STIEBEL ELTRON

Simply the Best

Accelera® E Heat Pump Water Heaters

Applications

Commercial > Industrial > Institutional

- › Office buildings
- > Stores
- > Malls
- > Schools
- > Hotels/Motels

> Gas stations

Commercial condominiums

- > Warehouses
- > Restaurants

General Data

Air flow rate

Capacity

Height

Diameter

Weight dry

Weight wet

Water connection

Safety condenser

Voltage / Frequency

Circuit breaker

Condensate connection

Operating pressure, water side

Electrical Data & Performance

Rated current compressor & fan

Rated power, booster heater

Heating output, heat pump³

ENERGY STAR energy factor

DOE est. yearly energy cost

First hour rating

DOE est. yearly energy usage / cost

Rated power consumption compressor and fan²

High pressure cutoff, refrigerant side

DHW temperature

Sound power level*

Refrigerant / filling weight

Item no.

Manufacturing facilities

Technical Data

Operating temperature range

Sound pressure level* @ 3.3 feet (1 m)

Height of unit when tilted incl. packing

Residential

Accelera[®] 220 E

149°F (65°C)

42 °F to 108 °F (6 °C to 42 °C)

233058

324 CFM

52 dB(a) 58 gal (220 l)

R134a / 850 g

 $60^{7}/_{8}^{"}$ (1545 mm)

27¹/₈" (690 mm)

74¹/₈" (1895 mm)

264.5 lb (120 kg)

1" male NPT

87 psi (600 kPa)

348.1 psi (2.4 MPa)

220-240 V / 60 Hz

15 A

2.7 A

650 W

1500 W

3.05

\$169

1040 kWh

approx. 1700 W

50.3 gal (190.4 l)

748.5 lb (339.5 kg)

Wraps around outside

3/4" male NPT to 1/2" barbed elbow

60 dB

- > Homes
- > Condos › Apartments
- > Cabins/cottages

Accelera[®] 300 E

79.8 gal (302 l)

R134a / 900 g

75¹/4" (1913 mm)

87³/4" (2230 mm)

297.6 lb (135 kg)

956.6 lb (433.9 kg)

233059







Tested and certified by WQA Conforms to ANSI/UL Std. against NSF/ANSI 372 for 174 & 1995 lead free compliance. Certified to CAN/CSA C22.2 No. 110-94 & 236-05

> ISO 9001 CERTIFIED







* Sound Power Level measures the sound energy emitted by a source. Sound Pressure Level (SPL) measures the sound level (loudness) at a distance from the source. SPL varies depending on the acoustic environment and the accuracy of the measurement device.

 $^{1}T_{amb}$ = 107.6 °F (42 °C) T_{water} = 149 °F (65 °C) / 240 V ² Test point to DIN 8497 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 149°F (65 °C), according to EN 255 T3, 240 V / 60 Hz

8.2020 | Due to our continuous process of engineering and technological advancement, specifications may change without notice. ev.

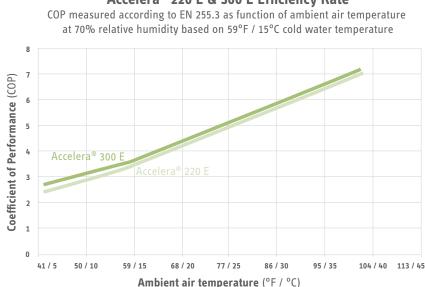
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3.39

\$155

1289 kWh

74.2 gal (280.8 l)



Accelera[®] 220 E & 300 E Efficiency Rate

- > Selection of high-efficiency or high-demand operating modes
- LCD displays energy content in the tank, setpoints, current temperature, aids in troubleshooting and can display in either SI or US units.
- Boost function can provide extra hot water for 48 hours at the press of a button.

- > 58 & 80 gallon storage capacities
- > Up to 4 units can be combined in parallel for additional capacity
- > Reduces hot water costs by up to 80%
- > Cools & dehumidifies the air around it
- > Impressed current anode
- > Reliable German engineering
- > Low stand-by loss due to 3" insulation
- Designed to rely on the heat pump, not the back-up element, with a 90% heat pump / 10% element annual usage breakdown
- > Runs in automatic by default
- Single 240 V 15 amp breaker and Smart Grid ready
- Wrap-around aluminum condenser on the market prevents any possible potable water contamination with refrigerant and reduces problems with lime scaling
- Defrost cycle is engineered to not interrupt heat pump operation for greater efficiency
- A filter is unnecessary because the evaporator self-cleans during defrost mode due to its optimal fin spacing and hydrophobic coating
- Angled air path offers more installation opportunities including next to shorter appliances
- > 10-year warranty

Specification

The water heater shall be Accelera[®] E air-to-water heat pump manufactured by Stiebel Eltron in E.U. with a 10-year warranty. Water heater shall have 3 adjustable rubber feet for leveling unit that shall also provide sound/vibration isolation. Tank shall be 58 gal. or 80 gal. with interior of hygienic glass enamelled surface and an impressed current anode. Heat pump thermal capacity shall be 1.7 kW and cooling capacity 1.0 kW, with thermal losses less than 504 Wh/24h for 220 E or 600 Wh/24h for 300 E at 45 K temp. difference. Tank insulation shall be 3" polyurethane foam insulation. There shall be a single electric resistance element of 1.5 kW. Heat pump shall be fitted with a safety pressure switch at 24 bar (348 PSI). Operation temperature limit shall be 107.6 °F to 42.8 °F. Unit shall be equipped with automatic defrost via fan-driven ambient air and shall have a fast pressure equalization to prevent cycling compressor after power outage. Housing shall be hot dip power painted galvanized sheet metal without welding and have salt air impervious screws. Refrigerant circuit shall have corrosion protection via a stainless steel expansion valve and a coated evaporator salt mist tested to ASTM B 287-74/G84-95 200 hrs. Compressor shall be a high efficiency reliable rotary compressor with thermal overload switch. Refrigerant circuit shall be stainless steel parts and silver alloy brazed copper tubing with recuperator tubing. Water connections shall be NPT.

Engineer/Architect		Date
Job Name/Customer		Location
Contractor		Representative
	Qty	
Accelera® model		