



POOL & SPA HEAT PUMP CATALOGUE

HEATING & COOLING SOLUTIONS



What does COP mean and Why It Matters for Pool Heating

Cop stands for (coefficient of performance) the higher the number the better the efficiency.

The cop number determines the energy efficiency of a pool heat pump. It is energy in to the unit in kw vs heating output also in kw.

A cop of 1 = 1 kw of electricity produces 1 kw of heat output (no efficiency gain)

A cop of 3 = 1 kw of electricity produces 3 kw of heat output (2 x efficiency gain)

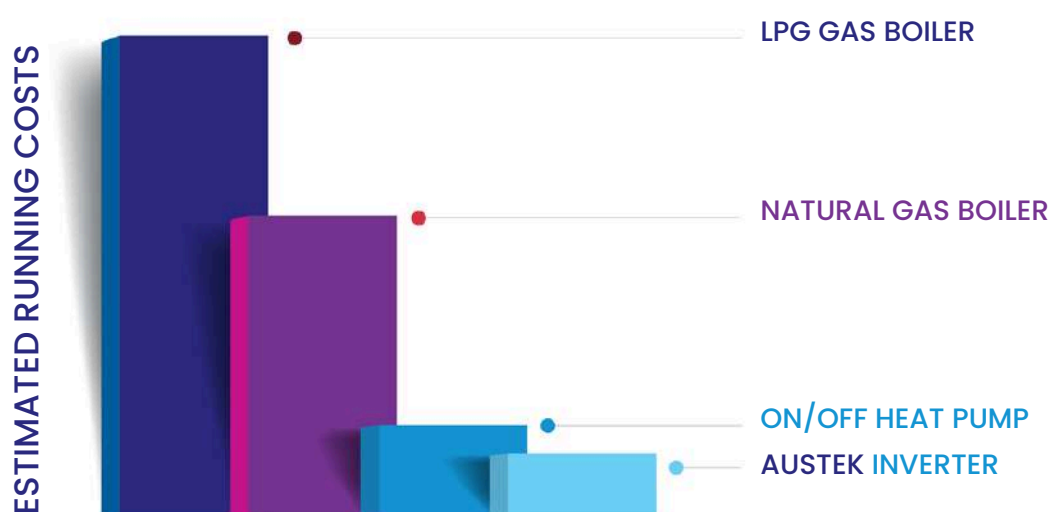
Effectively your heat pump turns electricity into usable heat for your pool at a rate which is determined by the cop.

A heat pump with a higher cop provides more heating for less electricity-saving you money and reducing environmental impact.

As an example we will use the austek thermomax v3 22kw – there are many factors that affect cop such as ambient air temperature humidity levels.

In a controlled laboratory environment the thermomax v3 22kw pool heat pump reached a cop of 22 meaning it delivers 22kw of heating for every 1 kw of electricity used. That's twenty two times more efficient than traditional electric heaters! The real world cop will vary depending on temperature humidity and operating conditions air flow and other variables.

Its best practice to compare cop ratings with conditions similar to your local climate to make the most efficient choice.



Austek Enviro

The Enviro delivers powerful, energy-efficient heating designed for Aussie pools without being hard on the environment. It also does this with a lower acquisition cost than other models. Engineered for performance, reliability, and sustainability, it still boasts a COP of 18 it's the perfect way to extend your swim season or heat year round—without blowing out your energy bills.



Smooth Power-Up Start

Austek Enviro begins operation at 0 amps and gradually ramps up power, safeguarding your electrical system from sudden surges.



Weather-Resistant ABS Casing

Durable, UV-stabilised and anti-corrosion ABS outer casing ensures long-lasting protection in all climates with a compact footprint.



Dual Performance Modes

Switch between Boost Mode for fast pool heating and Silence Mode for ultra-quiet operation—perfect for any time of day.



Precision Inverter Control

Equipped with a dedicated inverter system tailored for pool heating, delivering precise temperature control with greater energy efficiency.



Wi-Fi Enabled with App Integration

Monitor and control your pool heat pump from anywhere with integrated Wi-Fi and an intuitive smartphone app.



Optimised Refrigerant Flow

An advanced Electronic Expansion Valve (EEV) adjusts refrigerant flow in real time, improving system performance and efficiency.



Twisted Titanium Heat Exchanger

High-efficiency twisted titanium coil maximizes heat transfer, improving energy output by up to 40% compared to standard designs.



Variable-Speed DC Compressor

The full stepless DC inverter compressor ensures quiet operation, higher efficiency, and smoother performance.



Low-Temperature Performance

Engineered to perform reliably down to 0°C, making it ideal for use year-round—even in colder climates.

Model	Retail inc GST
Austek Enviro 13kw	\$4,125
Austek Enviro 18kw	\$5,238
Austek Enviro 21kw	\$6,244
Austek Enviro 25kw	\$7,176
Austek Enviro 28kw	\$8,216
Austek Enviro 32kw	\$10,348



Austek Enviro Technical Specification

Model No. Austek Enviro		13kw	18kw	21kw	25kw	25kw	32kw
Refrigerant	/	R32					
Power Supply	/	220-240V~/50Hz					
Performance Condition: Air Temperature 27°C, Inlet Water Temperature 26°C, Humidity 80%							
Heating Capacity	kW	13.15	18.30	21.30	25.29	28.44	31.71
COP	W/W	6.32~18.06	6.33~18.08	6.36~17.52	6.40~17.97	6.31~18.03	6.28~18.29
Performance Condition: Air Temperature 15°C, Inlet Water Temperature 26°C, Humidity 70%							
Heating Capacity	kW	9.66	13.22	14.50	17.41	18.79	22.02
COP	W/W	5.19~8.43	5.33~8.45	5.23~8.68	5.21~8.34	5.59~8.42	5.24~8.19
Operating Air Temperature	°C	-10~43					
Rated Power Input	kW	0.18~2.08	0.25~2.89	0.27~3.35	0.30~3.95	0.32~4.51	0.38~5.05
Rated Current Input	A	0.78~9.0	1.1~12.6	1.2~14.6	1.3~17.2	1.4~19.6	1.7~22.0
Compressor	/	Mitsubishi					
Sound Level (1m)	dB(A)				40.8~51.6	41.2~52.1	42.3~52.5
Sound Level (10m)	dB(A)				20.8~31.6	21.2~32.1	22.3~32.5
Max. Current Input	A				20.5	25.0	28.0
Advised Water Flow	m3/h	5.5	7.5	9.0	10.5	12.0	13.5
Water Pressure Drop	kPa	16	20	35	35	38	40
Water Connection	mm	48.3					

Austek Ascend Series

The Ascend Top discharge Inverter Pool Heat Pump series are built to perform—so even when the mercury drops to 0°C the Ascend keeps going. Engineered for efficiency in cooler climates their compact footprint makes them the perfect choice when space is limited, the Ascend Series is perfect for swimming pools, plunge pools, swim spas, and spas. Whether you want to extend your swim season or enjoy your pool all year long, Ascend delivers powerful, reliable heating when you need it most also coming in larger sizes for the commercial or large residential pools.



Soft Start

Austek Ascend begins operation at 0 amps, gradually increasing to protect your electrical systems from sudden surges.



Cold Weather Operation

Engineered to perform in temperatures as low as -10°C, allowing you to extend your swimming season well into the winter months.



Built-in Wi-Fi

Enjoy the convenience of controlling your pump anytime, anywhere with integrated Wi-Fi and a dedicated smart app.



Full Stepless DC Compressor

Delivers ultra-quiet operation thanks to its stepless variable-speed technology.



Electronic Expansion Valve

Maximizes refrigerant flow efficiency, increasing COP by up to 20% for superior performance.



Twisted Titanium Heat Exchanger

Designed for maximum surface contact, offering 40% greater efficiency in heat exchange.



Smart & Quick Defrosting

Austek Ascend features an intelligent reverse cycle defrosting system that automatically detects frost build-up and initiates defrost mode to maintain optimal performance.

Model	Retail inc GST
Ascend 18kw	\$6,120
Ascend 26kw	\$8,626
Ascend 30kw	\$10,874
Ascend 35kw	\$14,272



TECHNICAL PARAMETERS

Austek Ascend Series Technical Specification

Model No.	Austek Ascend	18kw	26kw	30kw	35kw
Refrigerant	/	R32			
Power Supply	/	220-240V~/50Hz			380-415V/ 3N~/50Hz
Performance Condition: Air Temperature 27°C, Inlet Water Temperature 26°C, Humidity 80%					
Heating Capacity	kW	18.05	26.13	30.32	35.24
COP	W/W	18.12-6.16	18.56-6.30	18.30-6.23	18.11-6.32
Performance Condition: Air Temperature 15°C, Inlet Water Temperature 26°C, Humidity 70%					
Heating Capacity	kW	13.09	18.11	21.37	24.39
COP	W/W	8.55~5.24	8.42~5.14	8.58~5.28	8.54~5.25
Operating Air Temperature	°C	-15~43			
Rated Power Input at 15°C	kW	0.38~2.50	0.52~3.52	0.60~4.05	0.69~4.65
Compressor	/	Mitsubishi			
Sound Level (1m)	dB(A)	42.1~52.3	45.8~55.3	47.3~57.3	49.1~59.6
Sound Level (10m)	dB(A)	22.1~32.3	25.8~35.3	27.3~37.3	29.1~39.6
Max. Current	A	16.5	20.5	28.0	11.5
Advised Water Flow	m³/h	7.5	11.0	13.0	15.0
Water Pressure Drop	kPa	20	35	38	45
Water Connection	mm	48.3			

Austek Thermomax v3 Series

The Thermomax V3 Series represents the pinnacle of energy-efficient pool heating with a COP of 22 across all sizes the highest efficiency of any brand Featuring advanced inverter technology and a durable design, it delivers powerful, reliable performance all year round. Perfect for both residential and commercial pools, Thermomax keeps your water at the ideal temperature while dramatically reducing energy costs.



Premium Side Discharge



Single side air discharge, Thermomax V3 has industry leading side discharge which maximizes air flow drawing air from the back then through a centrifugal fan and out the left hand side effective for limited space installations



Sleek & Durable Outer Shell

Crafted with an elegant and robust casing, Thermomax combines premium aesthetics with weather resistance—offering protection against corrosion, UV damage, and the elements.



Seamless System Integration

Effortlessly integrates with most pool automation systems, ensuring easy setup and synchronized performance



Cold Climate Performance to -15°C

Built to withstand extreme temperatures, Thermomax operates reliably down to -15°C—perfect for year-round pool enjoyment.



Smart Wi-Fi Control

With integrated Wi-Fi and mobile app support, you gain convenient, remote access to monitor and control your heat pump from anywhere.



Auto-Defrost Function

Thermomax features intelligent reverse-cycle defrosting that senses frost accumulation and automatically activates defrost mode to preserve efficiency and heating output.

Model	Retail inc GST
Thermomax V3 22kw	\$7,828
Thermomax V3 26kw	\$8,844
Thermomax V3 32kw	\$11,419



TECHNICAL PARAMETERS

Model No.	Austek thermomax	22kw	26kw	32kw
Refrigerant	/	R32		
Power Supply	/	220-240V~/50Hz		
Performance Condition: Air Temperature 27°C, Inlet Water Temperature 26°C, Humidity 80%				
Heating Capacity	kW	22.09	26.03	32.21
COP	W/W	22.14~7.24	22.04~7.44	22.09~7.25
Performance Condition: Air Temperature 15°C, Inlet Water Temperature 26°C, Humidity 70%				
Heating Capacity	kW	15.05	17.90	22.51
COP	W/W	8.78~5.64	8.91~5.61	8.70~5.59
Operating Air Temperature	°C	-20~43		
Rated Power Input at 15°C	kW	0.41~2.67	0.45~3.19	0.57~4.03
Compressor	/	Mitsubishi		
Sound Level (1m)	dB(A)	38.1-47.1	38.9~47.8	39.7~48.6
Sound Level (10m)	dB(A)	18.1-27.1	18.9~27.8	19.7~28.6
Max. Current	A	18.5	20.5	28.0
Advised Water Flow	m ³ /h	9.5	11.0	14.0
Water Pressure Drop	kPa	35	35	40
Water Connection	mm	48.3		

Austek Atlas Series

The Atlas Series delivers powerful, energy-efficient heating built for high-demand commercial pools and aquatic facilities. Engineered for durability, reliability, and year-round performance, it's designed to handle resorts, water parks, hotels, and large indoor pools with ease. With advanced commercial-grade technology and scalable capacity, the Atlas Series maintains consistent water temperatures while helping reduce operational costs across large-scale applications.



Gentle Power Start

Starts smoothly from zero amps, reducing electrical stress and protecting system components from sudden power surges.



Winter-Ready Performance

Engineered to perform reliably in low temperatures, extending usability even in challenging climate conditions.



Smart Wi-Fi Control

Allows remote control and monitoring through a smart app for greater convenience and system management.



Precision DC Drive

Delivers smooth, ultra-efficient operation with precise speed control for stable performance and lower energy use.



Optimized Refrigerant Flow

Electronic expansion control that fine-tunes refrigerant delivery for improved efficiency and performance.



High-Efficiency Heat Exchange

Twisted titanium design maximizes surface contact for faster, more effective heat transfer.



Intelligent Frost Control

Smart reverse-cycle defrost system that automatically clears ice build-up to maintain consistent operation.

Model	Retail inc GST
Atlas 60kw	\$19,879
Atlas Commercial 120kw	\$36,387
Atlas Commercial 250kw	\$87,587



Model Name			Atlas 60kw	Atlas Commercial 120kw	Atlas Commercial 250kw
Air: 27°C Water: 26°C Humidity: 80%	Heating Capacity	kW	60.8	120.5	250.2
	COP	W/W	18.15~6.44	18.07~6.54	18.09~6.39
Air: 15°C Water: 26°C Humidity: 70%	Heating Capacity	kW	41.3	80.7	182.9
	COP	W/W	8.68~5.10	8.87~5.07	8.41~5.35
Operating Air Temperature		°C		-20~43	
Rated Power Input		kW	0.81~9.44	1.61~18.43	3.14~39.15
Rated Current Input		A	1.37~15.94	2.72~31.11	5.30~66.09
Max. Power Input		kW	17.8	36.7	74.0
Max. Current Input		A	30	62	125
Compressor		/		HITACHI Scroll Inverter	
Fan Motor		/		Inverter	
Sound Level	at 1m	dB(A)	52~62	54~65	60~71
	at 10m	dB(A)	32~42	34~45	40~51
Advised Water Flow		m³/h	20~25	40~50	80~100
Water Pressure Drop		kPa	40	60	110
Water Connection		mm	60.3	88.9	88.9
Net Weight		kg	198	385	776
Gross Weight		kg	230	387	778
Net Dimensions (L*W*H)		mm	1300*520*1510	1200*1150*2350	2145*975*2400
Packing Dimensions (L*W*H)		mm	1400*670*1680	1300*1235*2350	2250*1060*2400



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