



TRANSOM *SIMCO₂E*

SIMCOE 350 STANDARD FEATURES

- R-744 CO₂ Refrigerant - ODP=0 GWP=1
- Domestic Hot Water Applications
- 278 MBH Nominal Capacity
- COP Efficiency - up to 4.0
- Sound - 78 dBA
- Maximum 171°F Leaving Water Temperature
- Minimum -15°F Outdoor Air Temperature
- Variable Capacity
- Single-pass Piping
- Reciprocating Compressor
- Onboard Domestic Hot Water ECM Pump
- Modular Configuration up to 12 Modules
- Double Wall Brazed Plate Heat Exchanger
- Small Compact Footprint
- CSA C22.2/UL 60335-2-40 Certification
- NSF/ANSI/CAN 372 Low Lead Certification



**Commercial Air Source
Heat Pump Water Heater**

Simcoe Model CWV350 Air Source Heat Pump Water Heater Specifications

Ratings and Capacities	
Capacity * (MBH/kW)	278/81.4
Performance * (COP)	4.00
Sound** (dBA)	78
Water Heater Recovery Rate* (GPH/LPH)	667/2563
Agency Approvals	
Appliance Safety Certification	CSA C22.2/UL 60335-2-40 (ETL)
Low Lead Certification	NSF/ANSI/CAN 372 (CSA)
California Approval	CEC Standard
Mechanical Data	
Refrigerant Type	R744 (CO2)
Number of Circuits	1
System Charge (lbs/kg)	25/11.34
Refrigerant Maximum Discharge Pressure (psi/bar)	1885/130
Refrigerant Maximum Suction Pressure (psi/bar)	1305/90
Fan Assembly (2)	Axial - EC Variable
Environmental Operating Data	
Usage	Outdoor
Minimum Operating Ambient Temperature (f/c)	-15/-26
Maximum Operating Ambient Temperature (f/c)	115/46
Maximum Storage Temperature (f/c)	140/60
Maximum Altitude (ft/m)	6560/2000
Hydronic Data	
Heat Exchanger Type	Double Wall Brazed Plate
Water Volume (gal/liter)	9.9/37.5
Minimum Water Side Design Pressure (psi/bar)	25/1.72
Maximum Water Side Design Pressure (psi/bar)	150/10.34
Minimum Entering Water Temperature (f/c)	40/4.44
Maximum Entering Water Temperature (f/c)	110/43.3
Minimum (LWT) Setpoint (f/c)	110/43.3
Maximum (LWT) Setpoint (f/c)	171/77.2
Minimum Flow Rate (gpm/lps)	2/.126
Maximum Flow Rate (gpm/lps)	10/.63
Heat Pump Waterside Pressure Drop @ Max Flow Rate (ft-hd/kPa)***	35/104.6
Max Available External Piping Pressure Drop (ft-hd/kPa)	8/23.9
Inlet Water Connection (mpt - in)	1
Outlet Water Connection (mpt - in)	1
Condensate Drain (fpt - in)	1
Electrical Data	
Voltage (v/ph/Hz)	208-230/460/575/3/60
MCA - No Backup Heater - 230/460/575 (A)	105/50/40
MCA - With Backup Heater - 230/460/575 (A)	126/92/74
MOP - No Backup Heater - 230/460/575 (A)	150/80/60
MOP - With Backup Heater - 230/460/575 (A)	175/110/90
SCCR (kA)	10
Dimensions	
Height (in/mm)	95.8/2433
Width (in/mm)	92.3/2344
Depth (in/mm)	34.3/871
Shipping Weight (lb/kg)	2575/1168
Operating Weight (lb/kg)	2450/1111
Clearance Service	
Front - Control Panel (in/mm)	40/1016
Rear - Waterside Piping Access (in/mm)	40/1016
Right (in/mm)	36/914
Left - Air Flow Coil Face (in/mm)	40/1016
Top, Overhead (in/mm)	108/2743
Between Adjacent Units with Coils Facing Each Other (in/mm)	60/1524

*AHRI 1300 Standard, DOE test point of 70°F inlet and 120°F outlet water temperature at 80.6°F test air temperature.

**Average of all sides - 1m from unit face, 1.5m from ground

***Includes Onboard Pump

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