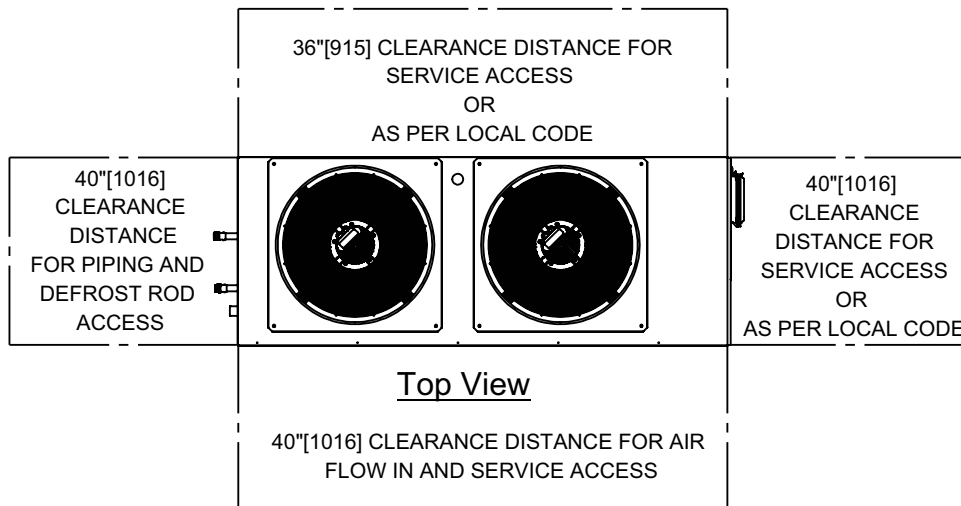
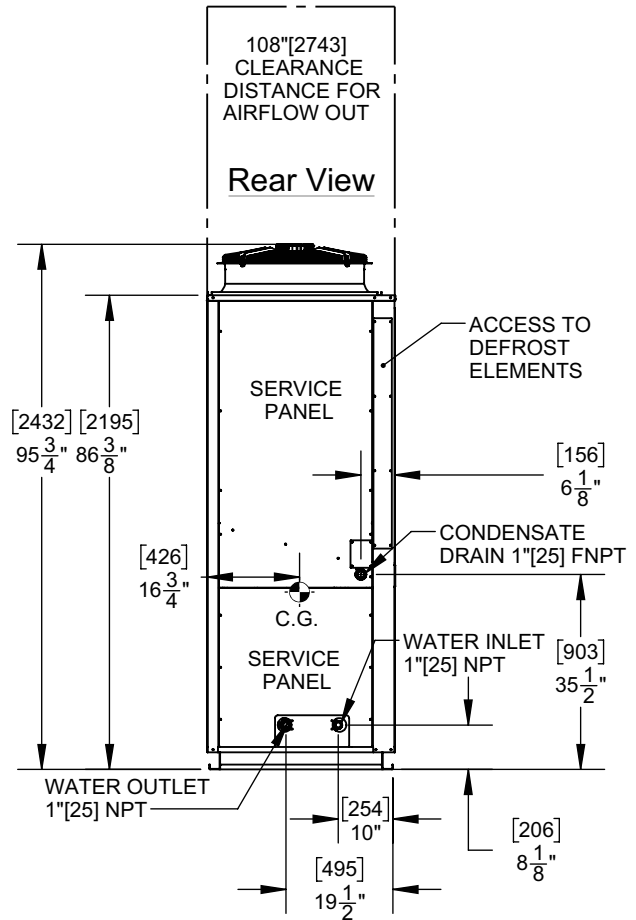
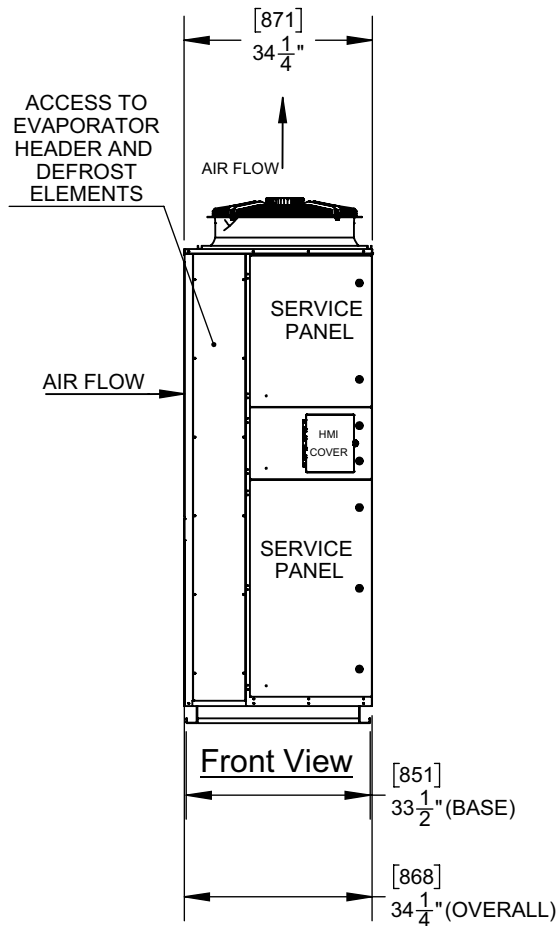


SIMCOE 350 HEAT PUMP

SD-SIM350-5

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

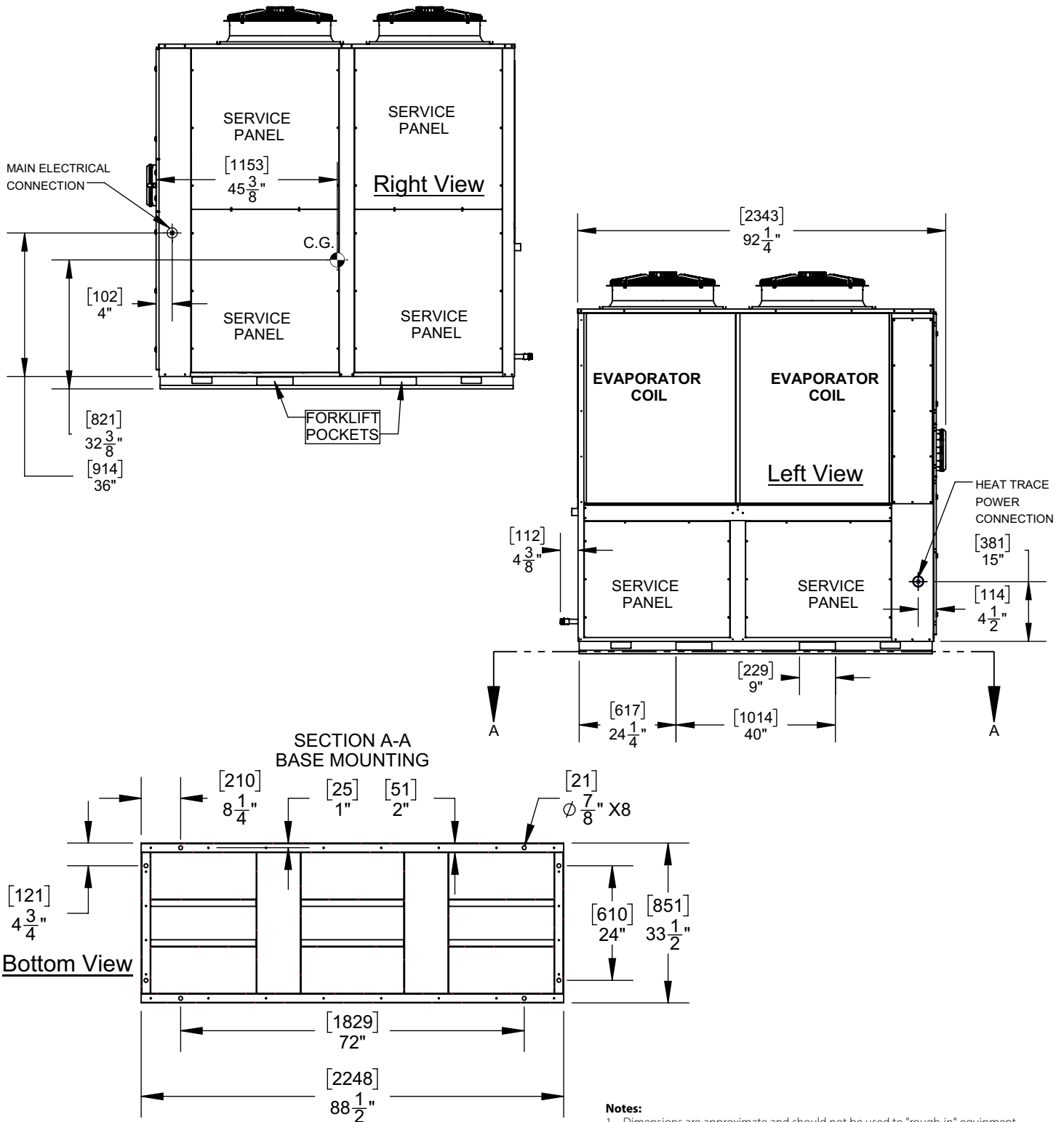


Notes:

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.
2. Dimensions are subject to change without notice.
3. All dimensions are in inches (mm).
4. ● Symbol indicates center of gravity.

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)	18.8/5.5	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)	20/9.1
Refrigerant Max Discharge Pressure (psi/bar)	1885/130
Refrigerant Max Suction Pressure (psi/bar)	1305/90

ENVIRONMENTAL DATA

Maximum Altitude (ft/m)	6560/2000
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)					
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
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