



Atecpool Reversible Cycle Heat Pump

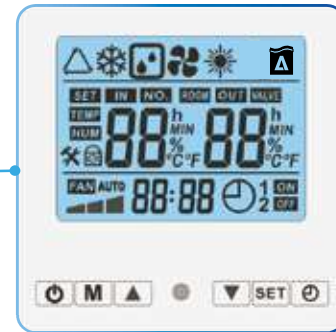
Air/Water Heat Pumps

Heating and Cooling



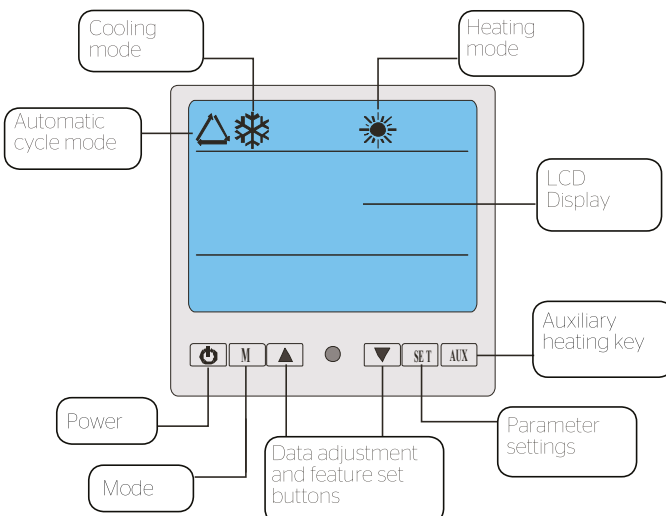
Atecpool Air/Water Heat Pump

Outdoor Installation



Atecpool Air/Water Heat Pump

- Atecpool Reversible cycle heat pump can be used for heating and cooling swimming pools, spas or other water bodies.
- RCHP technology is based on the same principle employed in air conditioners and refrigerators, delivering up to five times more energy in heat than it consumes as electricity. Our heat pumps are designed to heat your pool by extracting ambient heat from the atmosphere. This heat is then transferred into a refrigerant gas which is compressed and heated further. The heat is then transferred into the pool water, and heats your pool.
- With a Coefficient of Performance (COP) of greater than 5.8 at an air temperature of 26°C and over 4.5 at just 15°C, ATECPOOL heat pumps are 15-30% more efficient than competitive units. This remarkable efficiency can save up to 80% on running costs when compared to alternative gas or electric pool heating.
- 16 programs with synchronization capability.
- 2 Years manufacturer warranty.
- Whisper-quiet operation
- Quality, reliability and durability
- Our Heat Pumps are manufactured using only top-quality components. The titanium heat exchanger is not only extremely efficient, but it will never rust or corrode. Our heat pumps also feature more accurate and durable commercial grade digital controllers with the most user-friendly features, specific water flow switches and high capacity compressor capacitors.

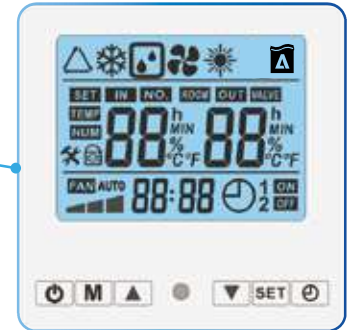


**Let's start swimming
all year round!**

Reversible Cycle Heat Pump

Outdoor Installation

Atecpool Air/Water Heat Pump



ATECPOOL Heat Pump Benefits

- Uses freely available air energy = 4-5 times more effective than conventional electrical heaters.
- For every kW of power consumed, you get at least 4-5kW of free power
- Inexpensive to run
- Incredibly efficient Japanese inverter technology
- Quietest operation
- Top quality, maximum durability titanium heat exchanger
- Installation is quick and easy

External Heat Exchanger (Evaporator coils)

- The tubes are made of copper and the fins are aluminium.
- The extra-large evaporator coils are designed to collect more heat from air outside to ensure the best performance in even the most adverse conditions.
- Large axial fans, with precision engineered blades are used to draw in maximum ambient air and pass it on to the evaporator coils.

Refrigerant

- We use the environmentally approved refrigerant R407-C, R410-A, R134-A depending on our client's requirements.
- For maximum efficiency you can combine your reversible cycle heat pump and solar pool heating in one system to capitalise on the sun's free energy as well as that from the ambient air. All components of ATECPOOL heat cool pumps are of the highest international quality.

Water Heat Exchanger

- Made of double spiralled titanium tubes encased in PVC or S.S. for additional protection against corrosive pool water.
- The double spiraling of the heat exchanger increases the surface area that comes in contact with the pool water, this drastically reduces scaling while heating rapidly and efficiently.

Reversible Cycle Heat Pump

Outdoor Installation

Atecpool Air/Water Heat Pump Specification		Model / Code						
		03310020H	03300030	03300040	03300050	03300060	03310070	03300080
Heating capacity	kW	8.8	13	17	21	25	35	45
	BTU /hr	30000	44000	58000	72000	86000	120000	150000
Heating Power Input	kW	1.9	2.65	3.7	4.6	5	7.5	9.5
Cooling Capacity	kW	5.8	8.8	12	14.5	17.4	25	34
	BTU /hr	19720	30000	41000	49500	59500	86000	116000
Cooling Power Input	kW	2.1	2.85	3.9	5.2	5.8	8.4	9
Running current	A	8.6 / 9.6	13.6 / 14.3	18.0 / 19.1	7.1 / 7.35	8.91 / 10.33	13.2 / 14.5	15.7 / 16.4
COP		5.1	5.1	5.0	5.0	5.1	5.0	4.9
Power Supply	V / PH / HZ	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	415V/3N-/50Hz	415V/3N-/50Hz	415V/3N-/50Hz	415V/3N-/50Hz
Compressor Quantity		1	1	1	1	1	2	2
Compressor		Rotary	Rotary	Scroll	Scroll	Scroll	Scroll	Scroll
Fan Quantity		1	1	1	1	1	2	2
Fan Input Power	W	150	200	200	200	200	200 x2	200 X 2
Fan Rotate Speed	rpm	850	830	830	830	830	830	830
Fan Airflow	cfm	3330	6960	6960	6960	6960	13920	13920
Fan direction		Horizontal	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
Noise	dB (A)	50	51	51	51	54	59	61
Water connection	mm	50	50	50	50	50	50	63
Water Flow volume	m ³ /h	3	6	7.5	8	9	10	14
Water pressure drop (max)	kPa	8	8	10	12	12	15	15
Unit net dimensions (L/W/H)	mm	1010*420*650	660*660*860	660*660*860	660*660*860	660*660*860	1448*725*976	1450*730*1250
Unit net weight	kg	77	86	100	125	150	200	250

Atecpool Air/Water Heat Pump Specification		Model / Code						
		03300090	03310100	03310110	03310120	03310130	03310140	03310160
Heating capacity	kW	55	75	90	105	145	160	210
	BTU /hr	187000	255000	306000	357000	493000	550000	714000
Heating Power Input	kW	11	16.7	17.5	22.5	30.2	34.2	46.3
Cooling Capacity	kW	42	56	70	88	106	120	150
	BTU /hr	143000	190400	238000	300000	360400	410000	510000
Cooling Power Input	kW	10.3	17.2	17.8	24.7	32.1	41.6	56.2
Running current	A	18.0 / 19.2	29.8 / 30.6	31.2 / 31.7	40.1 / 44.0	53.9 / 57.3	61.0 / 74.2	81.8 / 99.1
COP		4.9	4.49	4.7	4.5	4.80	4.7	4.5
Power Supply	V / PH / HZ	415V/3N-/50Hz	415V/3N-/50Hz	415V/3N-/50Hz	415V/3N-/50Hz	415V/3N-/50Hz	415V/3N-/50Hz	415V/3N-/50Hz
Compressor Quantity		2	3	3	4	3	3	3
Compressor		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Fan Quantity		2	3	3	3	3	2	2
Fan Input Power	W	200 X 2	200 X 3	200 X 3	200 X 3	550 X 3	1780X 2	1870X 2
Fan Rotate Speed	rpm	830	830	830	830	870	930	980
Fan Airflow	cfm	13920	19500	19500	19500	22500	22500	30000
Fan direction		Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
Noise	dB (A)	61	61	62	62	64	65	65
Water connection	mm	63	63	63	110	110	110	110
Water Flow volume	m ³ /h	18	25	30	32	36	40	60
Water pressure drop (max)	kPa	15	16	16	16	23	24	24
Unit net dimensions (L/W/H)	mm	1450*730*1280	2150*760*1310	2150*760*1310	2170*1065*1930	2170*1065*2100	2170*1065*2100	2850*1108*2220
Unit net weight	kg	265	360	370	695	725	761	930

Data sheet is based on capacities:

Cooling: Ambient air temperature: 42° / 36° C - Water temperature: 33° C // **Heating:** Ambient air temperature: 23° / 18° C - Water temperature: 26° C

