



Job Name: Love Life Cafe Wynwood
Prepared For:
Unit Tag: HPU-1
Quantity: 1

Axiom Standard Efficiency Water Source Heat Pump (GEHV)

Unit Overview

WSHP Model	GEVE3004
Unit Configuration	Vertical
Compressor Stages	2-stage
Nominal Capacity	25 ton
Refrigerant Type	R-410a
Refrigerant Circuit	Heating & cooling
Heat Exchanger	Cu Nickel
Drain pan	Stainless steel drain pan
Return-Air Arrangement	Front
Supply-Air Arrangement	Top



Airflow and Fluid Information

Airflow Properties		Fluid Properties	
Design Airflow	8000 cfm	Freeze Protection	35 F (For Water loop)
Filter Type	2" MERV 13	Fluid Type	Water
		Fluid Freeze Point	32.0 F
		Fluid Flow Rate	69.0 gpm
		Fluid PD	12.1 ft H2O

Electrical, Motor, and Fan Information

Electrical Information		Efficiency Information @ AHRI	
Unit Voltage	460/60/3	Cooling Efficiency Ratio	13.90 EER
External Static Pressure (ESP)	0.75 in H2O	Cooling Power	23.15 kW
Total External SP	1.02 in H2O	Heating Efficiency Ratio	4.30 COP (kW/kW)
Total FLA	43.70 A	Heating Power	25.62 kW
Min Circuit Ampacity (MCA)	48.35 A	Efficiency Information @ Design	
Max Overload Protection (MOP)	60 A	Cooling Efficiency Ratio	12.30 EER
Motor & Fan		Heating Efficiency Ratio	4.25 COP (kW/kW)
Motor Type	Drive package A		
Supply Motor HP	5.00 hp		

Coil Performance

	Main Cooling	Main Heating
Gross Capacity	299.2 MBh	357.2 MBh
Gross Sensible Capacity	204.3 MBh	
Net Capacity	284.6 MBh	371.7 MBh
Net Sensible Capacity	189.8 MBh	
Heat of Rejection/Absorption	363.6 MBh	284.2 MBh
Entering Fluid Temperature	87.0 F	68.0 F
Leaving Fluid Temperature	97.5 F	59.8 F
Entering Dry Bulb (EDB)	75.0 F	68.0 F
Leaving Dry Bulb (LDB)	53.3 F	110.4 F
Entering Wet Bulb (EWB)	63.0 F	
Leaving Wet Bulb (LWB)	50.4 F	

Electric Heat

Electric Heat Option	External supplemental elec heat
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Controls

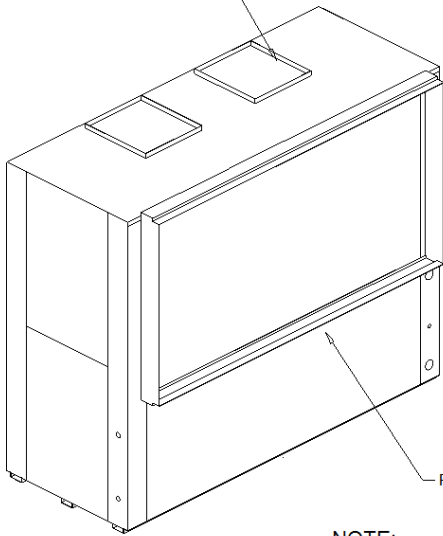
Control Types	Deluxe 24v controls
Unit Thermostats	Wall Mount, Programmable TouchScr 3H/2C
Fault Sensors	Condensate overflow sensor

Information for LEED Projects

ASHRAE 90.1/CSA compliance	Yes
Refrigerant Charge	16.3 lb
Rated Gross Cooling Capacity (AHRI)	26.95 tons
Cooling Efficiency Ratio @ AHRI	13.90 EER
Heating Efficiency Ratio @ AHRI	4.30 COP (kW/kW)
Compressor Power	18.89 kW
Actual Motor Power kW	4.44 bhp



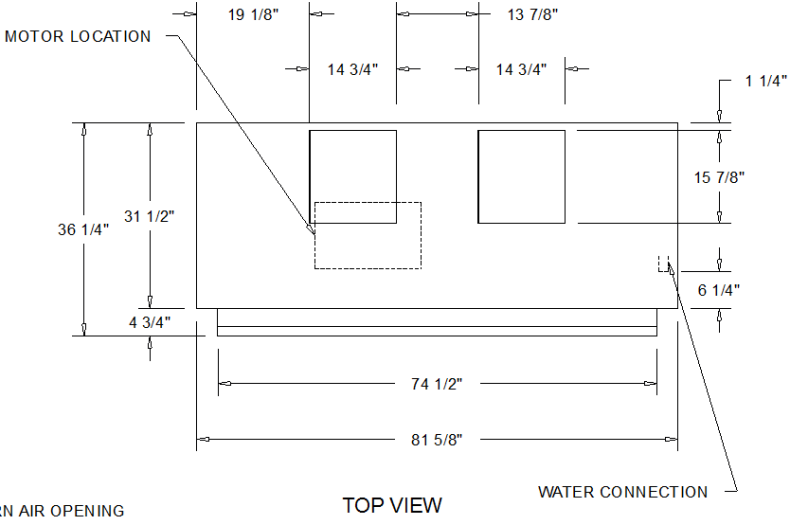
SUPPLY AIR OPENING



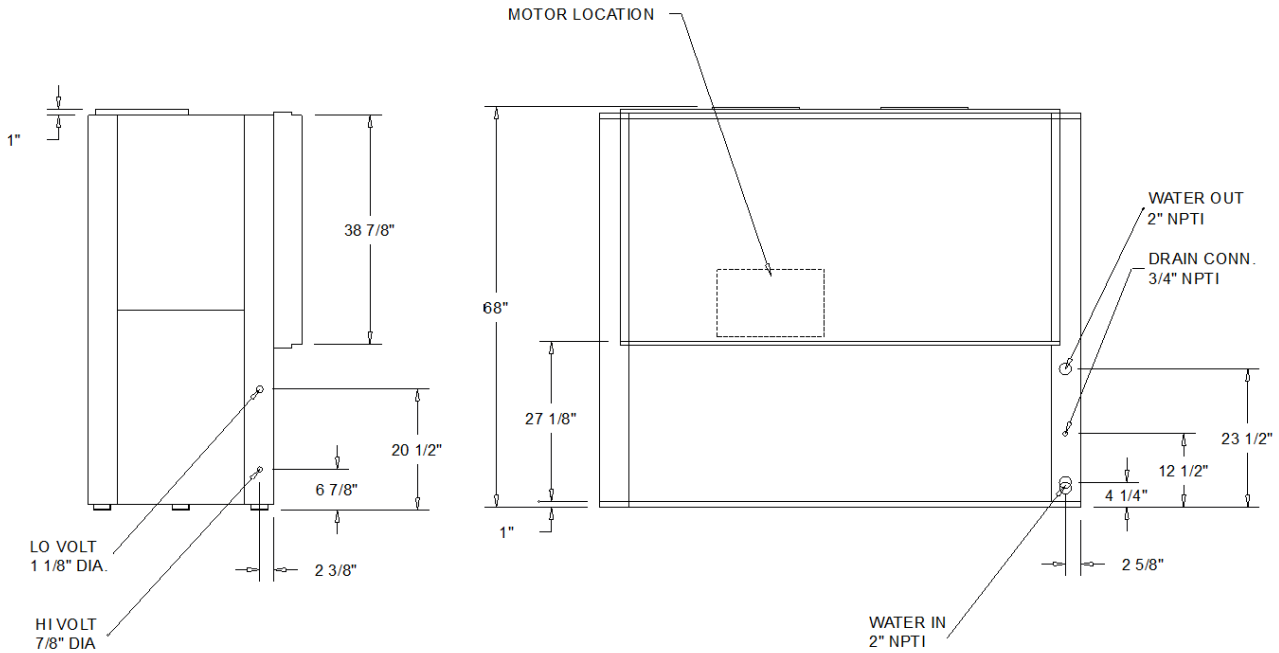
RETURN AIR OPENING

CLEARANCE:
24" ON LEFT/RIGHT SIDE OF UNIT
18" ON BACK OF UNIT
36" ON FRONT OF UNIT
3" ON TOP OF UNIT

FILTER	QTY
20"x25"	6



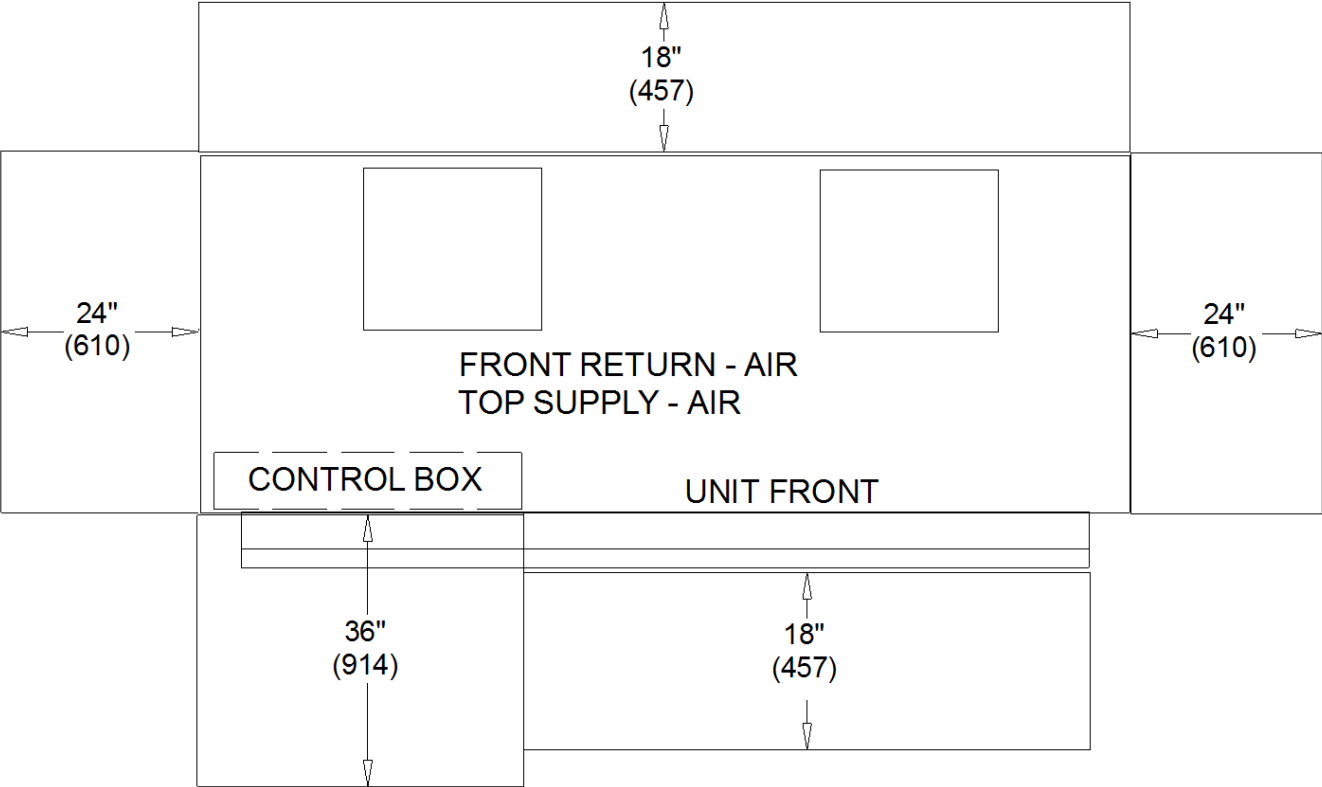
NOTE:
THIS UNIT MUST BE NON-DUCTED
FREE RETURN AIR



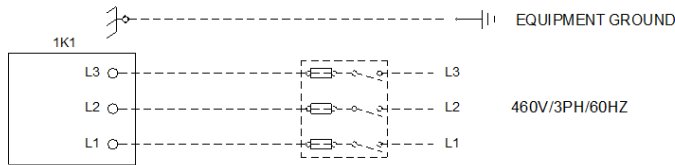
WEIGHT	
WORKING	1640.0 lb
SHIPPING	1665.0 lb



CLEARANCE DIMENSIONS
GEV 20 TO 25 TONS



UNIT POWER WIRING
3 PHASE POWER SUPPLY



FIELD WIRING BELOW IS FOR THERMOSTAT CONNECTIONS

1TB2	
1	24VAC (R)
2	FAN (G)
3	COMPRESSOR 1 (Y 1) & WATER ISOLATION VALVE
4	COMPRESSOR 2 (Y 2)
5	REVERSING VALVE (O) & HUMIDISTAT
6	24VAC COMMON (C) & WATER ISOLATION VALVE
7	COMPRESSOR DISABLE
8	COMPRESSOR DISABLE
9	ALARM
10	ALARM
11	ELECTRIC HEAT
12	ELECTRIC HEAT
13	HUMIDISTAT
14	UNUSED
15	3rd STAGE HEAT (W1)
16	UNUSED

- NOTES:
- DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY OTHERS. SOLID LINES INDICATE WIRING BY THE TRANE CO.
 - ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), STATE, AND LOCAL REQUIREMENTS.

 WARNING HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND FOLLOW LOCK OUT AND TAG PROCEDURES BEFORE SERVICING. INSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED STORED VOLTAGE. UNITS WITH VARIABLE SPEED DRIVE, REFER TO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE. FAILURE TO DO THE ABOVE BEFORE SERVICING COULD RESULT IN DEATH OR SERIOUS INJURY.	 AVERTISSEMENT TENSION DANGEREUSE! COUPER TOUTES LES TENSIONS ET OUVRIR LES SECTIONNEURS À DISTANCE, PUIS SUIVRE LES PROCÉDURES DE VERROUILLAGE ET DES ÉTIQUETTES AVANT TOUTE INTERVENTION. VÉRIFIER QUE TOUTS LES CONDENSATEURS DES MOTEURS SONT DÉCHARGÉS. DANS LE CAS D'UNITÉS COMPORTANT DES ENTRAÎNEMENTS À VITESSE VARIABLE, SE REPORTER AUX INSTRUCTIONS DE L'ENTRAÎNEMENT POUR DÉCHARGER LES CONDENSATEURS. NE PAS RESPECTER CES MESURES DE PRÉCAUTION PEUT ENTRAÎNER DES BLESSURES GRAVES POUVANT ÊTRE MORTELLES.	 ADVERTENCIA ¡VOLTAJE PELIGROSO! DESCONECTE TODA LA ENERGÍA ELÉCTRICA INCLUSO LAS DESCONEXIONES REMOTAS Y SIGA LOS PROCEDIMIENTOS DE CIERRE Y ETIQUETADO ANTES DE PROCEDER AL SERVICIO. ASEGÚRESE DE QUE TODOS LOS CAPACITORES DEL MOTOR HAYAN DESCARGADO EL VOLTAJE ALMACENADO. PARA LAS UNIDADES CON EJE DE DIRECCIÓN DE VELOCIDAD VARIABLE, CONSULTE LAS INSTRUCCIONES PARA LA DESCARGA DEL CONDENSADOR. EL NO REALIZAR LO ANTERIORMENTE INDICADO, PODRÍA OCASIONAR LA MUERTE O SERIAS LESIONES PERSONALES.
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Job Name: Love Life Cafe Wynwood
Prepared For:
Unit Tag: HPU-2
Quantity: 1

Axiom Standard Efficiency Water Source Heat Pump (GEHV)

Unit Overview	
WSHP Model	GEVE2404
Unit Configuration	Vertical
Compressor Stages	2-stage
Nominal Capacity	20 ton
Refrigerant Type	R-410a
Refrigerant Circuit	Heating & cooling
Heat Exchanger	Cu Nickel
Drain pan	Stainless steel drain pan
Return-Air Arrangement	Front
Supply-Air Arrangement	Top



Airflow and Fluid Information			
Airflow Properties		Fluid Properties	
Design Airflow	6400 cfm	Freeze Protection	35 F (For Water loop)
Filter Type	2" MERV 13	Fluid Type	Water
		Fluid Freeze Point	32.0 F
		Fluid Flow Rate	54.0 gpm
		Fluid PD	12.5 ft H2O

Electrical, Motor, and Fan Information			
Electrical Information		Efficiency Information @ AHRI	
Unit Voltage	460/60/3	Cooling Efficiency Ratio	15.10 EER
External Static Pressure (ESP)	0.75 in H2O	Cooling Power	18.96 kW
Total External SP	0.95 in H2O	Heating Efficiency Ratio	4.60 COP (kW/kW)
Total FLA	39.90 A	Heating Power	19.65 kW
Min Circuit Ampacity (MCA)	44.08 A	Efficiency Information @ Design	
Max Overload Protection (MOP)	60 A	Cooling Efficiency Ratio	11.94 EER
Motor & Fan		Heating Efficiency Ratio	4.29 COP (kW/kW)
Motor Type	Drive package B		
Supply Motor HP	5.00 hp		

Coil Performance		
	Main Cooling	Main Heating
Gross Capacity	241.0 MBh	273.3 MBh
Gross Sensible Capacity	168.9 MBh	
Net Capacity	226.4 MBh	287.9 MBh
Net Sensible Capacity	154.4 MBh	
Heat of Rejection/Absorption	291.2 MBh	220.8 MBh
Entering Fluid Temperature	87.0 F	68.0 F
Leaving Fluid Temperature	97.8 F	59.8 F
Entering Dry Bulb (EDB)	75.0 F	68.0 F
Leaving Dry Bulb (LDB)	53.0 F	109.1 F
Entering Wet Bulb (EWB)	63.0 F	
Leaving Wet Bulb (LWB)	50.5 F	

Electric Heat	
Electric Heat Option	External supplemental elec heat



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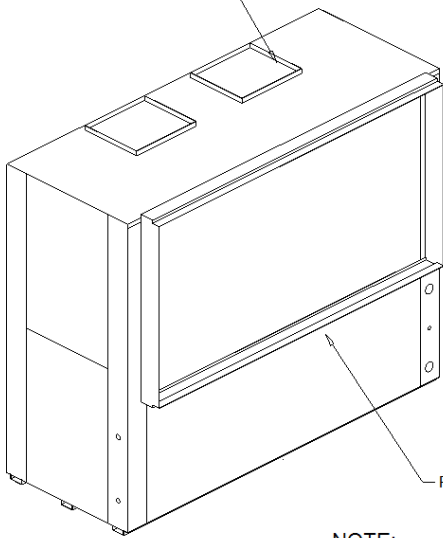
Controls

Control Types	Deluxe 24v controls
Unit Thermostats	Wall Mount, Programmable TouchScr 3H/2C
Fault Sensors	Condensate overflow sensor

Information for LEED Projects

ASHRAE 90.1/CSA compliance	Yes
Refrigerant Charge	17.8 lb
Rated Gross Cooling Capacity (AHRI)	21.91 tons
Cooling Efficiency Ratio @ AHRI	15.10 EER
Heating Efficiency Ratio @ AHRI	4.60 COP (kW/kW)
Compressor Power	14.70 kW
Actual Motor Power kW	3.23 bhp

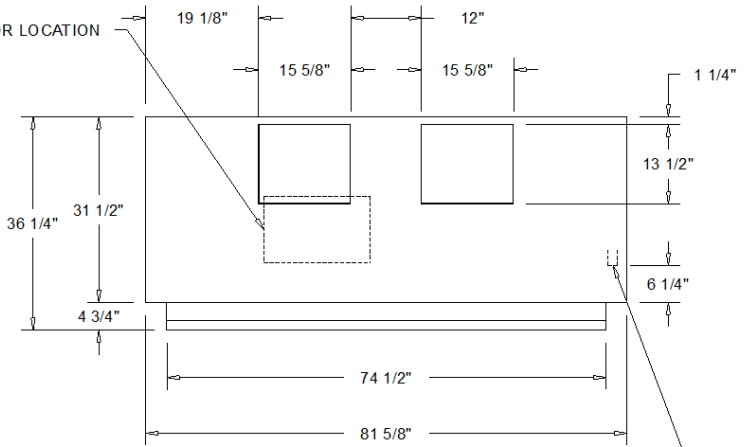
SUPPLY AIR OPENING



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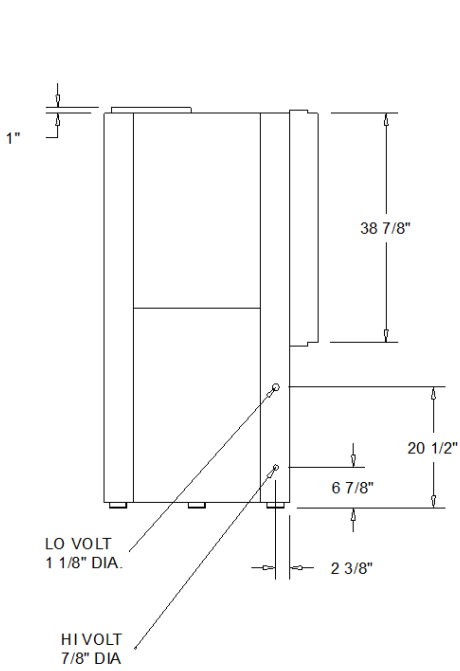
MOTOR LOCATION



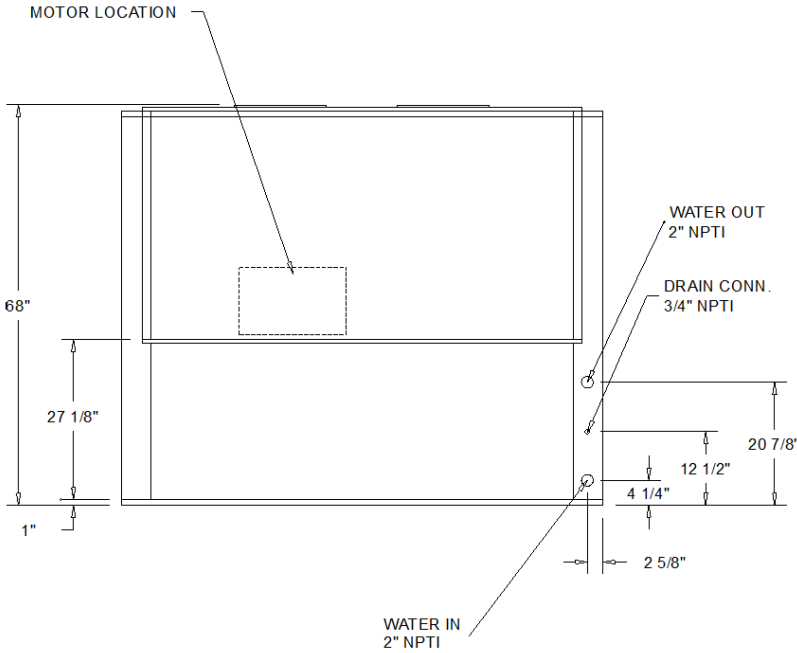
TOP VIEW

WATER CONNECTION

NOTE:
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 FREE RETURN AIR



LEFT VIEW

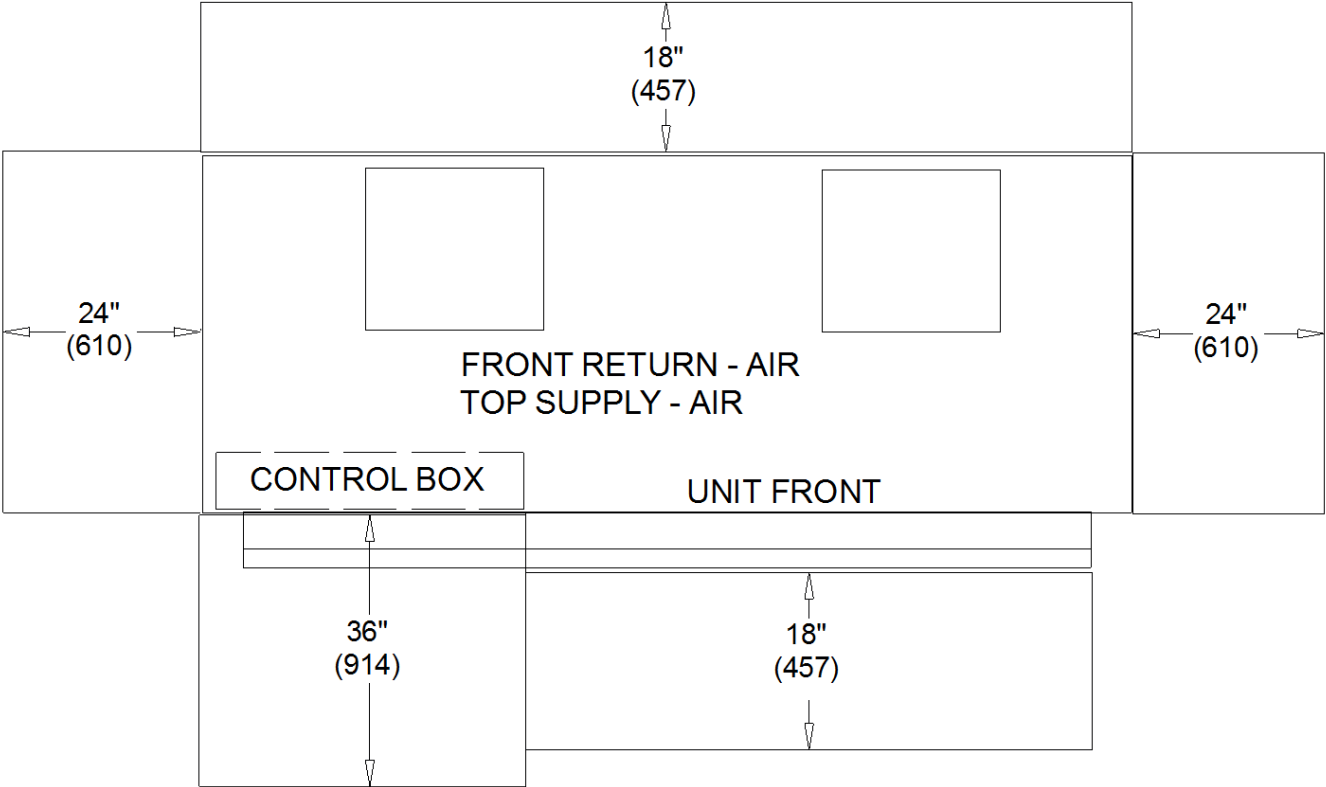


FRONT VIEW

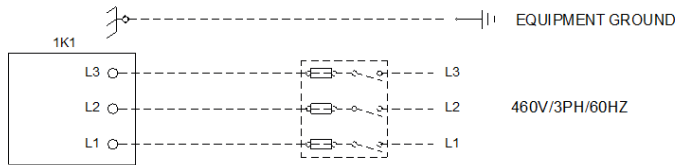
WEIGHT	
WORKING	1609.0 lb
SHIPPING	1644.0 lb



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