

# FEATURES

## Environmentally Friendly Energy Savings

- ENERGY STAR®—Qualified with an industry-leading 4.2 COP
- Large-capacity tank enables heat pump to operate more frequently than electric elements, saving money for the end-user

## Commercial Performance

- First-hour delivery exceeds 150 GPH
- Heat pump power rating of 3.15 HP
- Electric heating element capacity of 12 kW
- Max water temperature of 150° F in Efficiency and Hybrid modes—and 180° F in Electric mode

## Ease of Operation

- Integrated design and pre-charged refrigeration system make for a quick and easy install
- Large touchscreen LCD display allows for mode selection, provides run information, and includes troubleshooting alerts and detail
- Three operating modes (Efficiency, Hybrid and Electric) maximize efficiency while meeting specific hot water demands

## Dependable and Long-Lasting Design

- Glass-coated tank developed by A. O. Smith
- Tank rated at 150 PSI working pressure
- Electric elements include incoloy sheathing and provide excellent protection from oxidation and scaling
- Backed by 3-year tank and 1-year parts/compressor limited warranties



**COMMERCIAL PERFORMANCE  
WITH MAXIMUM EFFICIENCY**



## SAMPLE ANNUAL ENERGY SAVINGS

Example City	Gallons Per Day Used	Annual kWh	Annual Energy Savings Estimate with CHP-120 Heat Pump Compared to Standard Commercial Electric
Boston	350	6,206	\$3,461
Orlando	350	5,695	\$1,909
Houston	350	5,695	\$1,598
Los Angeles	350	5,841	\$3,197
Milwaukee	350	6,206	\$2,335

*Annual energy savings based on 100% of water heated in heat pump (efficiency) mode.*



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**INTRODUCING THE  
HIGH-EFFICIENCY CHP-120  
COMMERCIAL HEAT PUMP  
WATER HEATER**

# SAVE ENERGY WITH HEAT PUMP TECHNOLOGY

The CHP-120 is an integrated system designed specifically for commercial use. This water heating solution utilizes industry-leading heat pump technology to provide a more efficient way to heat water with electricity. By pulling heat from the surrounding air and transferring it into the tank, the heat pump also produces cooler, dehumidified air as a welcome by-product.

Most importantly, by moving heat rather than generating it the CHP-120 operates at an industry-leading 4.2 coefficient of performance (COP). It also has 120 gallons of storage capacity to maximize performance and energy savings. These two qualities make the CHP-120 a low greenhouse gas emission, sustainable water heating solution and an integral part of any all-electric site design. The CHP-120 may qualify for local utility rebates or credits where available. Visit [hotwater.com](http://hotwater.com) to search for rebate opportunities in your area.

The CHP-120 is perfect for light commercial applications such as quick-serve restaurants, schools, retail buildings, and any other commercial application that would typically use a traditional 120-gallon commercial electric water heater. For larger applications, multiple CHP-120 water heaters can be combined and used together.



**The A. O. Smith®  
High-Efficiency CHP-120**

# HOW IT WORKS

Microchannel heat exchanger transfers heat into the tank

Dual 6 kW heating elements provide additional heating capability for periods of high demand

High-capacity compressor pumps the hot refrigerant gases through the microchannel heat exchanger that is wrapped around the tank

LCD touchscreen display for easy control of temperature settings and operational information

High-efficiency evaporator fans discharge cool air to the mechanical room

Evaporator coil captures the heat from the air and transfers it to the R-134a refrigerant

Refrigeration system components including electronic expansion valve, coil, accumulator, 4-way valve, and charging ports

