Atecpool Air/Water Heat Pump

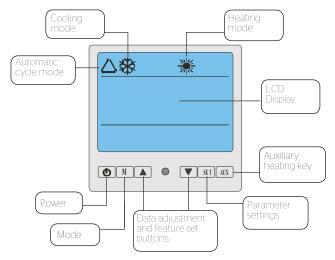
Outdoor Installation



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 topquality 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

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.

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 suns free energy as well as that from the ambient air. All components of ATECPOOL heat cool pumps are of the highest international quality.

Reversible Cycle Heat Pump Outdoor Installation

		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		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	- <u></u>	7.1 / 7.35	8.91 / 10.33	13.2 / 14.5	
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~/50H;
Compressor Quantity		1	1	1	1	1	2	2
 Compressor		Rotory	Rotory	Scroll	Scroll	Scroll	Scroll	Scroll
Fan Quantity		1	1	1	1	1	2	2
Fan Input Power		- 	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
Voise	dB (A)	50	51	51	51	54	59	61
Water connection	mm	- 50 50	50	50	50	50	50	63
Water Flow volume	. m³/h	3	6	- 7.5	8	9	10	14
Water pressure drop (max)	kPa	- 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
Jnit net weight	kg	- 	86	100	125	150	200	250
		03300090	03310100	03310110				
Heating capacity					03310120	03310130	03310140	03310160
	kW	55	75	90	105	145	160	210
Heating Power Input	BTU /hr	187000	255000	90 306000	105	145 493000	160	210 714000
	BTU /hr	187000	255000	90 306000 17.5	105 357000 22.5	145 493000 30.2	160 550000 34.2	210 714000 46,3
	BTU /hr kW kW	187000 11 42	255000 16.7 56	90 306000 17.5 70	105 357000 22.5 88	145 493000 30.2 106	160 550000 34.2 120	210 714000 46,3 150
Cooling Capacity	BTU /hr kW kW BTU /hr	187000 11 42 143000	255000 16.7 56 190400	90 306000 17.5 70 238000	105 357000 22.5 88 300000	145 493000 30.2 106 360400	160 550000 34.2 120 410000	210 714000 46.3 150 510000
Cooling Capacity Cooling Power Input	BTU /hr kW kW BTU /hr kW	187000 11 42 143000 10.3	255000 16.7 56 190400 17.2	90 306000 17.5 70 238000 17.8	105 357000 22.5 88 300000 24.7	145 493000 30.2 106 360400 32.1	160 550000 34.2 120 410000 41.6	210 714000 46.3 150 510000 56.2
Cooling Capacity Cooling Power Input Running current	BTU /hr kW kW BTU /hr	187000 11 42 143000 10.3 18.0 / 19.2	255000 16.7 56 190400 17.2 29.8 / 30.6	90 306000 17.5 70 238000 17.8 31.2 / 31.7	105 357000 22.5 88 300000 24.7 40.1 / 44.0	145 493000 30.2 106 360400 32.1 53.9 / 57.3	160 550000 34.2 120 410000 41.6 61.0 / 74.2	210 714000 46,3 150 510000 56,2 81,8 / 99,1
Cooling Capacity Cooling Power Input Running current COP	BTU /hr kW kW BTU /hr kW A	187000 11 42 143000 10.3 18.0 / 19.2 4.9	255000 16.7 56 190400 17.2 29.8 / 30.6 4.49	90 306000 17.5 70 238000 17.8 31.2 / 31.7 4.7	105 357000 22.5 88 300000 24.7 401 / 44.0 4.5	145 493000 30.2 106 360400 32.1 53.9 / 57.3 4.80	160 550000 34.2 120 410000 41.6 61.0 / 74.2 4.7	210 714000 46,3 150 510000 56,2 81,8 / 991 4,5
Cooling Capacity Cooling Power Input Running current COP Power Supply	BTU /hr kW kW BTU /hr kW	187000 11 42 143000 10.3 18.0 / 19.2 4.9 415V/3N-/50Hz	255000 16.7 56 190400 17.2 29.8 / 30.6 4.49 415V/3N-/50Hz	90 306000 17.5 70 238000 17.8 31.2 / 31.7 4.7 415V/3N-/50Hz	105 357000 22.5 88 300000 24.7 40.1 / 44.0 4.5 415V/3N-/50Hz	145 493000 30.2 106 360400 32.1 53.9 / 57.3 4.80 415V/3N-/50Hz	160 550000 34.2 120 410000 41.6 61.0 / 74.2 4.7 415V/3N-/50Hz	210 714000 46,3 150 510000 56,2 81,8 / 99,1 4,5 415V/3N-/50H.
Cooling Capacity Cooling Power Input Running current COP Power Supply Compressor Quantity	BTU /hr kW kW BTU /hr kW A	187000 11 42 143000 10.3 18.0 / 19.2 4.9 415V/3N-/50Hz 2	255000 16.7 56 190400 17.2 29.8 / 30.6 4.49 415V/3N-/50Hz 3	90 306000 17.5 70 238000 17.8 31.2 / 31.7 4.7 415V/3N-/50Hz 3	105 357000 22.5 88 300000 24.7 40.1 / 44.0 4.5 415V/3N-/50Hz	145 493000 30.2 106 360400 32.1 53.9 / 57.3 4.80 415V/3N-/50Hz	160 550000 34.2 120 410000 41.6 61.0 / 74.2 4.7 415V/3N-/50Hz	210 714000 46,3 150 510000 56,2 81,8 / 99,1 4,5 415V/3N-/50H,
Cooling Capacity Cooling Power Input Running current COP Power Supply Compressor Quantity Compressor	BTU /hr kW kW BTU /hr kW A	187000 11 42 143000 10.3 18.0 / 19.2 4.9 415V/3N-/50Hz 2 Scroll	255000 16.7 56 190400 17.2 29.8 / 30.6 4.49 415V/3N-/50Hz 3 Scroll	90 306000 17.5 70 238000 17.8 31.2 / 31.7 4.7 415V/3N-/50Hz 3 Scroll	105 357000 22.5 88 300000 24.7 40.1 / 44.0 4.5 415V/3N-/50Hz 4 Scroll	145 493000 30.2 106 360400 32.1 53.9 / 57.3 4.80 415V/3N-/50Hz 3 Scroll	160 550000 34.2 120 410000 41.6 61.0 / 74.2 4.7 415V/3N-/50Hz 3 Scroll	210 714000 46,3 150 510000 56,2 81,8 / 99,1 4,5 415V/3N-/50H, 4 Scroll
Cooling Capacity Cooling Power Input Running current COP Power Supply Compressor Quantity Compressor Fan Quantity	BTU /hr kW kW BTU /hr kW A	187000 11 42 143000 10.3 18.0 / 19.2 4.9 415V/3N-/50Hz 2 Scroll	255000 16.7 56 190400 17.2 29.8 / 30.6 4.49 415V/3N-/50Hz 3 Scroll 3	90 306000 17.5 70 238000 17.8 31.2 / 31.7 4.7 415V/3N-/50Hz 3 Scroll	105 357000 22.5 88 300000 24.7 401 / 44.0 4.5 415V/3N-/50Hz 4 Scroll 3	145 493000 30.2 106 360400 32.1 53.9 / 57.3 4.80 415V/3N-/50Hz 3 Scroll	160 550000 34.2 120 410000 41.6 61.0 / 74.2 4.7 415V/3N-/50Hz 3 Scroll	210 714000 46.3 150 510000 56.2 81.8 / 99.1 4.5 415V/3N-/50H 4 Scroll
Cooling Capacity Cooling Power Input Running current COP Power Supply Compressor Quantity Compressor Fan Quantity Fan Input Power	BTU /hr kW kW BTU /hr kW A	187000 11 42 143000 10.3 18.0 / 19.2 4.9 415V/3N-/50Hz 2 Scroll 2 200 X 2	255000 16.7 56 190400 17.2 29.8 / 30.6 4.49 415V/3N-/50Hz 3 Scroll 3 200 X 3	90 306000 17.5 70 238000 17.8 31.2 / 31.7 4.7 415V/3N-/50Hz 3 Scroll 3 200 X 3	105 357000 22.5 88 300000 24.7 40.1 / 44.0 4.5 415V/3N-/50Hz 4 Scroll 3	145 493000 30.2 106 360400 32.1 53.9 / 57.3 4.80 415V/3N-/50Hz 3 Scroll 3	160 550000 34.2 120 410000 41.6 61.0 / 74.2 4.7 415V/3N-/50Hz 3 Scroll 3 550 X 3	210 714000 46,3 150 510000 56,2 81,8 / 99,1 4,5 415V/3N-/50H 4 Scroll 4 550 X 4
Cooling Capacity Cooling Power Input Running current COP Power Supply Compressor Quantity Compressor Fan Quantity Fan Input Power Fan Rotate Speed	BTU /hr kW kW BTU /hr kW A V / PH / HZ	187000 11 42 143000 10.3 18.0 / 19.2 4.9 415V/3N-/50Hz 2 Scroll 2 200 X 2 830	255000 16.7 56 190400 17.2 29.8 / 30.6 4.49 415V/3N-/50Hz 3 Scroll 3 200 X 3 830	90 306000 17.5 70 238000 17.8 31.2 / 31.7 4.7 415V/3N-/50Hz 3 Scroll 3 200 X 3 830	105 357000 22.5 88 300000 24.7 40.1 / 44.0 4.5 415V/3N-/50Hz 4 Scroll 3 200 X 3	145 493000 30.2 106 360400 32.1 53.9 / 57.3 4.80 415V/3N-/50Hz 3 Scroll 3 550 X 3	160 550000 34.2 120 410000 41.6 61.0 / 74.2 4.7 415V/3N-/50Hz 3 Scroll 3 550 X 3 870	210 714000 46,3 150 510000 56,2 81,8 / 99,1 4,5 415V/3N-/50H 4 Scroll 4 550 X 4
Cooling Capacity Cooling Power Input Running current COP Power Supply Compressor Quantity Compressor Fan Quantity Fan Input Power Fan Rotate Speed Fan Airflow	BTU /hr kW kW BTU /hr kW A	187000 11 42 143000 10.3 18.0 / 19.2 4.9 415V/3N-/50Hz 2 Scroll 2 200 X 2 830 13920	255000 16.7 56 190400 17.2 29.8 / 30.6 4.49 415W/3N-/50Hz 3 Scroll 3 200 X 3 830 19500	90 306000 17.5 70 238000 17.8 31.2 / 31.7 4.7 415V/3N-/50Hz 3 Scroll 3 200 X 3 830 19500	105 357000 22.5 88 300000 24.7 401 / 44.0 4.5 415V/3N-/50Hz 4 Scroll 3 200 X 3 830	145 493000 30.2 106 360400 32.1 53.9 / 57.3 4.80 415V/3N-/50Hz 3 Scroll 3 550 X 3 870 22500	160 550000 34.2 120 410000 41.6 61.0 / 74.2 4.7 415V/3N-/50Hz 3 Scroll 3 550 X 3 870 22500	210 714000 46,3 150 510000 56,2 81,8 / 99,1 4,5 415V/3N-/50H 4 Scroll 4 550 X 4 870 30000
Cooling Capacity Cooling Power Input Running current COP Power Supply Compressor Quantity Compressor Fan Quantity Fan Input Power Fan Rotate Speed Fan Airflow Fan direction	BTU /hr kW kW BTU /hr kW A V / PH / HZ W rpm cfm	187000 11 42 143000 10.3 18.0 / 19.2 4.9 415V/3N-/50Hz 2 Scroll 2 200 X 2 830 13920 Vertical	255000 16.7 56 190400 17.2 29.8 / 30.6 4.49 415V/3N-/50Hz 3 Scroll 3 200 X 3 830 19500 Vertical	90 306000 17.5 70 238000 17.8 31.2 / 31.7 4.7 415V/3N-/50Hz 3 Scroll 3 200 X 3 830 19500 Vertical	105 357000 22.5 88 300000 24.7 40.1 / 44.0 4.5 415V/3N-/50Hz 4 Scroll 3 200 X 3 830 19500 Vertical	145 493000 30.2 106 360400 32.1 53.9 / 57.3 4.80 415V/3N-/50Hz 3 Scroll 3 550 X 3 870 22500 Vertical	160 550000 34.2 120 410000 41.6 61.0 / 74.2 4.7 415V/3N-/50Hz 3 Scroll 3 550 X 3 870 22500 Vertical	210 714000 46.3 150 510000 56.2 81.8 / 99.1 4.5 415V/3N-/50H 4 Scroll 4 550 X 4 870 30000 Vertical
Cooling Capacity Cooling Power Input Running current COP Power Supply Compressor Quantity Compressor Fan Quantity Fan Input Power Fan Rotate Speed Fan Airflow Fan direction	BTU /hr kW kW BTU /hr kW A V / PH / HZ	187000 11 42 143000 10.3 18.0 / 19.2 4.9 415V/3N-/50Hz 2 Scroll 2 200 X 2 830 13920 Vertical 61	255000 16.7 56 190400 17.2 29.8 / 30.6 4.49 415V/3N-/50Hz 3 Scroll 3 200 X 3 830 19500 Vertical 61	90 306000 17.5 70 238000 17.8 31.2 / 31.7 4.7 415V/3N-/50Hz 3 Scroll 3 200 X 3 830 19500 Vertical 62	105 357000 22.5 88 300000 24.7 40.1 / 44.0 4.5 415V/3N-/50Hz 4 Scroll 3 200 X 3 830 19500 Vertical 62	145 493000 30.2 106 360400 32.1 53.9 / 57.3 4.80 415V/3N-/50Hz 3 Scroll 3 550 X 3 870 22500 Vertical 64	160 550000 34.2 120 410000 41.6 61.0 / 74.2 4.7 415V/3N-/50Hz 3 Scroll 3 550 X 3 870 22500 Vertical 65	210 714000 46,3 150 510000 56,2 81,8 / 99,1 4,5 415V/3N-/50H 4 Scroll 4 550 X 4 870 30000 Vertical 65
Cooling Capacity Cooling Power Input Running current COP Power Supply Compressor Quantity Compressor Fan Quantity Fan Input Power Fan Rotate Speed Fan Airflow Fan direction Noise	BTU /hr kW kW BTU /hr kW A V / PH / HZ W rpm cfm dB (A) mm	187000 11 42 143000 10.3 18.0 / 19.2 4.9 415V/3N-/50Hz 2 Scroll 2 200 X 2 830 13920 Vertical 61 63	255000 16.7 56 190400 17.2 29.8 / 30.6 4.49 415V/3N-/50Hz 3 Scroll 3 200 X 3 830 19500 Vertical 61 63	90 306000 17.5 70 238000 17.8 31.2 / 31.7 4.7 415V/3N-/50Hz 3 Scroll 3 200 X 3 830 19500 Vertical 62 63	105 357000 22.5 88 300000 24.7 40.1 / 44.0 4.5 415V/3N-/50Hz 4 Scroll 3 200 X 3 830 19500 Vertical 62 110	145 493000 30.2 106 360400 32.1 53.9 / 57.3 4.80 415V/3N-/50Hz 3 Scroll 3 550 X 3 870 22500 Vertical 64 110	160 550000 34.2 120 410000 41.6 61.0 / 74.2 4.7 415V/3N-/50Hz 3 Scroll 3 550 X 3 870 22500 Vertical 65 110	210 714000 46,3 150 510000 56,2 81,8 / 99,1 4,5 415V/3N-/50H 4 Scroll 4 550 X 4 870 30000 Vertical 65 110
Cooling Capacity Cooling Power Input Running current COP Power Supply Compressor Quantity Compressor Fan Quantity Fan Input Power Fan Rotate Speed Fan Airflow Fan direction Noise Water connection	BTU /hr kW kW BTU /hr kW A V / PH / HZ W rpm cfm	187000 11 42 143000 10.3 18.0 / 19.2 4.9 415V/3N-/50Hz 2 Scroll 2 200 X 2 830 13920 Vertical 61 63 18	255000 16.7 56 190400 17.2 29.8 / 30.6 4.49 415V/3N-/50Hz 3 Scroll 3 200 X 3 830 19500 Vertical 61 63 25	90 306000 17.5 70 238000 17.8 31.2 / 31.7 4.7 415V/3N-/50Hz 3 Scroll 3 200 X 3 830 19500 Vertical 62 63 30	105 357000 22.5 88 300000 24.7 401 / 44.0 4.5 415V/3N-/50Hz 4 Scroll 3 200 X 3 830 19500 Vertical 62 110 32	145 493000 30.2 106 360400 32.1 53.9 / 57.3 4.80 415V/3N-/50Hz 3 Scroll 3 550 X 3 870 22500 Vertical 64 110 36	160 550000 34.2 120 410000 41.6 61.0 / 74.2 4.7 415V/3N-/50Hz 3 Scroll 3 550 X 3 870 22500 Vertical 65 110 40	210 714000 46.3 150 510000 56.2 81.8 / 99.1 4.5 415V/3N-/50H 4 Scroll 4 550 X 4 870 30000 Vertical 65 110 60
Cooling Capacity Cooling Power Input Running current COP Power Supply Compressor Quantity Compressor Fan Quantity Fan Input Power Fan Rotate Speed Fan Airflow Fan direction Noise Water connection Water Flow volume	BTU /hr kW kW BTU /hr kW A V / PH / HZ W rpm cfm dB (A) mm	187000 11 42 143000 10.3 18.0 / 19.2 4.9 415V/3N-/50Hz 2 Scroll 2 200 X 2 830 13920 Vertical 61 63	255000 16.7 56 190400 17.2 29.8 / 30.6 4.49 415V/3N-/50Hz 3 Scroll 3 200 X 3 830 19500 Vertical 61 63	90 306000 17.5 70 238000 17.8 31.2 / 31.7 4.7 415V/3N-/50Hz 3 Scroll 3 200 X 3 830 19500 Vertical 62 63	105 357000 22.5 88 300000 24.7 40.1 / 44.0 4.5 415V/3N-/50Hz 4 Scroll 3 200 X 3 830 19500 Vertical 62 110	145 493000 30.2 106 360400 32.1 53.9 / 57.3 4.80 415V/3N-/50Hz 3 Scroll 3 550 X 3 870 22500 Vertical 64 110	160 550000 34.2 120 410000 41.6 61.0 / 74.2 4.7 415V/3N-/50Hz 3 Scroll 3 550 X 3 870 22500 Vertical 65 110	210 714000 46,3 150 510000 56,2 81,8 / 99,1 4,5 415V/3N-/50H; 4 Scroll 4 550 X 4 870 30000 Vertical 65 110
Heating Power Input Cooling Capacity Cooling Power Input Running current COP Power Supply Compressor Fan Quantity Fan Input Power Fan Airflow Fan direction Noise Water connection Water Flow volume Water pressure drop (max) Unit net dimensions (L/W/H)	BTU /hr kW kW BTU /hr kW A V / PH / HZ W rpm cfm dB (A) mm m³/h	187000 11 42 143000 10.3 18.0 / 19.2 4.9 415V/3N-/50Hz 2 Scroll 2 200 X 2 830 13920 Vertical 61 63 18	255000 16.7 56 190400 17.2 29.8 / 30.6 4.49 415V/3N-/50Hz 3 Scroll 3 200 X 3 830 19500 Vertical 61 63 25	90 306000 17.5 70 238000 17.8 31.2 / 31.7 4.7 415V/3N-/50Hz 3 Scroll 3 200 X 3 830 19500 Vertical 62 63 30	105 357000 22.5 88 300000 24.7 401 / 44.0 4.5 415V/3N-/50Hz 4 Scroll 3 200 X 3 830 19500 Vertical 62 110 32	145 493000 30.2 106 360400 32.1 53.9 / 57.3 4.80 415V/3N-/50Hz 3 Scroll 3 550 X 3 870 22500 Vertical 64 110 36	160 550000 34.2 120 410000 41.6 61.0 / 74.2 4.7 415V/3N-/50Hz 3 Scroll 3 550 X 3 870 22500 Vertical 65 110 40	210 714000 46,3 150 510000 56,2 81,8 / 991 4,5 415V/3N-/50H, 4 Scroll 4 550 X 4 870 30000 Vertical 65 110 60

Data sheet is based on capacities: