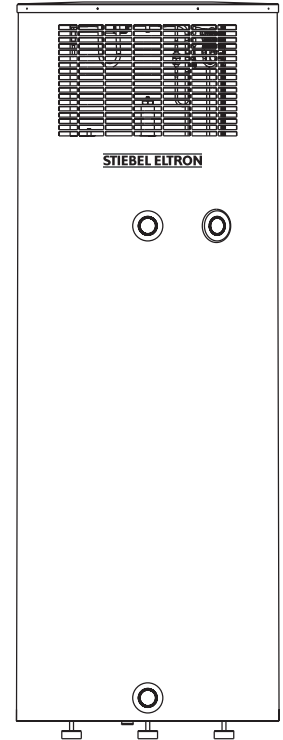


80 GALLON 208-240 V AIR SOURCE HEAT PUMP WATER HEATER FOR RESIDENTIAL AND COMMERCIAL APPLICATIONS.

Specifications

Model	Accelera® 300 Heat Pump Water Heater	
General Data		
Part no.		222423
Operating temperature range	°F / °C	42 to 108 / 6 to 42
DHW temperature	°F / °C	140 / 60
Air flow rate	CFM	324
Sound level @ 1.1 yards / 1 m	dB(A)	64.2
Capacity	Gal / l	80.044 / 303
Refrigerant filling weight	-- / g	R 134a / 900
Height	in / cm	73.8 / 187.4
Diameter	in / cm	26 / 66
Height of unit when tilted including packing	in / cm	90 / 228.6
Weight dry	lb / kg	286.6 / 130
Weight wet	lb / kg	952.4 / 432
Water connection	in	R3/4" NPT
Condensate connection	in	3/4"
Condenser		Safety heat exchanger (tank wrap-around condenser)
Operating pressure, water side	Psi / MPa	87 / 0.6
Permiss. positive pressure, refrigerant side	Psi / MPa	348.1 / 2.4
Electrical Data		
Voltage / Frequency	V / Hz	Single Phase 220-240 / 60
Maximum power draw	kW	2.2
Circuit breaker	A	15
Rated current compressor & fan	A	2.5
Rated power consumption compressor & fan ²⁾	kW	0.5
Rated power, booster heater	kW	1.7
Heating output, heat pump ³⁾	kW	approximately 1.7
COP (t) ³⁾		3.18
Typical COP range		3-6
Energy factor according to ENERGY STAR		2.508
First hour rating	Gal / l	78.6 / 297.5



¹⁾ Tamb = 107.6 °F / 42 °C Twater = 140 °F / 60 °C / 240 V ²⁾ Test point to DIN 8947 at 59 °F / 15 °C air temperature, 70 % rel. humidity and 113 °F / 45 °C water temperature.

³⁾ Test point at 59 °F / 15 °C air temperature, 70 % rel. humidity, heating up water from 59 °F / 15 °C to 140 °F / 60 °C (according to EN 255 T3, 240 V / 60 Hz)

Description

The beauty of heat pump water heating technology is that the amount of electrical energy needed to create hot water is greatly reduced compared to a conventional electric tank type water heater. The Accelera's compressor and fan consume only 1 kWh of electricity to generate the heat equivalent of 3 – 5 kWh. The efficiency of the unit goes up with increasing ambient air temperatures. This ground breaking efficiency redefines what a water heater is capable of.

In a warm climate, the unit can either be placed in the garage where it takes heat from the ambient air, or inside the house, where it helps with the air conditioning load. In a cooler climate, the unit is typically placed in the basement where it also acts as a dehumidifier. You get hot water at a discount and a dry basement as well.

If the heat pump that is built into the unit alone cannot keep up with the hot water demand then an electric backup element with 1.7 kW loading will automatically activate.

- REDUCES HOT WATER COSTS BY UP TO 80%
- COOLS AND DEHUMIDIFIES THE AIR AROUND IT
- LOW STAND-BY LOSSES THROUGH GOOD INSULATION
- 80 GALLON STORAGE CAPACITY
- 10 YEAR WARRANTY
- 2.5 ENERGY FACTOR



ISO 9001
CERTIFIED

