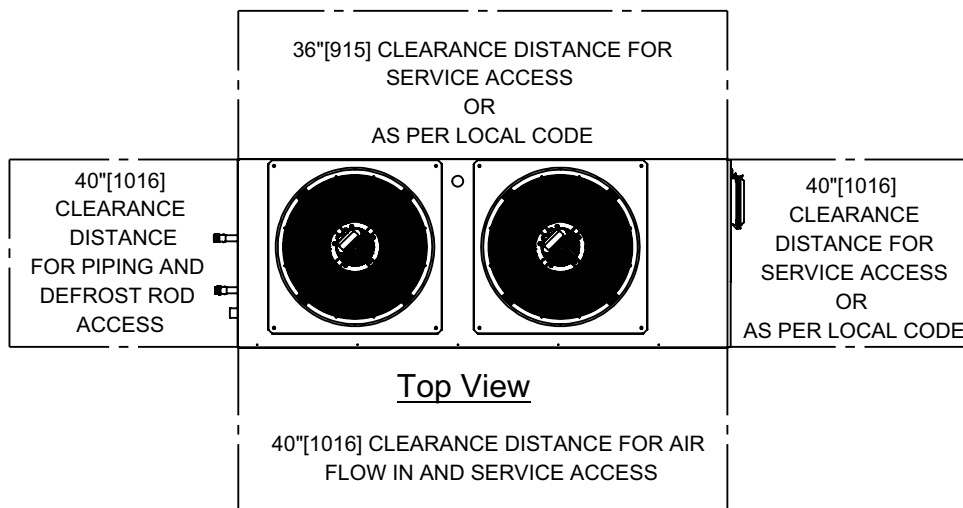
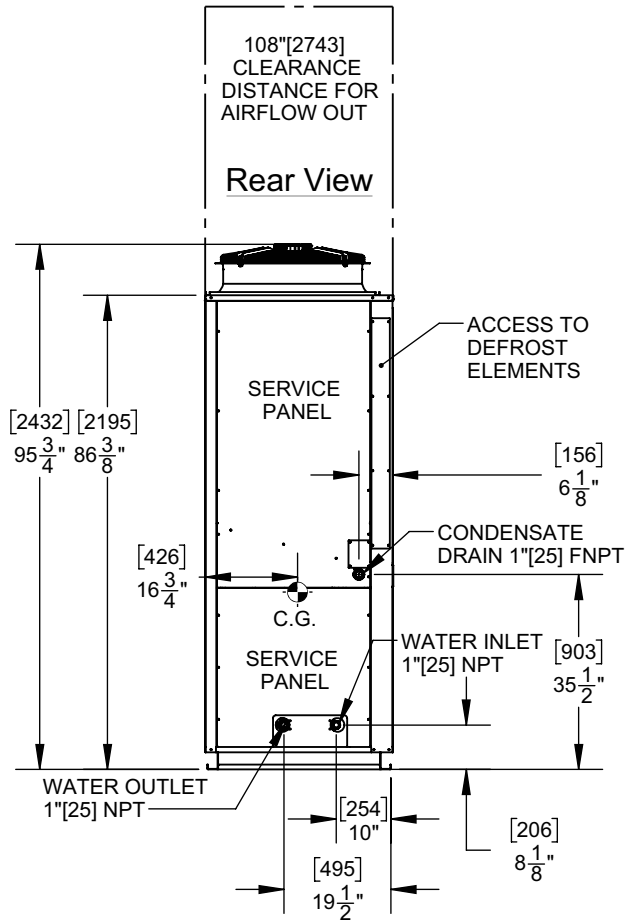
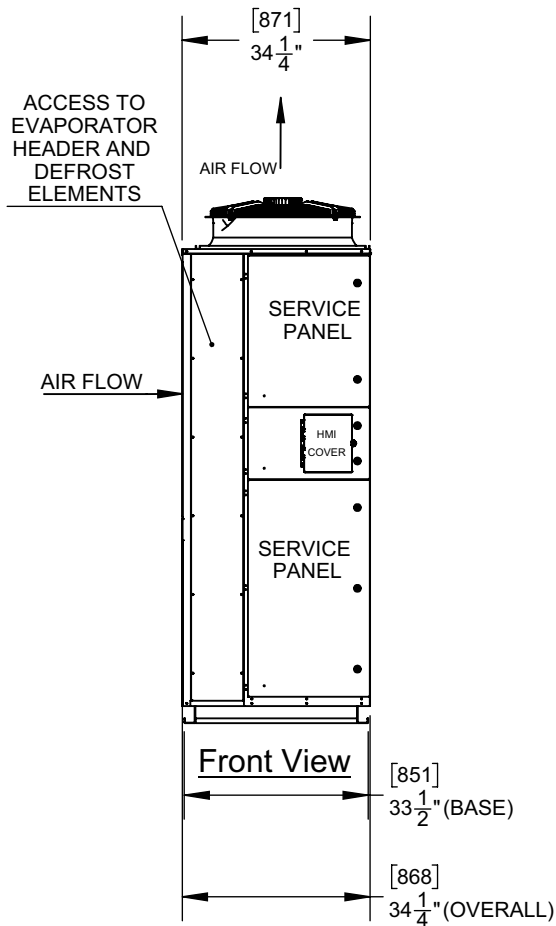


SIMCOE 350 HEAT PUMP

SD-SIM350-4

AIR SOURCE HEAT PUMP WATER HEATER
(see Installation and Operation Manual)

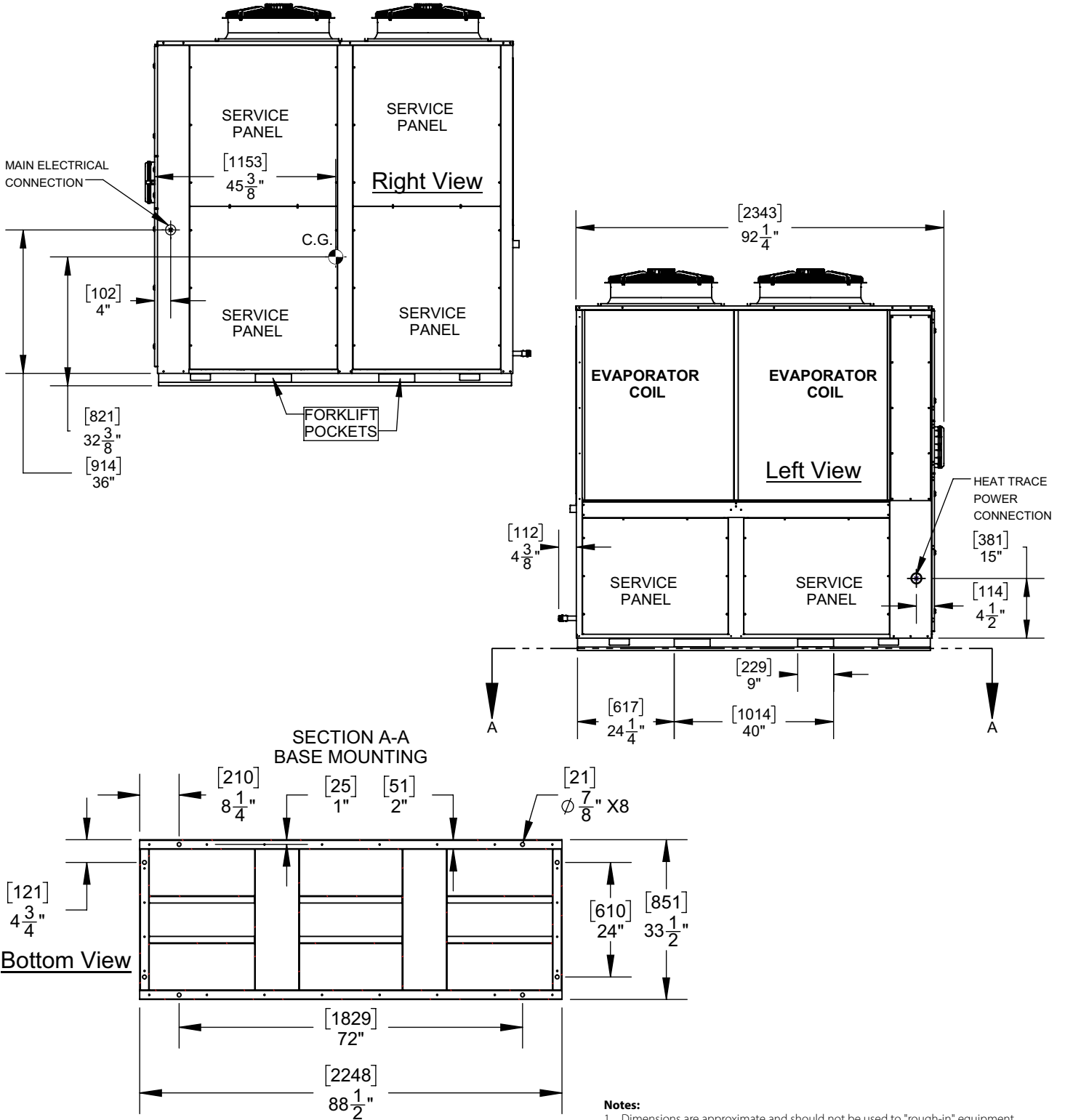


Notes:

1. Dimensions are approximate and should not be used to "rough-in" equipment.
2. Dimensions are subject to change without notice.
3. All dimensions are in inches (mm).
4. ● Symbol indicates center of gravity.

SIMCOE 350 HEAT PUMP

AIR SOURCE HEAT PUMP WATER HEATER
(see Installation and Operation Manual)



- Notes:**
1. Dimensions are approximate and should not be used to "rough-in" equipment.
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CERTIFIED RATINGS & CAPACITIES

Capacity* (BTU/kW)	277,665/81.4	Usage	Outdoor
Performance* (COP)	4	Appliance Safety Certificaton	UL 60335-2-40 (ETL)
Sound** (dBA)	78	Low Lead Certification	NSF/ANSI/CAN 372 (CSA)
Water Heater Recovery Rate (GPH/LPH)	667/2520	Water Volume (gal/liter)	1.7/6.4
SCCR (kA)	10	Water Volume (gal/liter) - w/Backup Heater	6.6/25
Shipping Weight (lb/kg)	2575/1168	Operating Weight (lb/kg)	2450/1111

ELECTRICAL RESISTANCE HEAT CAPACITIES

Operating Mode (V)	208/3/60	230/3/60	460V/3/60	575V/3/60
Trim Operation (KBTU/kW)	20 / 9.1	23/6.75	92.1/27	92.1/27
Backup Operation-Includes Trim (KBTU/kW)	37.5/11	46.1/13.5	184.2/54	184.2/54

MECHANICAL DATA

Refrigerant Type	R744 (CO2)
System Charge (lbs/kg)	25/11.34
Refrigerant Max Discharge Pressure (psi/bar)	1885/130
Refrigerant Max Suction Pressure (psi/bar)	1305/90

ENVIRONMENTAL DATA

Maximum Altitude (ft/m)	6561/2000
Minimum Operating Ambient Temperature (f/c)	-15/-26
Maximum Operating Ambient Temperature (f/c)	115/46

HYDRONIC DATA

Minimum Water Side Design Pressure (psi/bar)	25/1.72	Minimum Flow Rate (gpm/lps)	2/126
Maximum Water Side Design Pressure (psi/bar)	150/10.34	Maximum Flow Rate (gpm/lps)	10/63
Minimum Entering Water Temperature (f/c)	40/4.44	Max Available External Piping Pressure Drop (ft-hd/kPa)	8/23.9
Maximum Entering Water Temperature (f/c)	110/43.3	Inlet Water Connection (mpt - in)	1
Minimum (LWT) Setpoint (f/c)	110/43.3	Outlet Water Connection (mpt - in)	1
Maximum (LWT) Setpoint (f/c)	171/77.2	Condensate Drain (fpt - in)	1

HEAT PUMP TRIM AND CONTROLS

Waterside Components	Refrigerant Side Components
Temperature Sensors	Semi-Hermetic Reciprocating Compressor (Dorin)
Double-Wall Gas Cooler	Safety PRV
ECM Pump (Xylem)	High Pressure Switch
T&P Relief Valve (Watts)	Filter Dryer
Auto/Manual-Reset High Limit (JUMO)	High Pressure Valve
Backup-Trim Heater (Option)	Standby Expansion Tank
Flow Switch (SIKA)	EC Evaporator Fan

ELECTRICAL DATA

Main Power Supply (3ph) - No Backup Heater					
MCA (A)			MOP (A)		
208-230/3/60	460V/3/60	575V/3/60	208-230/3/60	460V/3/60	460V/3/60
105	50	40	150	80	60
Main Power Supply (3ph) - With Backup Heater					
MCA (A)			MOP (A)		
208-230/3/60	460V/3/60	575V/3/60	208-230/3/60	460V/3/60	575V/3/60
126	92	74	175	110	90
Heat Trace Power Supply (208-230/1/60) - All Models					
MCA (A) - 6			MOP (A) - 15		

*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

REP FIRM	_____
SUBMITTED BY	_____
JOB NAME	_____
ARCHITECT	_____
ENGINEER	_____
CONTRACTOR	_____
DATE	_____

SIMCOE 350 HEAT PUMP



Barrie, ON L4N 6H4
Canada
705-717-8010