



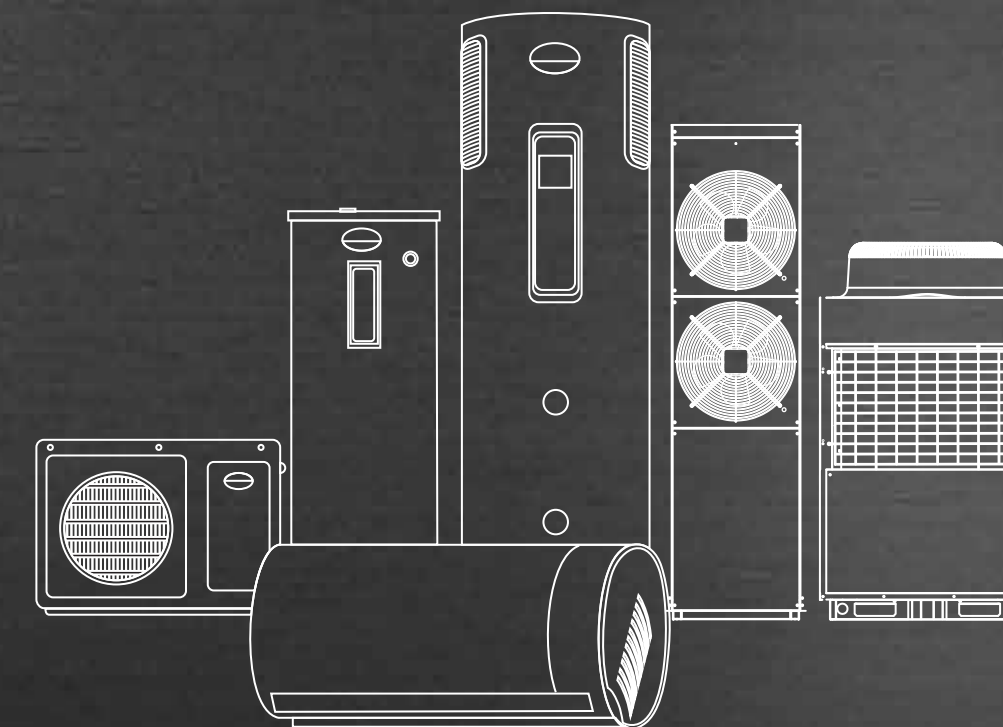
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Our Heat Pumps Think!
Discover the Intelligent Adaptive Technology.



India's widest range of Heat Pumps.

World's No.1
Water Heater
manufacturer



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A Legacy of Innovating the Impossible

Our humble beginnings root back to 1874 with a small machine workshop and today, we are the leaders in manufacturing residential and commercial water heating products. Headquartered in Milwaukee, Wisconsin, today our 11,400+ employee team is active in the USA, Canada, Mexico, China, India, the UK, the Netherlands, and Turkey with our sales and distribution networks active in 60+ countries. Over the years, we've patented the glass-lined water heater and our line of products features are the best-known brands in North America, China, and India.

We have a team of experts, who have made us one of the leaders in the global water technology sector, with a focus on new product development, global expansion, strategic acquisitions and partnerships. No wonder, our brand tagline says 'Innovation has a name.'

In India, our journey began in 2008 and since then we've been at the forefront of innovations. We established an impressive manufacturing facility in June 2010 at Harohalli, Bengaluru and from that time there has been no looking back.



1874
Started operations



1889-1906
Foray into the bicycle industry and over the years became North America's largest automobile frame manufacturer



1936-1954
Patented the glass line technology and introduced the first glass-lined commercial water heater



1995
Joint venture in China



2008
Started operations in India



2010
Factory set up in Harohalli, Bengaluru 2010 - Water Heater Manufacturing begins



2015
Entry in Water Purification-Pioneers in introducing the Hot Water feature



2019
Launched a new range of residential Water Heaters in India



2020
Launched industry-defining products in Water Heaters and Water Purifier series in India

How do heat pump water heaters work?

The technology inside the heat pump is similar to any domestic refrigerator, which uses a vapour compression cycle. The main components in the heat pump are the compressor, the expansion valve and two heat exchangers (an evaporator and a condenser).

The mechanism is such that heat pumps consume far lesser electricity compared to any other type of water heater.

Working of the Heat Pump

- Step-1** / Refrigerant in the evaporator is colder than the heat source. This causes the heat to move from the heat source (in this case the outside air) to the refrigerant, which then evaporates.
- Step-2** / This vapour moves to the compressor and reaches a higher temperature and pressure.
- Step-3** / The hot vapour now enters the condenser and gives off heat as it condenses.
- Step-4** / The refrigerant then moves to the expansion valve, reduces the temperature and pressure, and returns to the evaporator.

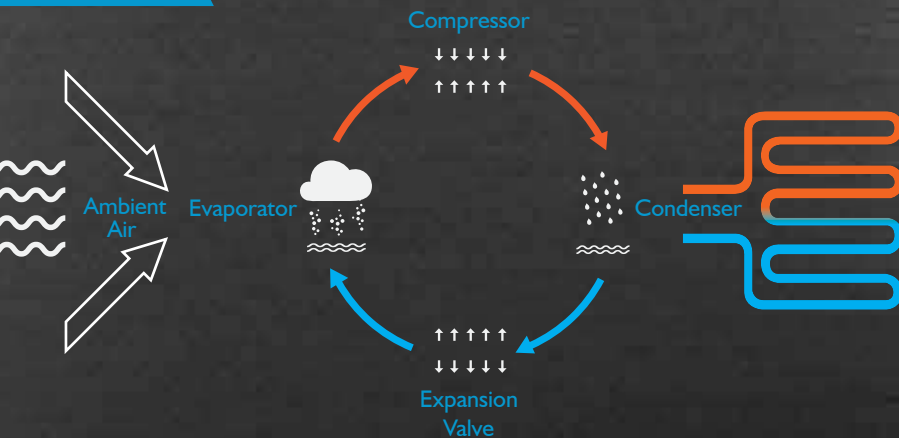
Benefits

- Saves up to 75% on heating costs
- Quick payback & ROI
- Hot water assurance round the year
- Longest product life
- Reduced carbon emissions
- Silent operations
- Negligible maintenance costs

Common Applications

- Hotels
- Resorts
- Serviced Apartments
- Hospitals
- Hostels (School & College)
- Restaurants & Kitchens
- Manufacturing Facilities

Heat Pump



A. O. Smith Heat Pump Benefits



AES

The Intelligent Adaptive Energy Saving technology analyzes the water usage pattern to automatically heat up the water and optimize energy consumption



Blue Diamond Glass Coating

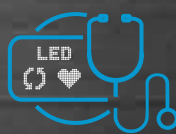
Corresponds to longer life to your tank by its corrosion resistance and reduced scaling accumulation technology



Absolutely Safe The Power of 7

Safety features to ensure the protection of the Heat Pump under all conditions:

1. Compressor overheating discharge protection
2. Abnormal operation protection (Relay and electronic expansion valve)
3. High & low voltage protection
4. Refrigerant leakage protection
5. High water temperature protection (Temperature sensor)
6. High-temperature limit protection switch (ECO switch)
7. Temperature & pressure relief valve



LED Display with Self Diagnosis

Real-time display of temperature control, timers and error code for a trouble-free service



Multiple Heating Mode

User can choose between Efficiency, Hybrid Turbo, Max and Instant Heating Mode



High Performance

Can achieve up to 65°C in heat pump mode

HPW Series

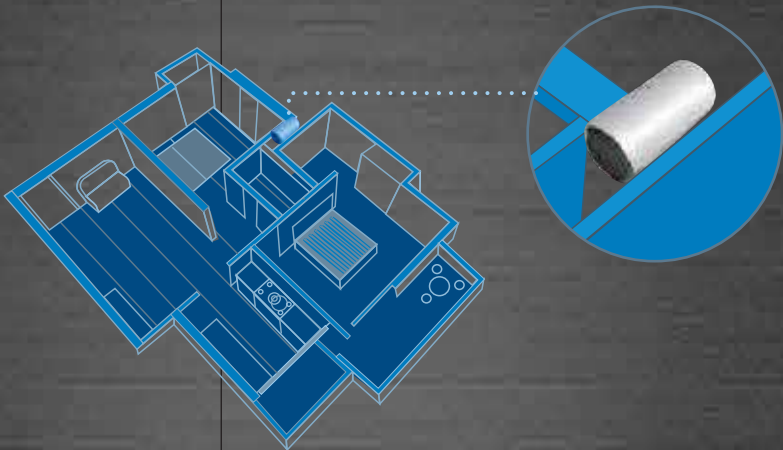
Residential Heat Pump



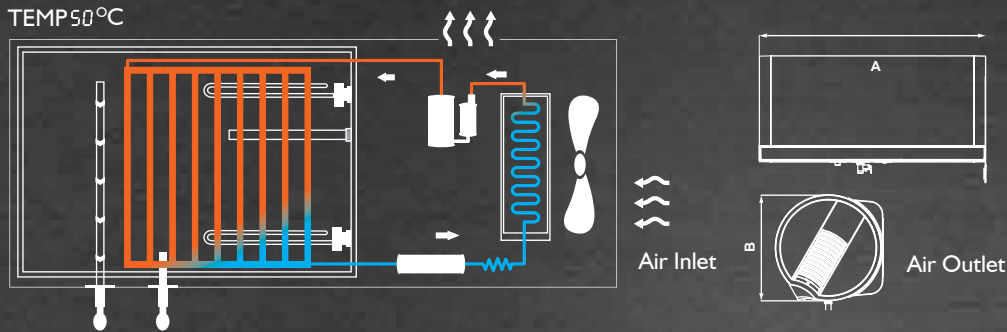
Features

- Heat pump water temperature 55°C,
- Maximum water temperature 75°C
- Input 200w, COP 2.6
- Patented AES energy-saving system
- R134a Green refrigerant
- Timer setting
- Remote control
- Two elements back up (2kW & 3kW) for quick recovery
- Wall-mounted

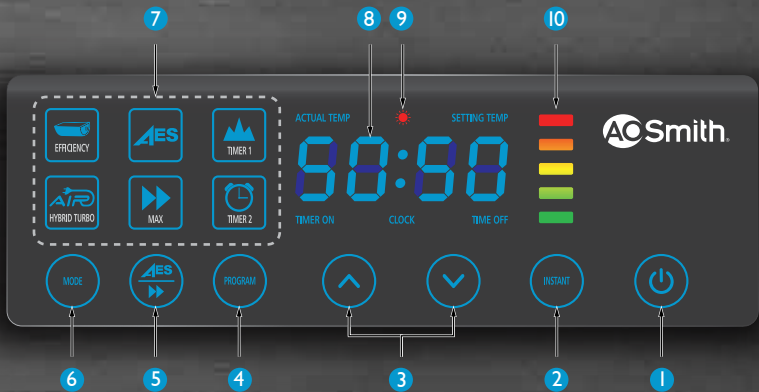
Installation Blueprint



Line Diagram



Wireless Remote



Convenience to access your water heater with Touch Control and Remote Control.

1. Power ON/OFF Button

Switches On/Off the water heater and displays the temperature in few seconds

2. Instant Heating Button

Heats instantly to reach a preset temperature

3. Increase/Decrease Button

Regulates the preset temperature

4. Program Button

Sets up the timer clock and the heating temperature

5. AES/MAX Button

Adapts heating cycle automatically resulting in optimal water usage and energy saving. Max function ensures higher hot water output

6. Mode Indicator

Interchanges different heating modes

7. Indicators

Indicates the mode in which the water heater is working

8. Digital Indicators

Displays the temperature, clock and timer settings

9. Heating Indicator

Glow to indicate the functioning of the water heater

10. Display of Hot Water

Five lighting blocks display the hot water distribution at different levels in the tank

Technical Specification

Model	HPW-60A2	HPW-80A2
Rated volume [L]	60	80
Rated voltage [V] / Rated frequency [Hz]	220 / 50	220 / 50
Rated input power [W] / Rated current [A]		
Efficiency mode	200	200
Hybrid turbo mode	2200 / 10	2200 / 10
MAX mode	3000 / 13.7	3000 / 13.7
Heating capacity [W]		
Efficiency mode	540	540
Hybrid turbo mode	2540	2540
MAX mode	3000	3000
Inner tank rated pressure bar	8	8
Range of water temperature [°C]	35-75	35-75
Environment range of energy-saving mode [°C]	10-44	10-44
Dimensions [A x B] [mm]	837 x 473	992 x 473
Net weight [kg]	42	45

HPI-D Series

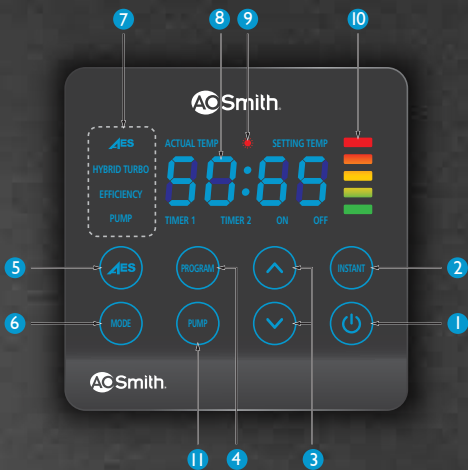
High End Residential Heat Pump

Features

- Heat pump water temperature 65°C
- Maximum water temperature 75°C
- Heat pump input 460w, COP 3.8
- Patented AES energy-saving system
- Two elements back up for quick recovery (3kW & 2+ 1kW)
- Timer setting
- Wired button control
- R134a Green refrigerant
- Instant mode (3000 W)



Wired Button Control



1. Power ON/OFF Button

Switches On/Off the water heater and displays the temperature in few seconds

2. Instant Heating Button

Heats instantly to reach a preset temperature

3. Increase/Decrease Button

Regulates the preset temperature

4. Program Button

Sets up the timer clock and the heating temperature

5. AES

Adapts heating cycle automatically resulting in optimal water usage and energy saving

6. Mode button

Interchanges different heating modes

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Indicates the mode in which Water heater is working

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Displays the Temperature, Clock and Timer settings

9) Heating Indicator

Glow to indicate the functioning of water heater

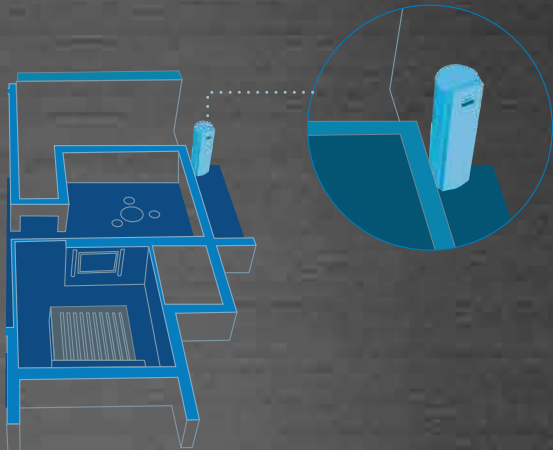
10. Display of hot water

Five lighting blocks display the hot water distribution at different levels in the tank

11. Circulation Pump

Controls the re-circulation pump of the building to ensure 24/7 Hot water and to eliminate water wastage (Sold seperately)

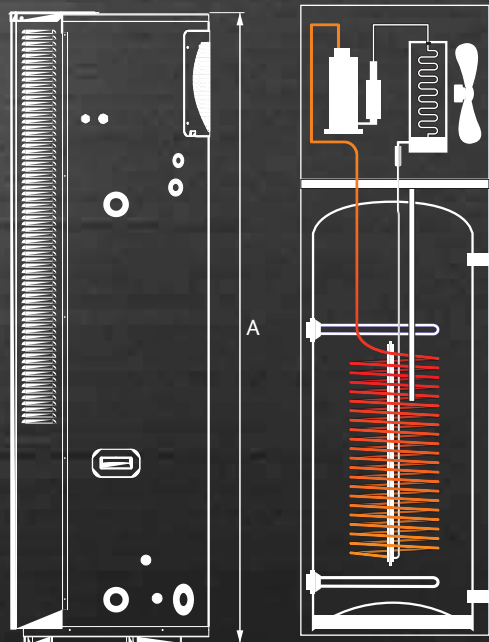
Installation Blueprint



Benefits

1. **Energy Saving Heating:** Extracts heat from the atmosphere to heat up the water
2. **Instant Heating:** Instantly heats up the water and reaches the preset temperature
3. **AES (Adaptive energy-saving system):** Adapts heating cycle automatically resulting optimal water usage and energy saving
4. **Hot water Quantity Display:** Indicates the amount of hot water available in the tank
5. **Intelligent defrosting:** The automatic defrosting resists freezing of exchanger
6. **Wired button control:** Convenience to access your water heater with Wired Touch Control
7. **Blue Diamond Glass coating:** Corresponds to longer life to your tank by it's corrison resistance and reduced scaling accumulation technology
8. **Anode rod protection:** Reduces corrison and protects the inner tank
9. **High-efficiency Energy Saving Insulation:** Reduces heat loss with its insulated layer of polyurethane foam

Line Diagram



Technical Specification

MODEL	HPI-40DI.0BE	HPI-50DI.0BE
Rated volume [L]	150	180
Voltage / Frequency [V/Hz]	220 / 50	220 / 50
Rated Input power (Efficiency Mode) (W)	460	460
Rated current (A)	13.6	13.6
Rated output power (Efficiency Mode) [W]	1750	1750
Maximum power of quick heating [A]	13.6	13.6
Water temperature range [°C]	35-75	35-75
Ambient temperature range for Efficiency [°C]	7-43	7-43
Tank rated pressure (bar)	10	10
Dimension A [mm]	1660	1850
Diameter of Tank	Ø520	Ø520
Weight of Tank (kg)	87	92

HPA-80/I 20 Split type

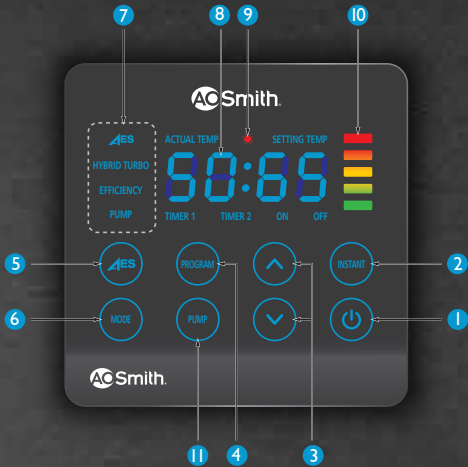
Residential and Commercial Heat Pump

Features

- Heat pump water temperature 65°C
- Maximum water temperature 75°C
- Patented AES energy-saving system
- Two elements back up (3kw & 2+1kw) or quick recovery
- Timer setting
- Wired Button Control
- R134a Green refrigerant
- Instant mode (3000 W)



Wired Button Control



1. Power ON/OFF Button

Switches On/Off the water heater and displays the temperature in few seconds

2. Instant Heating Button

Heats instantly to reach a preset temperature

3. Increase/Decrease Button

Regulates the preset temperature

4. Program Button

Sets up the timer clock and the heating temperature

5. AES

Adapts heating cycle automatically resulting in optimal water usage and energy saving

6. Mode button

Interchanges different heating modes

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Glow to indicate the functioning of water heater

10. Display of hot water

Five lighting blocks display the hot water distribution at different levels in the tank

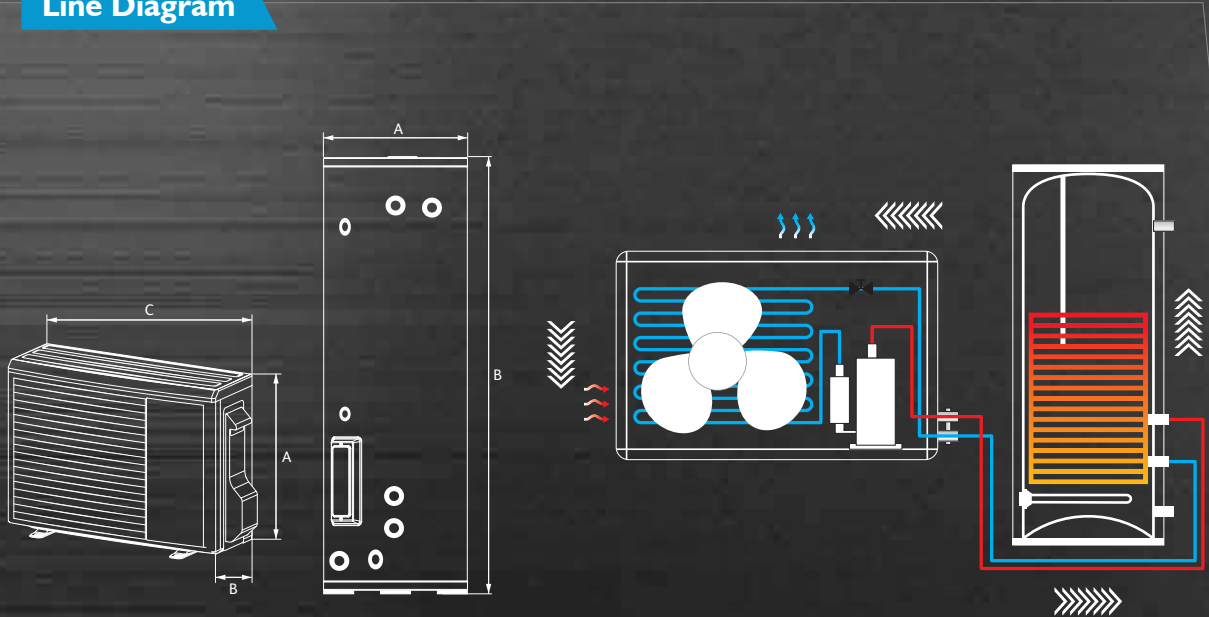
11. Circulation Pump

Controls the re-circulation pump of the building to ensure 24/7 Hot water and to eliminate water wastage (Sold seperately)

Benefits

1. **Energy Saving Heating:** Extracts heat from the atmosphere to heat up the water
2. **Instant Heating:** Instantly heats up the water giving a better bathing experience
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7. **Blue Diamond Glass coating:** Corresponds to longer life to your tank by it's corrison resistance and reduced scaling accumulation technology
8. **Anode rod protection:** Reduces corrison and protects the inner tank
9. **High-efficiency Energy Saving Insulation:** Reduces heat loss with its insulated layer of polyurethane foam

Line Diagram



Technical Specification

MODEL	HPA-80C1.5A	HAP-120D2.0A
Rated volume [L]	300	450
Voltage / Frequency [V/Hz]	220~ / 50	220~ / 50
Rated Input / Current [W/A]		
Efficiency Mode	1010/4.6	1380/6.5
Hybrid Turbo Mode	2010/9.1	2380/11
Output(W)COP	3.6	4.2
Efficiency Mode	3640	5800
Hybrid Turbo Mode	4640	6800
Water temperature range [°C]	35~75	35-75
Ambient temperature range for Efficiency [°C]	7~43	7~43
Tank rated pressure (bar)	10	10
External unit dimension A [mm]	560	740
B [mm]	320	350
C [mm]	835	820
Tank dimension A [mm]	Ø610	Ø710
B [mm]	1640	1660
Weight of external unit (kg)	37	55
Weight of tank (kg)	98	133
Refrigerant/Quantity	R134a/940(g)	R134a/1400(g)

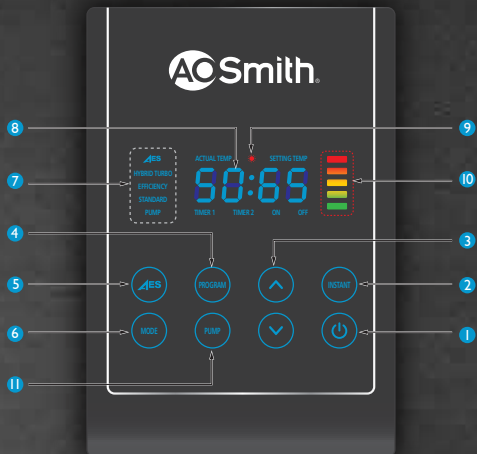
CAHP-1.5HP DI

Residential and Commercial Heat Pump

Features

- Heat pump water temperature 65°C maximum
- Energy-saving,, fast heating, electric back up and standard modes
- LED display
- R134a green refrigerant
- Integrate design for outdoor installation
- Available in 300 & 450 Litre storage

Wired Button Control



1. Power ON/OFF Button

Switches On/Off the water heater and displays the temperature in few seconds

2. Instant Heating Button

Heats instantly to reach a preset temperature

3. Increase/Decrease Button

Regulates the preset temperature

4. Program Button

Sets up the timer clock and the heating temperature

5. AES

Adapts heating cycle automatically resulting in optimal water usage and energy saving

6. Mode button

Interchanges different heating modes

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Indicates the mode in which Water heater is working

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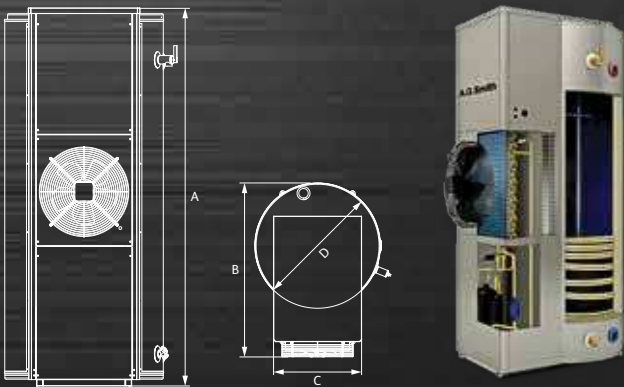
11. Circulation Pump

Controls the re-circulation pump of the building to ensure 24/7 Hot water and to eliminate water wastage (Sold seperately)

Benefits

1. **Energy Saving Heating:** Extracts heat from the atmosphere to heat up the water
2. **Instant Heating:** Instantly heats up the water giving a better bathing experience
3. **AES (Adaptive energy-saving system):** Adapts heating cycle automatically resulting optimal water usage and energy saving
4. **Hot water Quantity Display:** Indicates the amount of hot water available in the tank
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6. **Wired button control:** Convenience to access your water heater with Wired Touch Control
7. **Blue Diamond Glass coating:** Corresponds to longer life to your tank by it's corrison resistance and reduced scaling accumulation technology
8. **Anode rod protection:** Reduces corrison and protects the inner tank
9. **High-efficiency Energy Saving Insulation:** Reduces heat loss with its insulated layer of polyurethane foam

Line Diagram



Technical Specification

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
Hot Water Delivering Rate ($\Delta T=30^{\circ}\text{C}$)	Efficiency	L/h	105	
	High Demand	L/h	277	449
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	$^{\circ}\text{C}$	65		
Operation Temperature Range	$^{\circ}\text{C}$	37~75		
Ambient Temperature for HP	$^{\circ}\text{C}$	7~43		
Unit Operation Noise	dB (A)	54		
Air Outlet Noise	dB (A)	58		
Demison (LxWxH) mm	mm	910x610x1700	1012x713x1700	1012x713x1700
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, Water pump controlling, AES HP		
Power Supply Specifications	/	230V~50Hz	230V~50Hz	230 400V 3N~50Hz
Connection Size ~ Inlet / Outlet / T&P Valve	/	NPT 3/4 (Female Thread)		
Drain Valve	/	NPT 3/4 (Female Thread)		

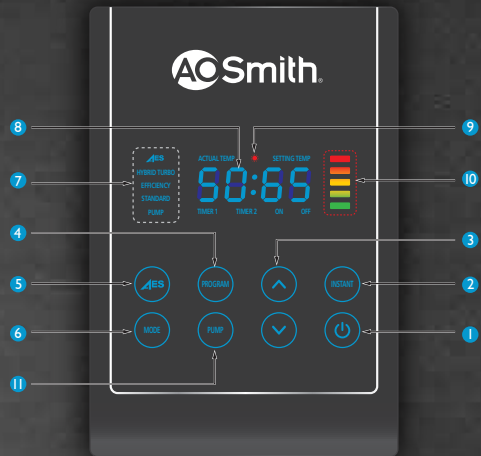
CAHP-3HP DI

High End Residential and Commercial Heat Pump

Features

- Heat pump water temperature 65°C maximum
- Energy-saving, fast heating, electric back up and standard modes
- Smart control to avoid cold water mixing
- LED display
- R134a green refrigerant
- Integrate design for outdoor installation

Wired Button Control



1. Power ON/OFF Button

Switches On/Off the water heater and displays the temperature in few seconds

2. Instant Heating Button

Heats instantly to reach a preset temperature

3. Increase/Decrease Button

Regulates the preset temperature

4. Program Button

Sets up the timer clock and the heating temperature

5. AES

Adapts heating cycle automatically resulting in optimal water usage and energy saving

6. Mode button

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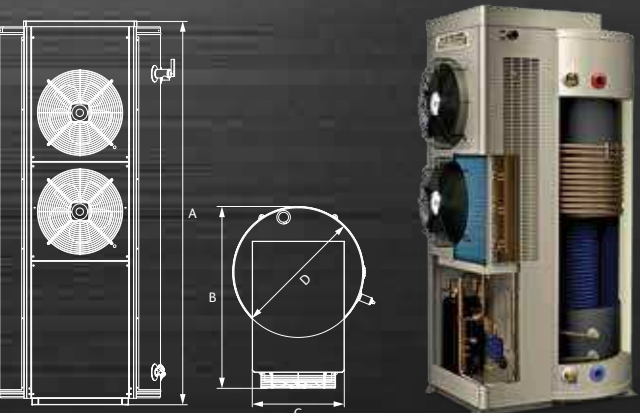
11. Circulation Pump

Controls the re-circulation pump of the building to ensure 24/7 Hot water and to eliminate water wastage (Sold seperately)

Benefits

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Line Diagram



Technical Specification

MODEL			CAHP3.0-120-6	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	6000	12000
Maximum Operation Current	400V / 3N / 50Hz	A	15.8	31.5
	230V / 1N / 50Hz	A	47.1	78.5
Hot Water Delivering Rate (ΔT-30℃)	Efficiency	A	230	230
	High Demand	A	401	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		℃	65	
Operation Temperature Range		℃	35~75	
Ambient Temperature for HP		℃	7~43	
Unit Operation Noise		dB (A)	59	
Air Outlet Noise		dB (A)	62	
Demison (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)	

CAHP-5HP/10HP

Residential & Commercial Heat Pump

Features

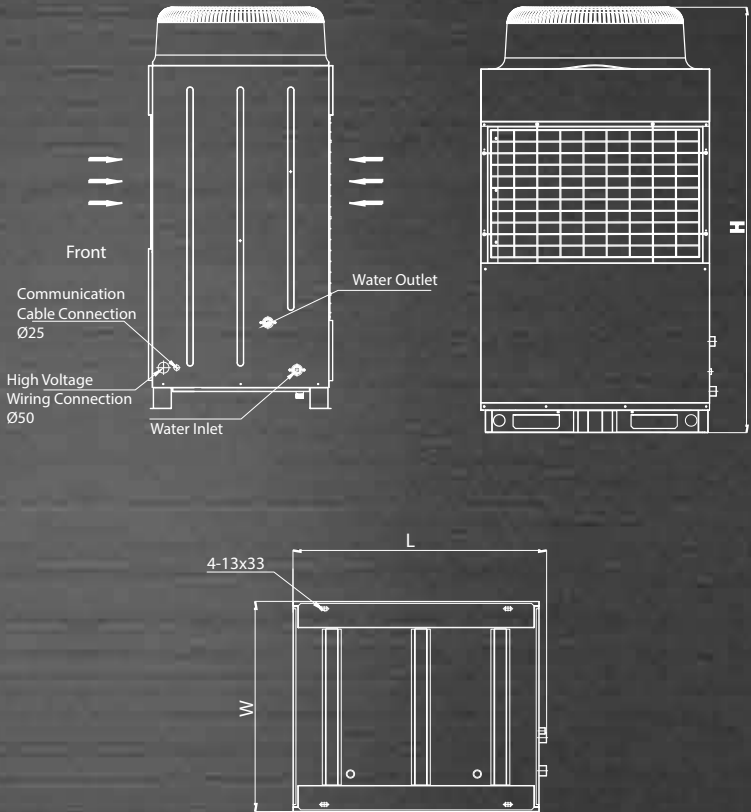
- Energy-saving
- Power off memory
- Auxiliary heater control system
- Refrigerant: R410a
- LCD Display
- Operated centrally controlled

Common Applications

- Commercial:** Restaurant/Kitchens
- Institutional:** Hospitals, Hotels, Schools, Hostels, Resorts
- Residential:** Villas, Apartments, Guesthouses
- Industrial:** Factories, Laundries



Line Diagram



Technical Specification

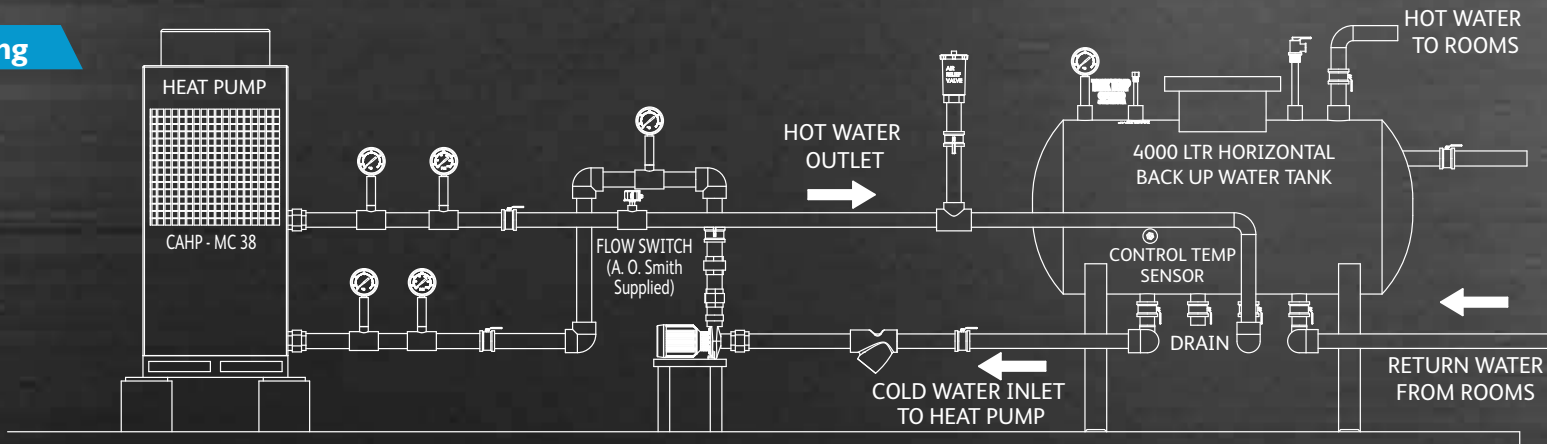
MODEL	CAHP-MC-38 (10HP)	CAHP-MC-19 (5HP)
Power Supply	380V 3N ~ 50Hz	380V 3N ~ 50Hz
Voltage Range	380V +/- 10%	380V +/- 10%
Rated Heating Capacity(1)	38 kW	19.8 kW
Rated Water Flow(1)	6.5 CMH	3.4 CMH
Rated Power Input (1)	10.3 kW	6.02 kW
Rated Operation Current(1)	18.6 A	11.0A
Maximum Power Input	13.2 kW	6.8 kW
Maximum Operation Current	23.3 A	11.7 A
Operation Noise (2)	65 dB(A)	60 dB(A)
Refrigerant / Quantity	R410a / 6.2kg	R410a / 2.8kg
Refrigerant Side High Side	4.2 Mpa	4.4 Mpa
Design Pressure Low Side	3.1 Mpa	3.1 Mpa
Water Side Design Pressure	1.0 Mpa	1.0 Mpa
Water Side Pressure Drop (3)	45 kPa	73 kPa
Water Connection Size	DN40 (RI 1/2")	DN32 (RI 1/4")
Waterproof Class	IPX4	IPX4
Net Weight	287 kg	170 kg
Dimensions (L x W x H)	1020 x 846 x 1840 mm	719 x 761 x 1160 mm

Note:

(1) Rated condition: Ambient temperature 20/15oC (dry/wet bulb), water temperature 47/52oC (inlet/outlet).

(2) Sound pressure value at one meter. | (3) Measured at the rated water flow.

Schematic Drawing



Our Clientele - Prestigious and Diverse

For over 70 years, our innovative products have been the choice of business owners as well as property managers in numerous industries across the world. While the wide range of products meets our patrons' specific needs, the unmatched quality and energy-efficient solutions provide complete satisfaction. What's more, the world-class service comes up with optimal solutions and take care of issues methodically.

Hospitals



Institutions



Workspace



Industrial



Luxury Residential



Hotels



India's
most trusted
water heater brand
3 TIMES IN A ROW 2018, 2019 & 2020



Service Excellence

A. O. Smith comes with the assurance of the highest quality of service. We strongly believe in customer delight through our 3 P's - Product, Pre and Post-sales services. We have a vast network to cater to varying industries, ranging from Hotels, Hospitals, Manufacturing units, Airports and High-end villas across the country. We have created an ecosystem to provide a service par excellence to ensure an uninterrupted supply of quality hot water. We promise - whenever and wherever you need us, we'd just be a call away.

Our 4-step Service Support Approach



Sizing and Selection

We consult our clients and provide technical support by

- 1 Calculating the heat load requirements for the site
- 2 Sizing and Selection of the best-suited product
- 3 System Designing and Space Allocation



Training Support for Channel Partners

The authorized PAN India network of channel partners are regularly trained by A.O. Smith experts



Regional Service Team

Regional service teams are dedicated for each zone to solve any concern from channel partners



Central Service Team at HO

The Central Team supports with training, availability of spare parts & provides clarification on technical queries

All service cases are attended to and monitored by the regional sales team as well for better communication with clients.

The above-stated approaches are curated keeping in mind that the clientele enjoys the same amount of pleasure it did while purchasing our product.

We focus on providing the most cogent and beneficial after-sales support to attain maximum clientele satisfaction and reaffirming their trust and loyalty to our brand and offerings.

India's widest range of Heat Pumps.

