

ASTRALPOOL HEAT 3



AIR/WATER HEAT PUMPS, FOR OUTDOOR INSTALLATION



TECHNICAL FEATURES

MODELS		APH3-14	APH3-17	APH3-21	APH3-26	
CODES		68837	68838	68839	68840	
GENERAL DATA	Indicative pool volume ⁽¹⁾	m ³	≤ 66	≤ 86	≤ 122	≤ 135
	Refrigerant fluid quantity	Kg	1.4	1.8	1.8	2.6
	Min-Max water flow	m ³ /h	-	-	-	-
	Average water flow	m ³ /h	4	5	6	8
	Water pressure loss	Kpa(Bar)	14	15	18	20
	Net weight	kg	70	75	92	111
	Gross weight	kg	88	94	115	137
	Net dimension (WxDxH)	mm	820*695*830		950*900*1025	
	Packing dimension (WxDxH)	mm	920*755*980		1050*960*1175	
INSTALLATION	Air blowing		Vertical			
	Outdoor / Indoor installation		Outdoor			
	Hydraulic connection	mm	Ø 50			
	Recommended power cable section ⁽²⁾		3x2,5		3x4	
ELECTRICAL DATA	Maximum operating current	A	11,5	14	17	22,5
	Starting current	A	- (Inverter, Soft Start)			
	Rated current	A	8.1	9.8	12	16
	Electric Power Supply	V	220~240V /50Hz or 60Hz/1PH			
EQUIPMENT	Fan		DC			
	Number of Fan	Unit	1			
	Anti-icing resistance		√ (on condenser)			

(1) Estimated average values for a private pool with isothermal cover, from 15 May to 15 September. For an accurate sizing, please consult our configurator Astralpool

(2) For a maximum length of 20 meters

√ Standard feature

HEATING PERFORMANCE^{(3) (4)}

Performance at Air 28°C, Water 28°C, Humidity 80%	Heating capacity	kW	3 - 14	3.6 - 17	4.6 - 21	6 - 26
	Power consumption	kW	0.2 - 2.1	0.3 - 2.5	0.4 - 3.1	0.5 - 3.9
	C.O.P.		13 - 6.7			
Performance at Air 15°C, Water 26°C, Humidity 70%	Heating capacity	kW	2.1 - 9.6	2.5 - 11.5	3.2 - 14.3	4.2 - 18.5
	Power consumption	kW	0.2 - 1.9	0.3 - 2.3	0.4 - 2.9	0.5 - 3.6
	C.O.P.		8.5 - 5.1			
Performance at Air 7°C, Water 26°C, Humidity 70%	Heating capacity	kW	1.5 - 7.5	1.7 - 9.1	2.3 - 11.2	3.2 - 14.3
	Power consumption	kW	0.2 - 1.9	0.3 - 2.3	0.4 - 2.9	0.5 - 3.6
	C.O.P.		6.6 - 4			
Performance at Air 0°C, Water 26°C, Humidity 78%	Heating capacity	kW	1.3 - 6.5	1.5 - 7.4	2 - 9.8	2.5 - 12.5
	Power consumption	kW	0.2 - 1.9	0.3 - 2.3	0.4 - 2.9	0.5 - 3.6
	C.O.P.		4.6 - 3			

(3) Power, expressed in kW, indicates the quantity of heat transferred to the water. It varies depending on 3 conditions: temperature of the outside air, humidity of the outside air and temperature of the water in the pool.

To compare the performances of different heat pumps, it is a must to compare Power and COP under the same conditions.

COOLING PERFORMANCE⁽⁴⁾

Performance at Air 40°C, Water 28°C Humidity N/C	Cooling capacity	kW	1.6 - 5.4	2.2 - 7.2	3.6 - 9.2	3.9 - 11.2
	Power consumption	kW	0.3 - 2	0.4 - 2.6	0.6 - 3.3	0.7 - 4.2
	EER ⁽⁵⁾		5.4 - 2.7	5.6 - 2.8		5.6 - 2.7
Performance at Air 30°C, Water 26°C Humidity N/C	Cooling capacity	kW	1.8 - 6.6	2.5 - 9	4.1 - 11.2	4.4 - 13.2
	Power consumption	kW	0.3 - 1.7	0.4 - 2.2	0.6 - 2.7	0.6 - 3.3
	EER		6.9 - 4	7 - 4.1		7 - 4

ACOUSTIC PERFORMANCE⁽⁴⁾

Acoustic power (Lw) Heating mode	dB(A)	-	-	-	-
Acoustic pressure (Lp) at 1m Heating mode	dB(A)	40 - 54	41 - 56		42 - 60
Acoustic pressure (Lp) at 10m Heating mode	dB(A)	-	-	-	-

(4) Output value with Min-Max compressor speed

(5) Energy Efficiency Ratio

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Outdoor Air working temperature	
Maximum T°C / Minimum T°C	
Heating Mode	Cooling Mode
43 °C / -20 °C	43 °C / 15 °C

Target Pool Water temperature	
Maximum T°C / Minimum T°C	
Heating Mode	Cooling Mode
41 °C / 15 °C	35 °C / 6 °C

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