

ASTRALPOOL HEAT 3



AIR/WATER HEAT PUMPS, FOR OUTDOOR INSTALLATION

ASTRALPOOL 



AstralPool Toolbox
app for IOS and Android



Fluidra Connect
compatible

KEY BENEFITS

- **Full inverter technology:** silent and energy saving
- **Vertical air blowing** for increased comfort
- **-20°C lowest outdoor air** working temperature



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TECHNICAL TIPS

1. FULL INVERTER TECHNOLOGY

Inverter technology enables a heat pump to change its power mode depending on the temperature of the pool water and the weather conditions.

It therefore runs to achieve the best energy efficiency at the lowest noise level.

3 operating modes:

Silent: Ideal to maintain the temperature quietly

- Heat Pump runs at low power setting
- Compressor operates on low speed ranges to minimize energy consumption
- Lowest noise and Highest COP

Smart: Normal use

- Compressor operates smartly from low to high speed ranges
- Reduced noise and energy consumption

Powerful: Ideal to begin the season or to operate in cold conditions

- Heat Pump runs at high power setting
- Compressor operates on high speed ranges to heat the pool faster
- Maximum heating power

2. VERTICAL BLOWING

Vertical air blowing is typically suitable for **small spaces** as a reduced free area is required around the unit.

3. AUTOMATIC HEAT / COOL MODE

The heat pump will switch automatically from heat to cool mode to stabilize the temperature at the desired target.

INCLUDED ACCESSORIES

- 1 x Winter Cover
- 4 x Anti-vibration feet
- 3 x Water nozzles
- 1 x 4-way connection
- 4 x Drain hoses
- 1 x 10m Signal wire (to connect the screen remotely)
- 1 x screen waterproof box
- 1 x 10m Modbus signal wire (to connect the Heat Pump to the Connect Box)
- 2 x PVC fittings ½ unions 50

OPTIONAL ACCESSORIES

- By-pass kit

COMPLEMENTARY INFORMATION

- Check out our Website: <http://www.fluidra.com> or <https://www.astralpool.com>
- Check out our Astralpool configurator to select the best heat pumps according to your need: <https://www.astralpool.com>

We reserve the right to change all or part of the features of the articles or contents of this document, without prior notice.

www.astralpool.com

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TECHNICAL CHARACTERISTICS - ASTRALPOOL HEAT 3

	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		R32			
	Refrigerant fluid quantity	Kg	1.4	1.8	1.8	2.6
	Defrosting mode		Reverse cycle			
	Cooling mode		√ (Automatic)			
	Heating priority (filtration control)		√			
	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			
	Power cable length	m	X			
	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	Casing		ABS			
	Exchanger		Titanium			
	Expansion valve		Electronic			
	Compressor		Inverter Rotary			
	Fan		DC			
	Number of Fan	Unit	1			
	Anti-icing resistance		√ (on condenser)			
	Remote display		√ (Detachable display)			
	User interface		LED Touchscreen			
	NN comptability		√			
WIFI		X				

(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

X Non available feature

- No data associated to this 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.

(4) Value with Min-Max compressor speed

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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) Value with Min-Max compressor speed

(5) Energy Efficiency Ratio

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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