

## Simply the Best

### Accelera® E Heat Pump Water Heaters

Engineer/Architect:	Date:
Job Name/Customer:	Phone:
Location:	Date Required:
Contractor:	Phone:

#### Description

The Accelera® E extracts 80 percent of the heat it needs to make hot water from the energy in ambient air. The heat pump draws only 650 watts and every watt it uses generates 3–5 watts of hot water. In warm climates, the unit can be placed in a garage, where it uses the heat from the outside air; or inside the house, where it helps with air conditioning. In cooler climates, it is typically placed in a basement where it also dehumidifies the basement.

- > Made in the E.U.
- Accelera E qualifies for federal, state, local, and utility financial incentives that may be available for heat pump water heaters
- > Single, specially-designed 1500-watt back-up element can be disabled
- Only wrap-around aluminum condenser on the market means no possible contamination of potable water
- > Superior insulation guarantees ultra-low standby losses
- Impressed current anode never needs replacing
- > The higher the ambient air temperature where the unit is located, the greater the efficiency will be
- Heat pump requires sufficient air in order to work and should not be installed in a closed space smaller than 10 ft. x 10 ft. x 8 ft.
- Water heater height is approximately 61 in. tall and 1 foot minimum additional is needed for servicing
- Heat pump will dehumidify the space where it is installed and cool it down approximately 2-6°F (1-3°C)
- Moisture removed from the air by the heat pump requires a condensate drain
- > Make sure the floor will support 1000 lbs., the weight of a water-filled unit
- Do not install in a location where air temperature regularly drops below 42°F (6°C) or above 108°F (42°C)
- Heat pump water heaters make noise roughly equivalent to a freezer while in operation and should not be installed where this would be a problem



Item no.       233058       233059         Operating temperature range       42° F to 108°F / 6°C to 42°C         DHW temperature       149°F / 65°C         Air flow rate       324 CFM         Sound power level*       60 dB         Sound pressure level* @ 3.3 feet / 1 m       52 dB(a)         Capacity       58 gal / 220 l       79.8 gal / 302 l         Refrigerant / filling weight       R134a / 850 g       R134a / 900 g         Height       60³¼" / 1545 mm       75¼" / 1913 mm         Diameter       27½" / 690 mm       87¾" / 2230 mm         Weight of unit when tilted incl. packing       74½" / 1895 mm       87¾" / 2230 mm         Weight dry       264.5 lb / 120 kg       297.6 lb / 135 kg         Weight wet       748.5 lb / 339.5 kg       956.6 lb / 433.9 kg         Water connection       3/4" male NPT         Condensate connection       3/4" male NPT to ½" barbed elbow         Safety condenser       Wraps around outside         Operating pressure, water side       116 psi / 0.8 MPa         Permissible positive pressure, refrigerant side       348.1 psi / 2.4 MPa         Electrical Data & Performance       220-240 v / 60 Hz         Voltage / Frequency       220-240 v / 60 Hz         Circuit breaker       15 A
DHW temperature  Air flow rate  Sound power level*  60 dB  Sound pressure level* @ 3.3 feet / 1 m  52 dB(a)  Capacity  8134a / 850 g  R134a / 900 g  Height  603/4" / 1545 mm  751/4" / 1913 mm  Diameter  271/4" / 690 mm  Height of unit when tilted incl. packing  Weight dry  264.5 lb / 120 kg  297.6 lb / 135 kg  Water connection  1" male NPT  Condensate connection  3/4" male NPT to 1/2" barbed elbow  Safety condenser  Operating pressure, water side  Permissible positive pressure, refrigerant side  Electrical Data & Performance  Voltage / Frequency  Circuit breaker  Rated current compressor & fan  22 d AB(a)  79.8 gal / 202 l  79.8 gal / 302 l  79.8 gal /
Air flow rate  Sound power level*  Sound pressure level* @ 3.3 feet / 1 m  Capacity  Segal / 220 l  Refrigerant / filling weight  Refrigerant / filling weight  Reight  Sound pressure level* @ 3.3 feet / 1 m  Segal / 220 l  Refrigerant / filling weight  Refrigerant / filling weight  Refrigerant / filling weight  Reight  Solution  Refrigerant / filling weight  Refri
Sound power level* Sound pressure level* @ 3.3 feet / 1 m  Capacity  S8 gal / 220 l  Refrigerant / filling weight  R134a / 850 g  R134a / 900 g  Height  60³¼" / 1545 mm  75¹¼" / 1913 mm  Diameter  27¹¼" / 690 mm  Height of unit when tilted incl. packing  Weight dry  264.5 lb / 120 kg  297.6 lb / 135 kg  Water connection  1" male NPT  Condensate connection  3/¼" male NPT to ¹½" barbed elbow  Safety condenser  Operating pressure, water side  Permissible positive pressure, refrigerant side  Electrical Data & Performance  Voltage / Frequency  Circuit breaker  Rated current compressor & fan  20 d B  80 dB  8134a / 900 g  R134a / 900 g  R14b / 1913 mm  75¼" / 1895 mm  87 ¾" / 12230 mm  87 ¾" / 2230 mm  97 ¾ / 10 / 10 kg  97 6 lb / 135 kg  97
Sound pressure level* @ 3.3 feet / 1 m 52 dB(a)  Capacity 58 gal / 220 l 79.8 gal / 302 l  Refrigerant / filling weight R134a / 850 g R134a / 900 g  Height 603/4" / 1545 mm 751/4" / 1913 mm  Diameter 271/4" / 690 mm  Height of unit when tilted incl. packing 741/2" / 1895 mm 87 3/4" / 2230 mm  Weight dry 264.5 lb / 120 kg 297.6 lb / 135 kg  Weight wet 748.5 lb / 339.5 kg 956.6 lb / 433.9 kg  Water connection 1" male NPT  Condensate connection 3/4" male NPT to 1/2" barbed elbow  Safety condenser Wraps around outside  Operating pressure, water side 116 psi / 0.8 MPa  Permissible positive pressure, refrigerant side 348.1 psi / 2.4 MPa  Electrical Data & Performance  Voltage / Frequency 220-240 v / 60 Hz  Circuit breaker 15 A  Rated current compressor & fan 2.7 A
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Rated power consumption compressor and fan <sup>2</sup> 650 w
Rated power, booster heater 1500 w
Heating output, heat pump <sup>3</sup> approx. 1700 w
ENERGY STAR energy factor 3.05 3.39
DOE est. yearly energy usage / cost 1406 kWh 1289 kWh
DOE est. yearly energy cost \$169 \$155
First hour rating 50.2 gal / 190 l 75.1 gal / 190.4 l



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

# ISO 9001



Tested and certified by WQA against NSF/ ANSI 372 for lead free compliance.



\* 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.

- <sup>1</sup>T<sub>amb</sub> = 107.6° F / 42°C T<sub>water</sub> = 149° F / 65°C / 240 V
- <sup>2</sup> Test point to DIN 8497 at 59°F / 15°C air temperature, 70% rel. humidity and 113°F / 45°C water temperature.
- <sup>3</sup> 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)

#### Warranty Excerpt

Residential & commercial warranty: Stiebel Eltron warrants to the original owner that the Accelera® heat pump water heater will be free from defects in workmanship and materials for a period of ten (10) years from date of purchase for single family residential installations and one (1) year from date of purchase for all other installations. Should the part(s) prove to be defective under normal use during this period, Stiebel Eltron, Inc. will be responsible for replacement of the defective part(s) only. Stiebel Eltron, Inc. is not responsible for labor charges to remove and/or replace the defective part(s), or any incidential or consequential expenses. Should the owner wish to return the heat pump water heater for repair, the owner must first secure written authorization from Stiebel Eltron, Inc. the owner shall be required to show proof of purchase date, and to pay all transportation costs to return the defective part(s) or heat pump water heater for repair or replacement. Warranty is void if water heater has been installed or used improperly or if design has been altered in any way.