

# Applications

Residential Apartments



Hospitals



Hotels



Educational Institutions



Workspaces



Resorts/Villas



India's widest range of Heat Pumps.



**AOSmith**<sup>®</sup>  
Innovation has a name.

**Our Heat Pumps Think!**  
Discover the Intelligent Adaptive Technology.



**AES**  
INTELLIGENT  
ADAPTIVE  
TECHNOLOGY

**CAHP - 3HP**

**Air to Water Heat Pump**

Storage Capacity - 450 litres

World's No.1  
Water Heater  
manufacturer

Registered Office

**A. O. Smith India Water Products Private Limited**

(formerly known as A. O. Smith India Water Heating Private Limited)

Plot No. 300, Phase-2, KIADB Industrial Area, Harohalli, Kanakapura Taluk, Ramanagara District - 562 112, Karnataka, India.

Customer Care No. 1800-103-2468/1860-500-2468 ■ Website: [www.aosmithindia.com](http://www.aosmithindia.com)

CIN: U31909KA2006PTC040282



## CAHP-3HP

Presenting the CAHP 3HP Model - Smartly designed to give a premium hot water bathing experience with the new age heat pump technology. It is designed to be suitable for Residential Apartments, Resorts/Villas and Hospitals. With the pathbreaking technology, that pulls heat from the environment, it is no surprise that our heat pumps reduce the water heating costs significantly, reducing greenhouse emissions, thus contributing to a greener world.

### Smarter way to heat water

- ▶ **AES Technology** – Intelligent Adaptive Energy Saving technology analyses the water usage patterns to automatically heat up the water and optimize energy consumption
- ▶ **Wired Digital Control** – Smarter way to control heating
- ▶ **Smart Modes** – Enables you to customize as per your need. Three modes - Efficiency, Hybrid and Electric



### Sensitive to the environment

- ▶ **Heating that saves energy** – Reduced energy consumption Up to 70% by extracting heat from the atmosphere to heat up the water
- ▶ **R134a Green Refrigerant** – Controls the greenhouse gas emission, thus contributing to a greener world

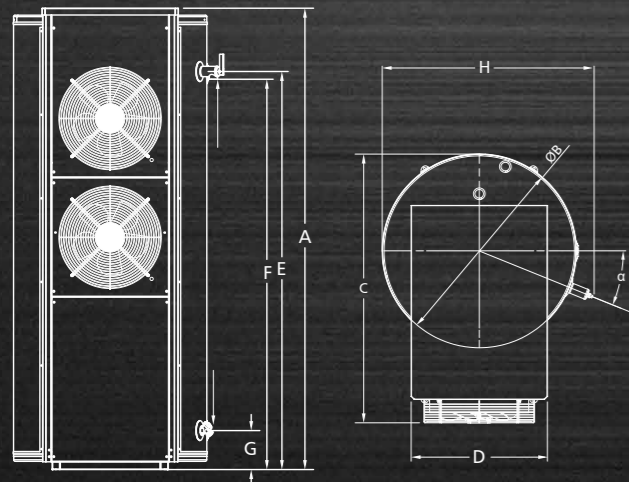


### Absolutely safe for you

- ▶ **7 Safety Protection**
  - High and Low voltage protection
  - High temperature limit protection switch (Eco switch)
  - High water temperature protection (Temperature sensor)
  - Refrigerant leakage protection
  - Compressor overheating discharge protection
  - Abnormal operation Protection (Relay and Electronic expansion valve)
  - Temperature and pressure relief valve



### Dimensions



### X-Ray view



### Digital Remote



## CAHP-3HP

### Technical Specification

MODEL		CAHP3.0-120-12	
Model Type	/	Outdoor integrated heat pump water heater	
HP Rated Power	kW	2.22	
HP Rated heating capacity	kW	8	
COP	W/W	3.6	
Electrical Heating Capacity	W	12000	
Maximum Operation Current	400V / 3N / 50Hz	A	31.5
	230V / 1N / 50Hz	A	78.5
Hot Water Delivering Rate ( $\Delta T=30^{\circ}C$ )	Efficiency	A	230
	High Demand	A	573
Refrigerant	/	R134a	
Refrigerant charge quantity	g	1850	
Tank capacity	L	455	
Net Weight	Kg	229	
Operation Weight	Kg	684	
Water Temp in efficiency mode	$^{\circ}C$	65	
Operation Temperature Range	$^{\circ}C$	35~75	
Ambient Temperature for HP	$^{\circ}C$	7~43	
Unit Operation Noise	dB (A)	59	
Air Outlet Noise	dB (A)	62	
Dimensions (LxWxH) mm	mm	995 x 785 x 1700	
Anode	/	Aluminum Rod	
Control Mode	/	Led wire Display (Standard 10m, Optional Maxium 20 m)	
Operation Mode	/	Efficiency, High Demand, Standard	
Other Control Functions	/	Timer, Fault Alarming, Anti freezing, Water pump controlling	
Power Supply Specifications	/	230V~50Hz and 400V/3N/50Hz	
Connection Size ~ Inlet / Outlet / T&P valve / Drain valve	/	3/4 Inch (Female Thread)	

### EXTERNAL DIMENSIONS

Total height A (mm)	/	1770
Tank diameter B (mm)	/	711
Maximum depth C (mm)	/	1002
Service panel width D (mm)	/	600
Relief valve height E (mm)	/	1476
Water outlet height F (mm)	/	1468
Water Inlet height G (mm)	/	153
Maximum width H (mm)	/	770