

Accelera® Technical Specifications

Technical Data



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



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



General Data

	Accelera® 220 E	Accelera® 300 E
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	60 ⁷ / ₈ " (1545 mm)	75 ¹ / ₄ " (1913 mm)
Diameter	27 ¹ / ₈ " (690 mm)	
Height of unit when tilted incl. packing	74 ¹ / ₈ " (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	87 psi (600 kPa)	
High pressure cutoff, 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	
Rated power consumption compressor and fan ²	650 W	
Rated power, booster heater	1500 W	
Heating output, heat pump ³	approx. 1700 W	
Energy factor	3.05	3.39
DOE est. yearly energy usage / cost	1040 kWh	1289 kWh
DOE est. yearly energy cost	\$169	\$155
First hour rating	50.3 gal (190.4 l)	74.2 gal (280.8 l)

* 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.

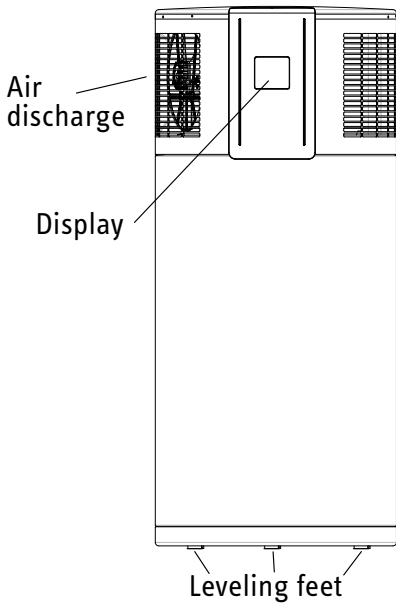
³ Test point at 59 °F (15 °C) air temperature, 70% rel. humidity, heating up water from 59 °F (15 °C) to 149 °F (65 °C), according to EN 255 T3, 240 V / 60 Hz

Scroll for technical drawings & charts. ↓

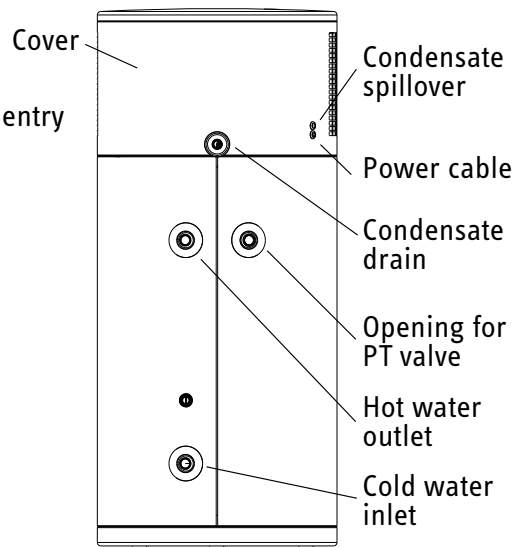
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Accelera® 220 E & 300 E

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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

