

# Applications



Hospitality



Hospitals



Industrial/Commercial



Educational Institutions



Workspaces



Resorts

## Service Excellence

A. O. Smith comes with the assurance of the highest quality of service. We have a vast network to cater to varying industries, ranging from Hotels, Hospitals, Manufacturing units, Airports and High-end villas across the country.

### Our 4-step Service Support Approach



**1/** **Sizing and Selection,**  
we consult our clients and  
provide technical support



**2/** **Training Support for**  
**Channel Partners** by  
A. O. Smith experts



**3/** **Regional Service**  
**Team** are dedicated  
for each zone



**4/** **Central Service Team**  
**HO** supports with training  
& technical queries

*All service cases are monitored by the regional sales team as well, thus ensuring the most cogent and beneficial after-sales support resulting in highest level of clientele satisfaction.*

## Introducing

### Commercial Hot Water Storage Tanks

ST 1000: 1000L Capacity  
ST 2000: 2000L Capacity



## High Efficiency Heat Pumps

Greener World. Better Tomorrow.



**CAHP-HC 42 & 84**

**Air to Water Heat Pump**

## Registered Office

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

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

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

CIN: U31909KA2006PTC040282



CAHP-HC 42/84

Presenting CAHP-HC 42/84 series - Smartly designed high capacity units to give premium hot water bathing experience with the new age heat pump technology. It is designed to be suitable for Hotels, Resorts, Hospitals, Educational Institutions and commercial buildings. With the pathbreaking technology, that extracts 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.

A. O. Smith Advantage

Smarter way to heat water

Our Heat Pumps come with a smart controller and smart modes to customise your heating needs.

- ▶ **Central Controller** – Smarter way to control heating
- ▶ **Smart Modes** – Enables you to customize as per your need



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
- ▶ **COP – High Coefficient of performance is up to 4.4 enabling efficient heating**
- ▶ **R410A Green Refrigerant** – Controls the greenhouse gas emission, thus contributing to a greener world

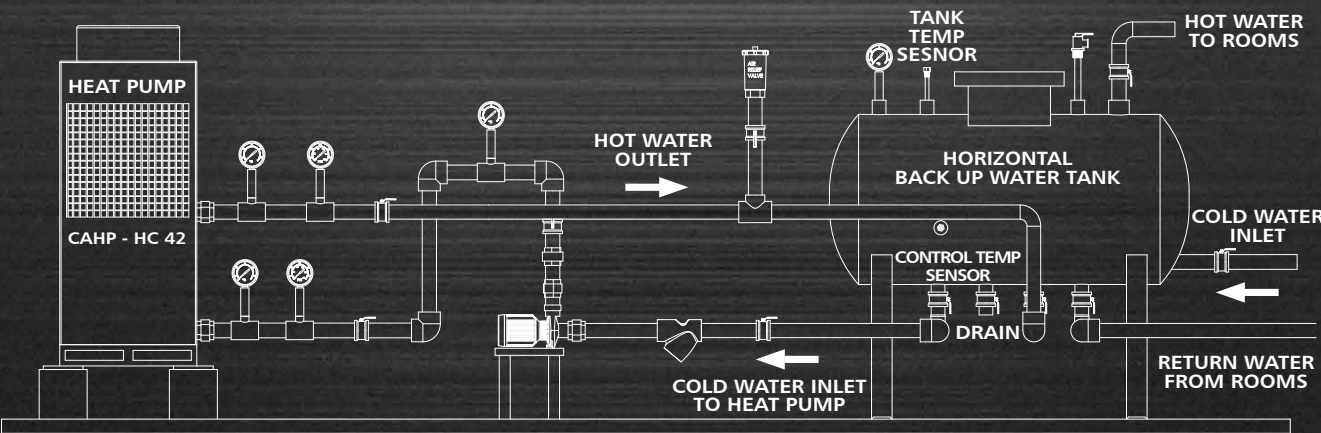


Absolutely safe for you

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



Schematic Drawing



CAHP-HC 42/84

Technical Specification

MODEL	CAHP-HC-42	CAHP-HC-84
Power supply	380V 3N ~50Hz	
Voltage range	380V± 10%	
Nominal heating capacity (kW)	42	84
Rated input power (kW)	9.56	19.12
Rated current (A)	24.5	49
Coefficient of performance COP (W/W)	4.39	4.39
Max. input power (kW)	15	30
Max. operating current (A)	30	60
Operation Noise (dB(A)) at 1 meter from the unit	65	68
Temperature control range (°C)	20~55	
Waterproof level	IPX5	
Protection category	Type I	
Control method	LCD display, wire control	
Max. Operation Pressure - High side (MPa)	4.4	
Max. working pressure suction / discharge (MPa)	3.1 / 4.4	
Max. water pressure (MPa)	1.1	
Inlet pipe diameter (external thread)	DN40 (R1 1/2)	DN50 (R2)
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Water side pressure loss (kPa)	100	
Refrigerant / Charge	R410A / 6.8kg	R410A / 13.6kg
Product dimensions (mm)	1020 x 846 x 1840	2060 x 846 x 1850
Net weight (kg)	313	603
Packaging weight (kg)	326	648

Note:

1. The nominal hot water volume of the heat pump is tested under the nominal operating conditions of the ambient dry/wet bulb temperature of 20°C/15°C, the initial water temperature of the water tank being 15°C and the final water temperature is 55°C.
2. Test water-side pressure loss of CAHP-HC-42 when water flow is 7.2m3/h and test water-side pressure loss of CAHP-HC-84 when water flow is 14.4m3/h.

Dimensions

