

Simply the Best

Accelera E Heat Pump Water Heaters

Applications

Commercial > Industrial > Institutional

- Office buildings
- > Gas stations
- Stores
- > Schools
- > Malls
- > Hotels/Motels
- > Warehouses > Restaurants
- > Commercial condominiums
- > Manufacturing facilities

Residential

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



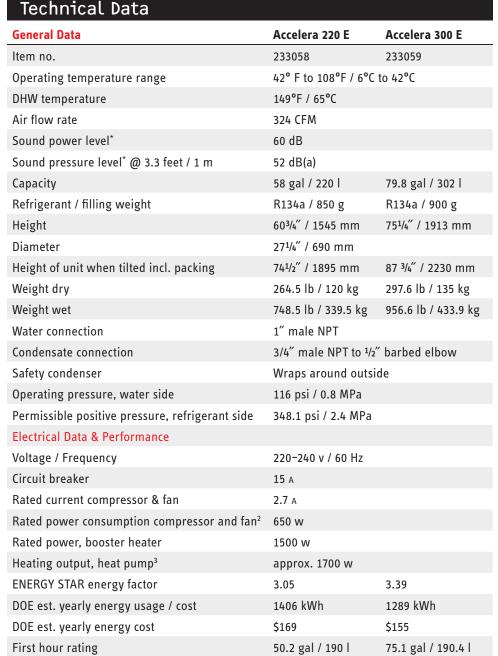




Tested and certified by WQA Conforms to ANSI/UL Std. against NSF/ANSI 372 for lead free compliance.

174 & 1995 Certified to CAN/CSA C22.2 No. 110-94 & 236-05

ISO 9001 CERTIFIED



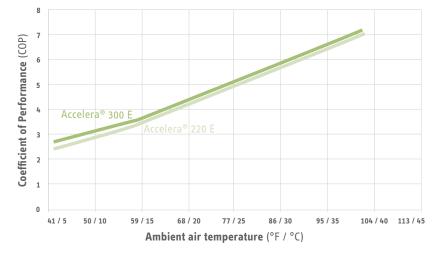


^{*}Sound Power Level measures the sound energy emitted by a source. Sound Pressure Level (SPL) measures the sound level (loudness) at a distance from the source. SPL varies depending on the acoustic environment and the accuracy of the measurement device.

 $^{^1\,}T_{amb}$ = 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. Test point at 59°F / 15°C air temperature, 70% rel. humidity, heating up water from 59°F / 15°C to 149° / 65°C (according to EN 255 T3, 240 V / 60 Hz)

Accelera® 220 E & 300 E Efficiency Rate

COP measured according to EN 255.3 as function of ambient air temperature at 70% relative humidity based on 59°F / 15°C cold water temperature



- > 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 "heat pump mode" 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 1.51 KWh/24h for 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 22.4 bar (324 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	

2016.1 | Due to our continuous process of engineering and technological advancement, specifications may change without notice.