FLUIDRA
COMMERCIAL POOL SOLUTIONS

ELECTRIC HEAT PUMPS FOR PUBLIC POOLS

ASTRALPOOL

FLUIDRA
COMMERCIAL POOL SOLUTIONS

PUBLIC POOLS

HIGHLY-EFFICIENT ELECTRIC HEAT PUMPS

AHP SERIES

Astralpool's range of electric heat pumps for use in public pools provide quieter and easier operation than you could believe.

The **AHP series** ensure constant and reliable pool water temperature for heating and cooling on every commercial application.

Suitable for use in all public pool environments including hotel/motel pools, splash parks, swim schools and large aquatic complexes.

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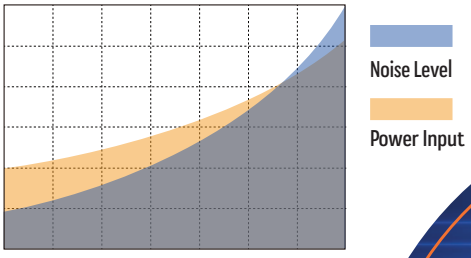
AHP SERIES

AHP-47 / AHP-58 / AHP-95 / AHP-120 / AHP-145 / AHP-190

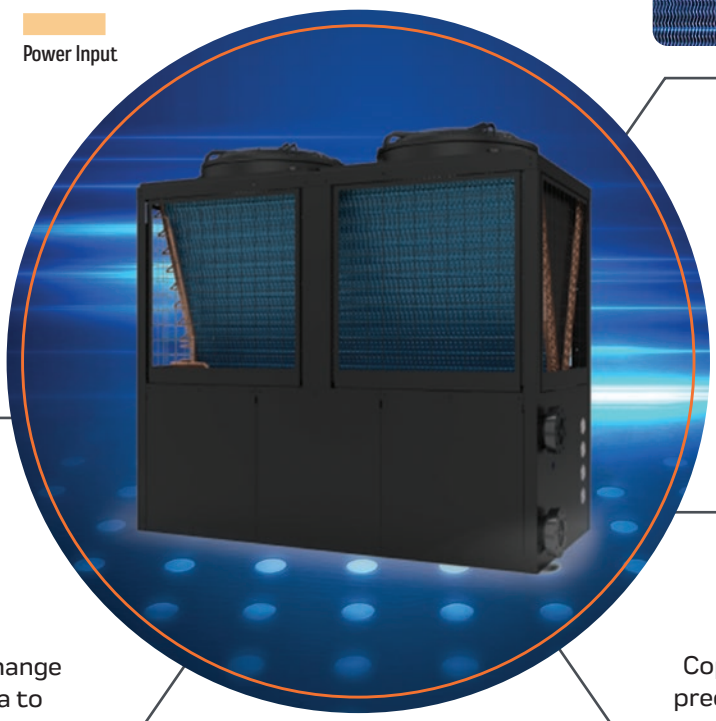
COMMERCIAL POOL HEAT PUMPS

Astralpool's AHP series heat pumps are designed to cope with the demands of the modern aquatic facility, regardless of how large or small it is. Commercial air source heat pumps provide heating or cooling to meet your exact requirements year-round. A high grade powder coated cabinet along with double epoxy coated evaporator coil minimises potential for rust and corrosion, extending the operating life of the unit.



Variable speed fan adjusts to reduce power and as a result noise achieving energy savings and quieter running.

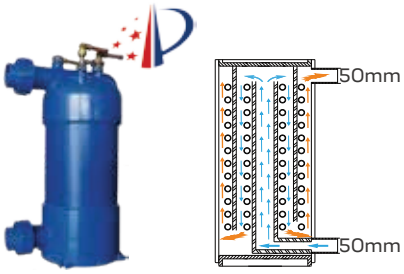
Double epoxy coated evaporator coil to provide high corrosion resistance



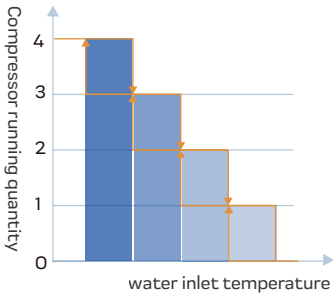
Electronic expansion valve to automatically adjust refrigerant flow rate maximising efficiency

Dual coil titanium heat exchange with enlarged surface area to provide increased efficiency

Copeland compressors with precise energy stage settings to achieve energy savings



Titanium tube heat exchanger



FLUIDRA
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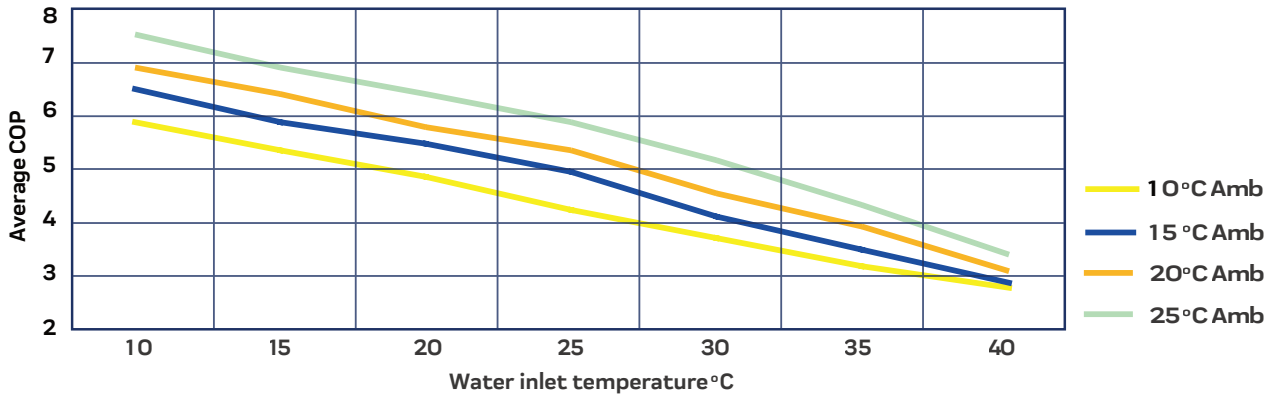
AHP SERIES
TECHNICAL SPECIFICATIONS

Fluidra Australia Code		78549	78550	78551	78552	78553	78554	78555
Model		**AHP38**	**AHP47**	**AHP58**	**AHP95**	**AHP120**	**AHP145**	**AHP190**
		Condition 1 @ 24 deg air, 26 deg water, 63% humidity						
Heating Power	kW	38.00	47.00	57.00	95.00	120.00	145.00	190.00
Consumed Power	kW	7.10	9.10	11.60	16.10	21.80	25.50	32.80
COP		5.40	5.10	4.90	5.90	5.50	5.69	5.79
Running Current	Amps	11.72	15.10	20.70	28.80	39.00	50.00	67.80
		Condition 2 @ 15 deg air, 26 deg water, 71% humidity						
Heating Power	kW	33.60	37.00	43.00	81.00	100.00	123.00	158.00
Consumed Power	kW	6.50	8.81	10.11	16.53	20.80	24.60	31.10
COP		5.20	4.20	4.25	4.90	4.81	5.00	5.08
Running Current	Amps	10.73	15.30	18.20	29.50	38.40	48.30	60.80
		Condition 3 @ 7 deg air, 26 deg water, 87% humidity						
Heating Power	kW	28.40	31.50	34.20	64.00	81.00	100.00	126.50
Consumed Power	kW	6.00	8.51	10.00	16.80	20.60	27.00	30.78
COP		4.80	3.70	3.42	3.81	3.93	3.70	4.10
Running Current	Amps	9.91	14.90	18.10	32.10	37.50	53.20	67.30
		Condition 4 @ 35 deg air, 30 deg water, 60% humidity						
Cooling Capacity Power	kW	18.30	24.04	29.25	37.25	40.70	53.60	95.80
Consumed Power	kW	7.80	8.89	11.40	17.75	19.44	26.14	37.88
EER		2.30	2.70	2.56	2.10	2.09	2.05	2.53
Running Current	Amps	12.88	16.72	20.26	35.32	33.43	51.71	75.34
Power Supply		415V / 3 phase						
Refrigerant		R410A						
Compressor Type		Scroll						
Compressor Qty		2	2	2	4	4	2	4
Max. operating current	A	13.8	19.1	23.7	41.3	46	55	88
Circuit breaker size (min)	A	32	40	40	80	80	80	125
Fan Qty		2	2	2	3	3	2	2
Noise @ 1M	dB (A)	61	61	61	61	62	71	67
Water connection	mm	50mm (2")	50mm (2")	50mm (2")	100mm (4")	100mm (4")	100mm (4")	100mm (4")
Minimum flow rate	m3/h	12	15	19.5	29	35	62	60
Unit Width	mm	1490	1490	1490	2170	2180	2175	2180
Unit Length	mm	735	735	735	1070	1080	1070	1070
Unit Height	mm	1130	1130	1130	1920	1930	2030	2060
Shipping weight	kg	270	300	300	680	695	710	940
Net weight	kg	250	252	260	635	650	665	910



FLUIDRA
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AHP INVERTER SERIES

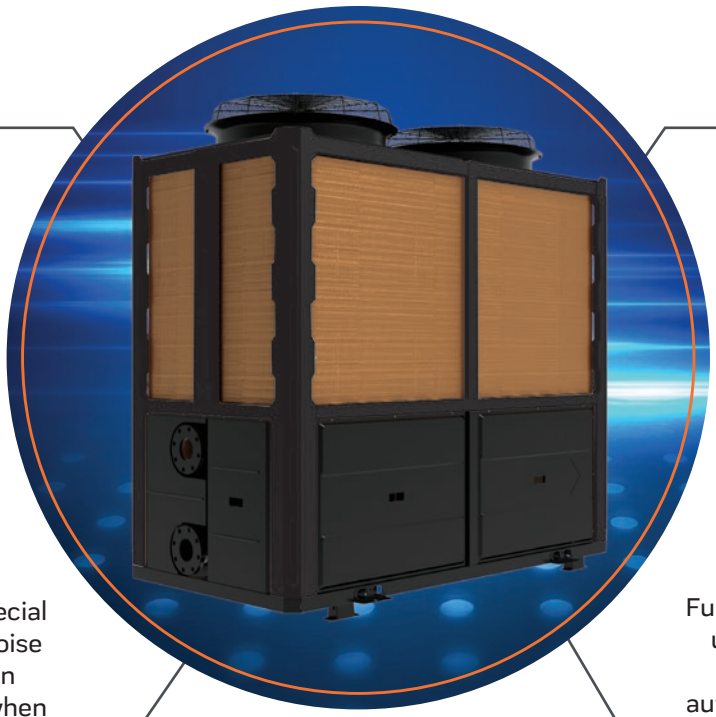
AHP 65i / AHP 130i / AHP 250i

COMMERCIAL INVERTER POOL HEAT PUMPS

Astralpool's AHP inverter series heat pumps have market leading, full inverter technology along with high-quality compressors providing COP's of up to 16.1
Soft start technology limits sudden fluctuations in power supply and the DC driven inverter fans with a special blade design reduces noise levels up to 20% over standard models.

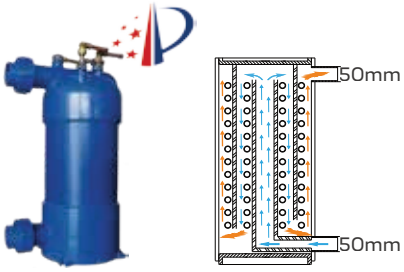
5 inch colour display for ease of use

Soft start technology limits sudden fluctuations in power, protecting circuits

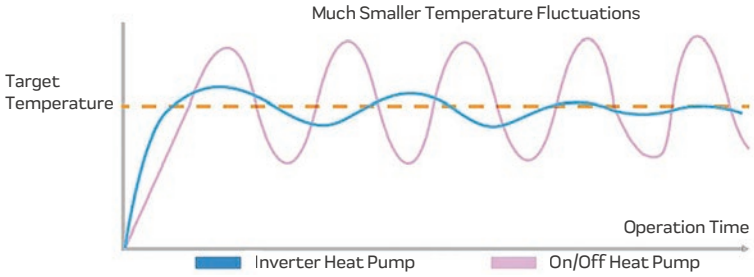


DC inverter fan with special blade design reduces noise levels by up to 20% on standard heat pumps when unit operating at lower speeds

Full DC inverter technology, utilising variable-speed compressors that will automatically adjust to the lowest output needed



Titanium tube heat exchanger



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AHP INVERTER SERIES TECHNICAL SPECIFICATIONS

Fluidra Australia Code		78556	78557	78558
Model		AHP 65i	AHP 130i	AHP 250i
		Condition 1 @ 27 deg air, 26 deg water, 80% humidity		
Boost Mode Capacity	kW	80	175	300
Heating Power	kW	12.2 ~ 65	28.2 ~ 130	61.3 ~ 250
Consumed Power	kW	0.76 ~ 10.65	1.76 ~ 20.97	3.81 ~ 40.85
COP		6.1 ~ 16.1	6.2 ~ 16.0	6.12 ~ 16.1
		Condition 2 @ 15 deg air, 26 deg water, 70% humidity		
Boost Mode Capacity	kW	60	135	230
Heating Power	kW	9.6 ~ 50.1	22.2 ~ 100.0	50.0 ~190.0
Consumed Power	kW	1.96 ~ 5.96	2.61 ~ 20.41	5.81 ~ 38.0
COP		4.91 ~ 8.4	4.9 ~ 8.5	5.0 ~ 8.6
		Condition 3 @ 7 deg air, 26 deg water, 80% humidity		
Boost Mode Capacity	kW	40	80	150
Cooling Capacity Power	kW	15.4 ~ 35.0	32.6 ~ 70.0	60.15 ~ 132.6
Consumed Power	kW	3.17 ~ 9.94	6.65 ~ 19.44	13.08 ~ 39.00
COP		3.52 ~ 4.85	3.60 ~ 4.90	3.40 ~ 4.60
		Condition 4 @ 35 deg air, 30 deg water, 70% humidity		
Boost Mode Capacity	kW	42	96	170
Cooling Capacity Power	kW	15.0 ~ 30.2	44.0 ~ 54.8	58.3 ~ 110.0
Consumed Power	kW	2.02 ~ 6.28	10.73 ~ 17.70	14.05 ~ 35.48
EER		3.00 ~ 4.05	3.08 ~ 4.10	3.10 ~ 4.15
Power Supply		415V / 3 phase		
Refrigerant		R410A		
Compressor Type		DC Inverter		
Compressor Qty		1	2	3
Max. operating current per phase	A	21	37.7	90
Max. operating current (Boost mode)	A	26.3	46.1	105.5
Circuit breaker size (min)	A	40	80	160
Fan Qty		2	2	2
Noise @ 1M	dB (A)	41-60	42-63	59-70
Water connection	mm	50mm (2")	100mm (4")	100mm (4")
Minimum flow rate	m3/h	25	53	61
Unit Width	mm	830	1160	1330
Unit Length	mm	1750	2260	2540
Unit Height	mm	1750	2125	2430
Shipping weight	kg	400	715	1080
Net weight	kg	360	660	1015

A Fluidra Brand

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