPool Heat Pump calculator", use the Heat Pump sizing guide to select the model of AstralPool Heat Pump to suit your pool and lifestyle. Alternatively, visit your local AstralPool dealer for expert advice on the heat pump that suits you.



## PINNACLE INVERTER

Model	iHP SD 107	iHP SD 125	iHP SD 153	iHP SD 217	iHP SD 250	iHP SD 315
Model Code	78581	78582	78583	78584	78585	78586
<b>Performances: Air at 27°C / water at 26°C / humidity at 80%</b>						
Operating power (27°C / 26°C / 80%) kW	10,7-2,65	12,5-4,06	15,3-4,0	21,7-5,27	25-4,6	31,5-7,8
Consumed power (27°C / 26°C / 80%) kW	1,67-0,12	1,82-0,19	2,25-0,2	3,5-0,28	3,71-0,24	4,63-0,36
COP	6,41-22,3	6,87-22,1	6,8-21,8	6,2-21,1	6,1-20,8	6,8-21,8
<b>Performances: Air at 15°C / water at 26°C / humidity at 70%</b>						
Operating power (15°C / 26°C / 70%) kW	7,6-1,9	9,6-3,0	12,0-3,0	17-4,65	19,5-4,6	24,5-7,0
Consumed power (15°C / 26°C / 70%) kW	1,4-0,3	1,8-0,5	2,3-0,45	3,5-0,7	3,8-0,75	4,9-1,1
COP	5,41-13,66	5,2-13,28	5,1-13,5	5-13,46	5,03-13,16	5-13,45

	78581	78582	78583	78584	78585	78586
<b>EN 17645 SCOP</b>	7.9	7.4	7.4	7.3	7.4	7.2
<b>Nominal Operating Power A</b>	5.89	7.92	9.74	15.5	16.15	8.76
<b>Max Operating Power A</b>	10.72	12.8	15	17.1	23.09	10.75
<b>Acoustic Power (dB(A))</b>	61-52	62-53	64-57	65-56	68-61	68-61
<b>Acoustic Pressure at 10m dB(A)</b>	33-23	33-23	34-25	34-24	35-27	35-28
<b>Recommended Water Flow m<sup>3</sup>/h</b>	4.3	5.3	6.5	9.6	10.3	12.3
<b>Weight (kg)</b>	82	87	105	122	150	155
<b>Dimensions (mm)</b>	1061x787x467	1061x787x467	1161x885x500	1162x885x500	1351x983x530	1351x983x530

Technical Specifications	
Operating Temp Air	from -15 to 43°C
Operating Temp Water (heating)	15 to 35°C
Operating Temp Water (cooling)	8 to 35°C
Operating Pressure Refrigerant	0,5 to 42 bar (0,05 to 4,2 MPa)
Operating Pressure Water	0 to 2 bar (0 to 0,2 MPa)
Power Supply	220-240 V / 1 phase / 50 Hz (78581-78585); 380-415 V / 3 phase / 50 Hz (78586)
Admissible Variation in Voltage	±6%
Hydraulic Connections	2 PVC unions Ø40 NB
Refrigerant Fluid	R32
Protection Rating	IPX4



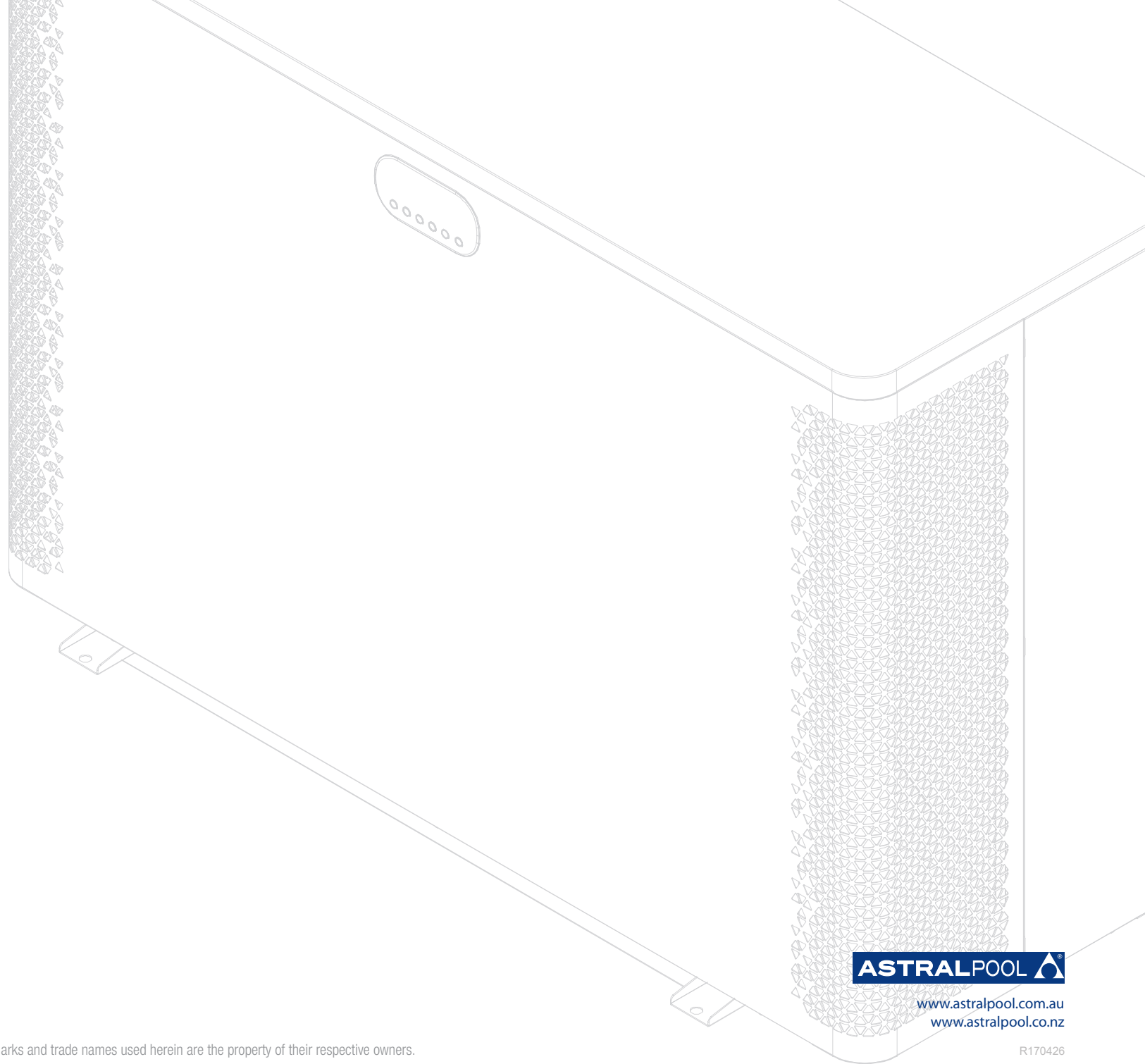
## ECO LITE INVERTER

Model	ECOLite 12kW	ECOLite 16kW	ECOLite 18kW	ECOLite 24kW	
Product Code	WH000641	WH000642	WH000643	WH000655	
Operating air temperature (deg.C)	-7°C ~ 43°C				
Refrigerant	R32				
<b>Performance Data</b>					
Air 27°C / Water 26°C / Humidity 80%	Heating Capacity (kW)	3.5-12.26	2.9-15.48	3.1-18.01	3.6-24.6
	COP	12.7-6.04	12.9-6.01	13.0-5.68	15-6.32
Air 15°C / Water 26°C / Humidity 70%	Heating Capacity (kW)	1.78-9.95	2.2-11.4	2.4-13.8	4.1-18.6
	COP	7.2-4.6	7.2-4.7	7.4-4.7	7.2-4.81
Air 35°C / Water 29°C / Humidity 70%	Cooling Capacity (kW)	2.45-3.64	3.66-6.80	4.41-7.65	4.95-12.30
	EER	3.05-2.96	3.11-2.91	2.89-2.50	3.21-2.86
<b>Technical Data</b>					
Power Supply	220-240V / 50Hz				
Power Phase	Single Phase				
Rated Input Power (kW)	2.03	2.57	3.17	3.89	
Running Max current (A)	10.51	14.92	15.72	22.5	
Fan Quantity	1	1	1	1	
Fan speed (rpm)	500-850	500-750	500-750	500-800	
Sound Pressure 1m dBA	37.6-49.5	40-52	49.2-52.5	44-53	
Sound Pressure 10m dBA	22-34	24-36	25-46	25-46	
Water Connections (mm)	40				
Minimum Water Flow Volume (m3/hr)	5.2	6.3	7.4	10	
Water pressure drop (max) (kPa)	3	6	6	14	
Compressor Brand	Gree inverter compressor				
Net Dimensions L/W/H (mm)	888*360*608	1002*453*767.5	1002*453*767.5	1161x490x865	
Package dimensions (mm)	970*410*630	1130*485*780	1130*485*780	1210*515*1010	
Net weight (kg)	44	57	59	92	



## TOP DISCHARGE

Model	iHPT127	iHPT168	iHPT247	
Product Code	78578	78579	78580	
Operating air temperature (deg.C)	-15°C-43°C			
Refrigerant	R32			
<b>Performance Data</b>				
Air 27°C / Water 26°C / Humidity 80%	Heating Capacity (kW)	3.08-13.50	3.61-16.5	6.77-24.09
	COP	16.02-6.55	16.33-6.45	16.12-6.77
Air 15°C / Water 26°C / Humidity 70%	Heating Capacity (kW)	2.37-10.61	2.63-12.92	4.82-18.63
	COP	7.58-5.05	7.78-5.05	7.78-5.07
Air 35°C / Water 29°C / Humidity 70%	Cooling Capacity (kW)	2.04-6.53	2.23-7.7	2.09-8.04
	EER	4.08-3.30	5.26-3.95	4.62-6.32
<b>Technical Data</b>				
Power Supply	220-240 V / 50 Hz - 1 phase			
Fan Quantity	1	1	1	
Fan speed (rpm)	600-750	700-800	700-800	
Rated current (A)	11.01	13.44	19.42	
Sound Pressure 1m dBA	43-52	38-52	47-56	
Sound Pressure 10m dBA	23-32	28-32	27-36	
Water Connections (mm)	40			
Water Flow Volume (m3/hr)	6	7.5	10	
Water pressure drop (max) (kPa)	6.7	8.5	18	
Net Dimensions L/W/H (mm)	600x600x925	600x600x925	690x690x1090	
Net weight (kg)	75	79	125	
Compressor Brand	Panasonic			



**A Fluidra Brand**

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**ASTRALPOOL** 

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