

CAHP

Air to Water Heat Pump

Storage Capacity - 300 & 455 litres



CAHP

The CAHP heat pump water heater is an integrated system that utilises the heat pump technology to provide efficient way to heat water with electricity. CAHP pulls heat from surrounding air and deposits the heat into the tank. The end result is hot water with cooler and dehumidified air as a welcome by-product.

FEATURES:

ENERGY SAVING & ENVIRONMENT FRIENDLY

- Absorbs Environment heat and transfers it to the water, at the same time cooling and dehumidifying the ambient air.
- "Environmental-friendly" R-134a refrigerant.
- Multiple operating modes maximise efficiency & meet increasing hot water needs.
- High capacity storage tank enables heat pump to operate more frequently than the heating elements. This provides higher efficiency & cover operating costs, saving money for the home owner.



ALL ROUND SAFETY

- Triple protection - Thermostat, High temperature limit and T&P relief valve.
- Refrigerant and water are completely separated, condenser uses rectangular steel tubes.
- Water can be heated upto 65°C on heat pump mode, which prevents breeding of Legionella bacteria.
- Compressor overheating protection
- High and low voltage protection
- Refrigerant leakage protection



SMART & CONVENIENT

- Large LCD touch pad display
- Intuitive icons clearly indicate the current operating mode
- Three line display communicates current status and displays error messages in plain English when applicable.
- Safety lock
- Individual back lit buttons for mode selection



LCD remote

COMMERCIAL-GRADE GLASS TANK LINING

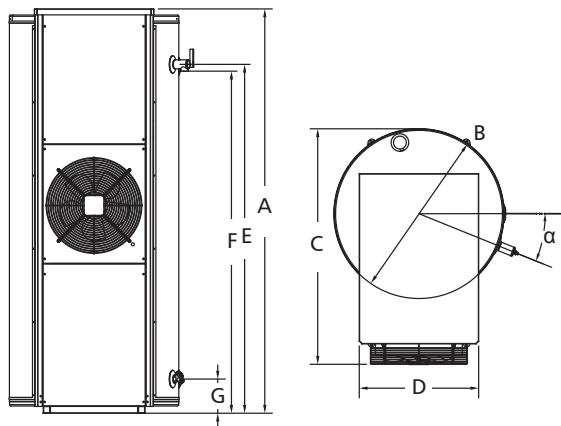
A. O. Smith's Blue Diamond® glass coating is a patented commercial-grade formula that provides superior tank protection and corrosion resistance compared to the industry standard glass lining. Blue Diamond glass coating blend is formulated in the same lab that creates the protection for our industry- leading commercial product line. Through our long history, we've learned that one size rarely fits all. That's why we customize our signature formula to best meet the needs of every water heater we produce, ensuring long life no matter which A. O. Smith model you choose.



TECHNICAL SPECIFICATIONS - CAHP 1.5DI - 80/120

Model		CAHP1-5DI-80-6	CAHP1-5D-120-6	CAHP1-5D-120-12
Model Type	/	Outdoor integrated heat pump water heater		
HP Rated Power	W	875		
HP Rated heating capacity	W	3680		
COP	W/W	4.20		
Electrical Heating Capacity	W	6000	6000	12000
Maximum Operation Current	400V / 3N / 50Hz	A	/	37.5
	230V / 1N / 50Hz	A	38.7	71.9
Refrigerant	/	R134a		
Refrigerant charge quantity	g	940		
Tank capacity	L	300	455	455
Net Weight	Kg	161	194	194
Operation Weight	Kg	461	649	649
Water Temp in efficiency mode	°C	65		
Operation Temperature Range	°C	37~75		
Ambient Temperature for HP	°C	-7~43		
Ambient Temperature for Unit	°C	-15~50		
Unit Operation Noise	dB (A)	54		
Air Outlet Noise	dB (A)	58		
Demision (LxWxH) mm	mm	910x610x1700	1012x713x1700	1012x713x1700
Anode	/	Aluminum Rod		
Control Mode	/	Led wire Display (Standard 10m, Optional Maxium 30 m)		
Operation Mode	/	Efficiency, High Demand, Standard		
Other Control Functions	/	Timer, Fault Alarming, Water pump controlling, AES HP		
Power Supply Specifications	/	230V~50Hz	230V~50Hz	400V 3N~50Hz
Connection Size ~ Inlet / Outlet / T&P Valve	/	NPT 3/4 (Female Thread)		

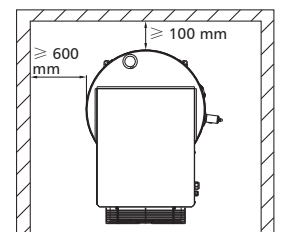
EXTERNAL DIMENSIONS



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Model	Total height A (mm)	Tank diameter B (mm)	Maximum depth C (mm)	Width from the gate D (mm)	safety valve Interface height E (mm)	Water inlet height G (mm)
CAHP-80	1700	610	910	503	1440	145
CAHP-120	1700	713	1012	503	1467	144

INSTALLATION DIAGRAM



- During installation, the minimum distance between the air outlet and the barrier should be 800mm
- The heat pump electric water heater should be placed on a refractory base that is over 100mm of height
- If installed in a confined space, the indoor space should not be less than 26m³