

COMMERCIAL WATER HEATERS

Lochinvar's Commercial Heat Pump electric water heater is available in 119 gallon capacity and features a heat pump operating with environmentally-friendly R134a refrigerant that will absorb ambient heat from the surrounding air to reduce electrical consumption.

COMMERCIAL HEAT PUMP ELECTRIC MODELS

STANDARD FEATURES

HEAT PUMP – The 3.81 horsepower (240v) or 3.69 horsepower (208v) Heat Pump transfers heat from the surrounding air to the water in the tank at an industry leading 4.3* Coefficient of Performance (COP). Dual evaporator fans maximize performance and cool the equipment room.

ELECTRONIC CONTROL - The electronic control features an LCD touch screen display with three operating modes (Efficiency, Hybrid or Electric) to match the hot water demand. The LCD display will provide runtime information and troubleshooting alerts.

IMMERSION HEATING ELEMENTS - Two 6 kW incoloy sheathed elements provide backup heat to the heat pump. The elements screw in for easy service and replacement.

OPERATING RANGES - Operating ambient range from 20°F to 110°F with maximum set point water temperature of 150°F in Efficiency or Hybrid mode and maximum 180°F in Electric mode.

GLASS-LINED STEEL TANK - The durable glass lining is fused to the steel tank at 1600°F to assure lasting protection against rust and corrosion while providing clear, clean hot water and 160 PSI working pressure.

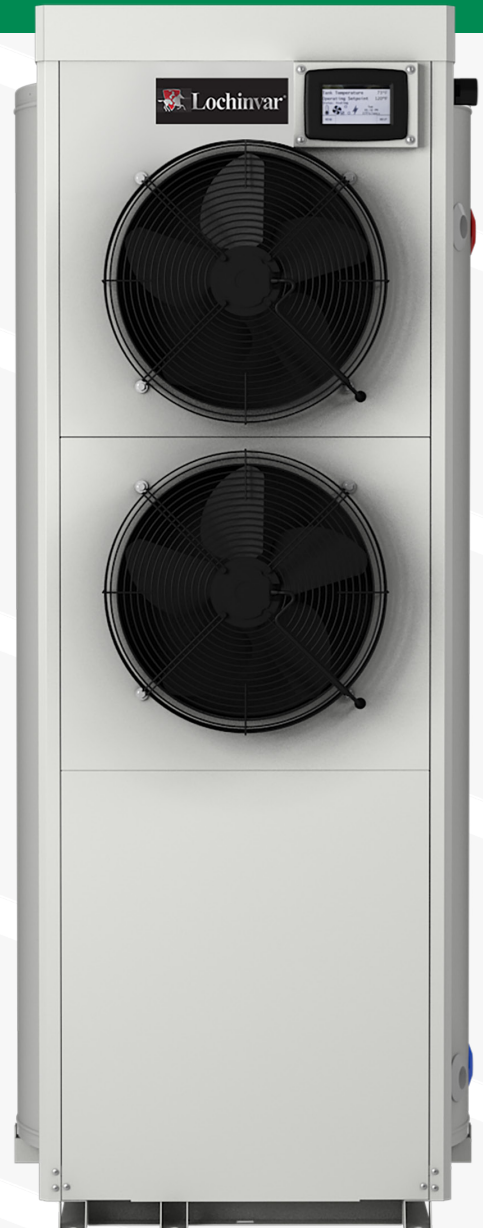
TANK SAVER ANODE - A large diameter, high capacity anode inhibits corrosion of the tank interior for long, trouble-free service.

TEMPERATURE & PRESSURE RELIEF VALVE - Factory installed for optimum safety.

BRASS DRAIN VALVE - Designed for effective drainage and positive shut-off.

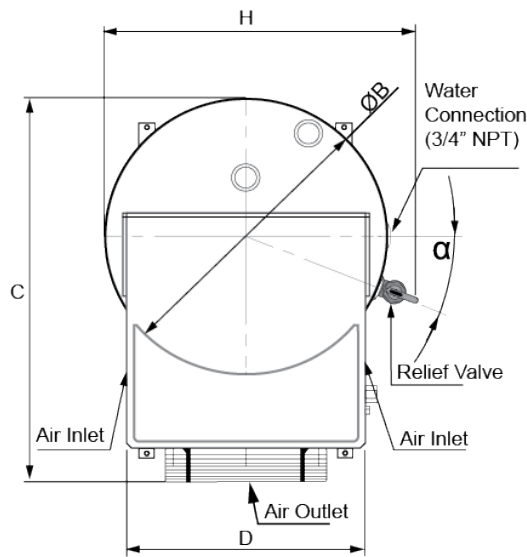
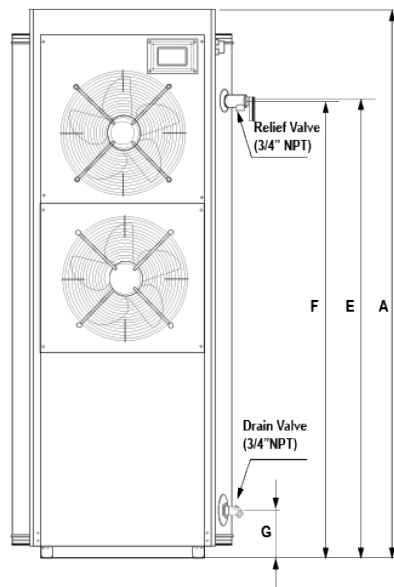
3-YEAR LIMITED TANK, 1-YEAR PARTS & COMPRESSOR LIMITED WARRANTY* – See warranty for details.

*DOE test standard: 80° F ambient with 63% humidity, inlet water temperature at 70° F, outlet water temperature at 120° F.



Lochinvar®
HIGH EFFICIENCY BOILERS & WATER HEATERS

DIMENSIONS AND SPECIFICATIONS



FOR EASE IN ORDERING
BY MODEL NUMBER

CHP	A	120	P	D
Heat Pump	Voltage	Tank Capacity	Element Wattage	Element Qty.

This is a commercial heat pump model that has 120 gallon capacity with two 240 volt 6,000 elements.

COMMERCIAL HEAT PUMP ELECTRIC MODELS

DIMENSIONS AND SPECIFICATIONS

Nominal Model Number	Rated Gallon Cap	Storage Cap.	240V Input Watts	Standard Voltage	1st Hr. Delivery @ 100°F rise in Hybrid Mode (GPH)	COP*	A	B	C	D	E	F	G	H	α (°)	Ship. Wt
CHPA120PD	119	120	6,000	208/240	194	4.3	69-1/2"	28"	39-1/4"	23-5/8"	58-1/4"	58"	6"	31"	22	620

Mode of Operation	Btu/hr	Input kW	Recovery Rate in Gallons Per Hour Temperature Rise °F													
			30°F	40°F	50°F	60°F	70°F	80°F	90°F	100°F	110°F	120°F	130°F	140°F		
Efficiency	41,669	12.2	169	126	101	84	72	63	56	50	46	-	-	-		
Hybrid	82,615	24.2	334	250	200	167	143	125	111	99	91	-	-	-		
Electric	40,946	12	166	124	99	83	71	62	55	49	45	41	38	35		

*DOE 80°F ambient air with 63% humidity 70°F inlet water and 120°F outlet water temperatures.

Installation Key Considerations

Service clearances	A service clearance of 24" should be maintained from serviceable parts such as the T&P valve, control system components, drain valve, and anode.
Ambient air temperature	In Efficiency Mode, the heater will minimize element use when the ambient air temperature is between 45°F and 110°F
Room size requirement	Recommended to have a minimum installation space of approximately 3,200 cubic feet. Installation spaces less than the recommended could result in reduced water heater efficiency and performance. If the water heater is installed in a confined space with less than 3,200 cubic feet, provisions should be made to ensure sufficient airflow, such as installing louvered grills or fully louvered doors to ensure the most efficient operation of the water heater. Failure to do so could result in reduced heater efficiency and performance.
Amperage/Overcurrent protection	This water heater requires a 208 or 240 VAC single phase power supply. 208V requires 80 amp power supply at 60 Hz; 240V requires 90 amp power supply at 60 Hz.
Condensate draining	This water heater produces condensate and must be properly drained.
Ducting	There is not an optional ducting kit. Discharge air from the front of the water heater must be into a suitable room.
Indoor/Outdoor	This water heater is approved for indoor use only.

This is a partial list. Please reference the Installation Manual for detailed installation considerations.

For technical information call 800-722-2101. Lochinvar, LLC reserves the right to make product changes or improvements without prior notice.



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