



## Unit Overview - SXHLC9040\*97CDDDD001A0C00H00A004T0M8A\*0

Unit Function	Tonnage	EER @ AHRI	IEER @ AHRI	Net Capacity @ AHRI	System Power	Elevation
Cooling Only / Extended Casing	90 Ton Air Cooled Minimum 10 EER	10.5 EER	15.7 EER Minimum 12.9 IEER	1066.14 MBh	125.37 kW	0.00 ft

Dimensions				Installed Weight
Height	Width	Overall Length	Footprint Length	
81.375 in	143.625 in	423.750 in	0.000 in	14965.7 lb

## Unit Features

Panel	Access Doors
Agency Approval	cULus Approval



## Unit Electrical

Overview		Compressor	
Voltage/Phase/Frequency	460/60/3	Compressor 1 RLA	33.70 A
SCCR Rating	5000.00 A	Compressor 2 RLA	33.70 A
Disconnect Switch	Unit Mounted Disconnect Switch	Compressor 3 RLA	33.70 A
Condenser		Compressor 4 RLA	33.70 A
Condenser Fan 1 FLA	18.00 A	Circuit 1	
Supply/Relief		MCA	250.13 A
Supply Fan 1 FLA	24.70 A	MOP	300.00 A
Supply Fan 2 FLA	24.70 A	DSS	237.00 A
Relief Fan 1 FLA	30.50 A		
Other FLA	9.00 A		

Note: DSS value reflects factory installed Disconnect Switch Size

## Condensing Section

Compressor Count	4.00 Number	Refrigerant Charge Circuit 1	77.5 lb
Compressor Stages	1.00 Number	Refrigerant Charge Circuit 2	78.0 lb
Condenser Coil Face Area	152.00 sq ft	Design Ambient Temperature	95.00 F
Condenser Coil Rows	1.00 Number	Condenser Fan Count	10.00 Number
		Condenser Fan VFD Count	0.00 Number
		Condenser Fan Size	26.000 in
		Condenser Fan HP (each)	1.000 hp

## Heating Section

Function	Cooling Only / Extended Casing
Heat Type & Capacity	No heat



## Cooling Coil (DX) Section

Type	Cu-Al	Cooling Performance	
Rows	6.00 Number	Leaving Coil Dry Bulb	56.43 F
Face Area	59.30 sq ft	Leaving Coil Wet Bulb	56.36 F
Inputs		Gross Total Capacity	1174.74 MBh
		Gross Sensible Capacity	911.77 MBh
Design Airflow	35000 cfm	Gross Latent Capacity	262.96 MBh
Entering Dry Bulb	80.00 F	Net Total Capacity	1066.14 MBh
Entering Wet Bulb	67.00 F	Net Sensible Capacity	803.18 MBh
		Net Sensible Heat Ratio	75.34 %

## Supply Fan

Supply Fan	40HP (2-20HP Supply Mtrs)	Performance	
Supply Fan Count	2.00 Number	Design Airflow	35000 cfm
Supply Motor Count	2.00 Number	Supply Duct Static Pressure	2.000 in H2O
VFD Count	2.00 Number	Total Static Pressure	4.356 in H2O
Shaft Grounding Ring	Standard	Total Supply BHP	38.84 bhp
		Supply Fan Motor Heat	41.81 MBh

## Filter Sections

Pre-Evap Coil	
Face Area (sq ft.)	100.00 sq ft
Face Velocity (ft/min)	350 ft/min

## Outside Air & Relief Sections

Outside Air Section		Relief Section	
Outside Air Option	0-100% Economizer	Fan Motor	100% Relief - 25 HP w/Statitrac
Economizer Options	Standard Damper	Airflow	32000 cfm
Ambient Control	Standard Ambient	Relief/Return Break Horsepower	Exhaust_BHP
Fresh Air Control	Economizer Control w Comparativ Enthalpy	Relief/Return Fan RPM	relief_fan_rpm
		Relief/Return	Exhaust
		Relief/Return Fan Drive RPM	Exhaust_RPM
		Return Duct Static Pressure	1.000 in H2O
		Operating Speed	676 rpm

## Total Static Pressure

Supply Duct	2.000 in H2O
Return Duct	1.000 in H2O
Total Static Pressure	4.356 in H2O

## Acoustics

	63	125	250	500	1K	2K	4K	8K
Outdoor Noise	91 dB	93 dB	88 dB	86 dB	82 dB	80 dB	81 dB	75 dB

## Weights

Installed Point Load X1 Location	4.000 in
Installed Point Load X2 Location	120.000 in
Installed Point Load X3 Location	215.000 in
Installed Point Load X4 Location	309.000 in
Installed Point Load X5 Location	396.000 in



Controls

Unit Tag	RTU-1, RTU-2
Address	0.00 Number
Baud Rate	76800
BAS/Net Module	Trane BACnet Communication Module

Accessories/Misc.

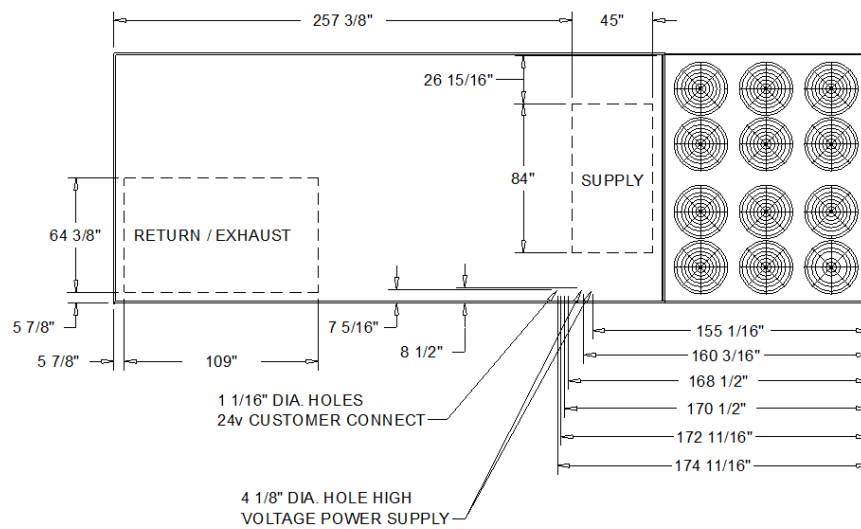
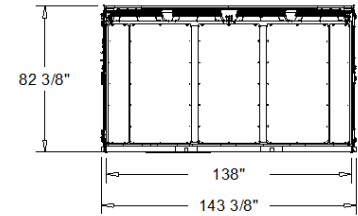
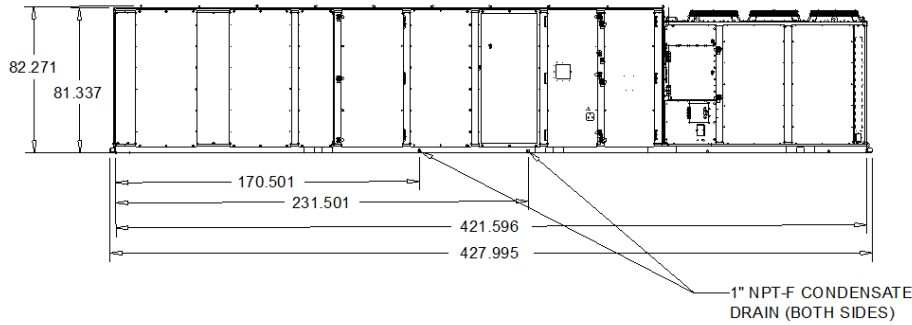
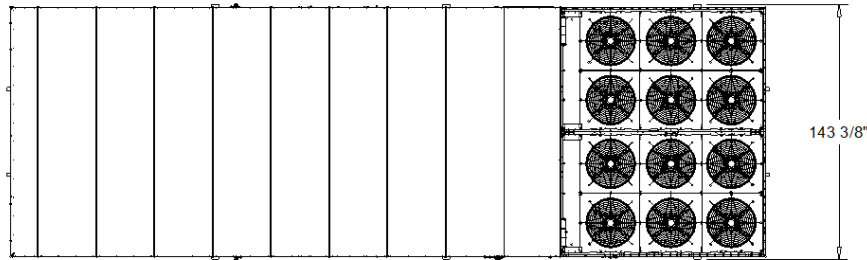
Start Up	Start - Up
Ship Cycle	Standard Ship Cycle

AHRI Certification

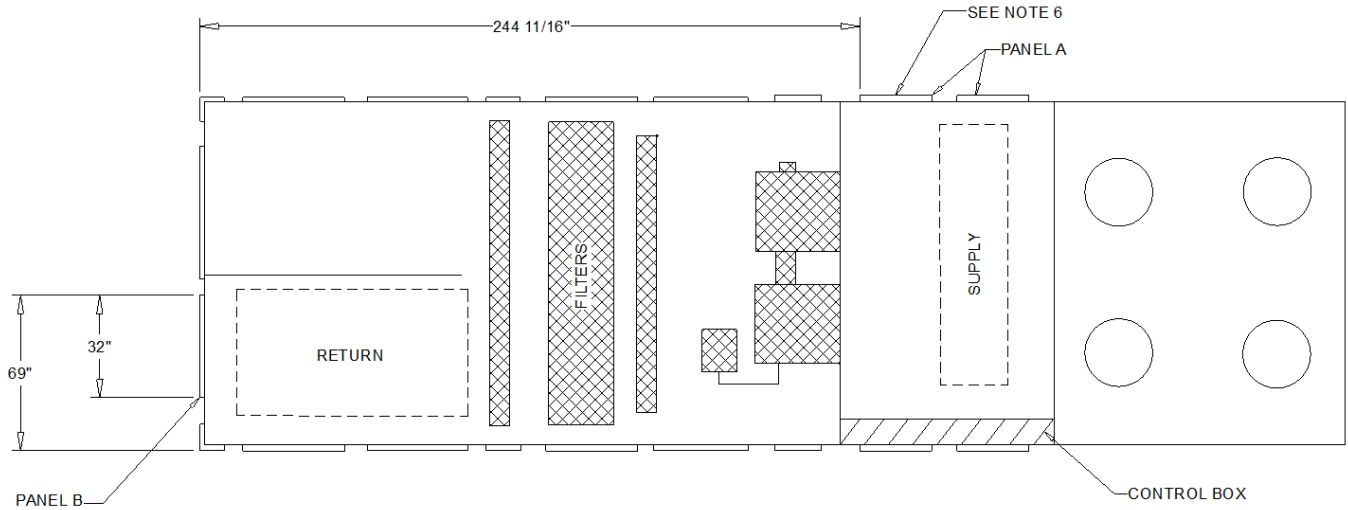
Packaged Rooftop units cooling, heating capacities and efficiencies are rated within the scope of the Air-Conditioning, Heating & Refrigeration Institute (AHRI) Certification Program and display the AHRI Certified® mark as a visual confirmation of conformance to the certification sections of AHRI Standard 340-360 (I-P) and ANSI Z21.47 and 10 CFR Part 431 pertaining to Commercial Warm Air Furnaces. Certified units may be found in the AHRI directory at [www.ahridirectory.org](http://www.ahridirectory.org)



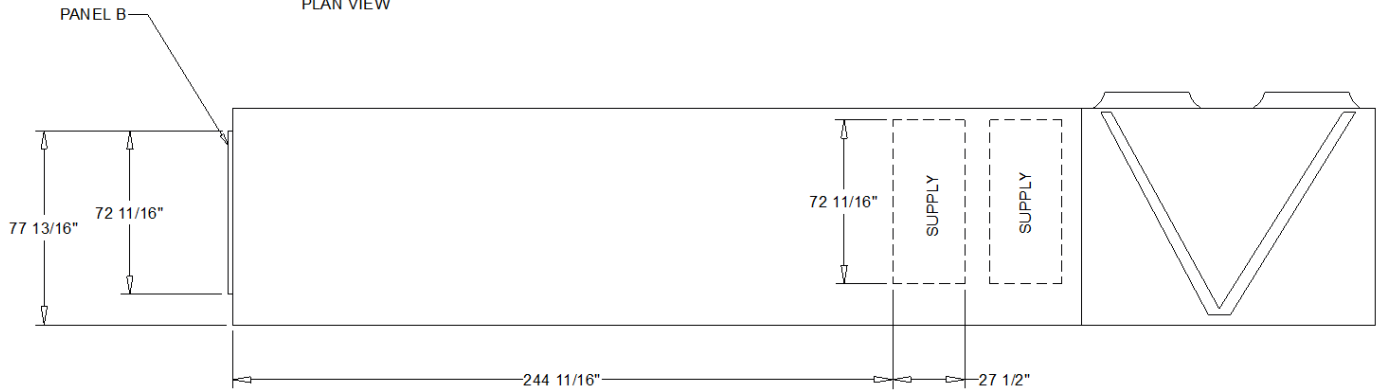
NOTES:  
1. VERIFY WEIGHT, CONNECTION, AND ALL DIMENSION WITH  
INSTALLER DOCUMENTS BEFORE INSTALLATION



90 - 130 TON SELF- CONTAINED  
PLAN VIEW DRAWING



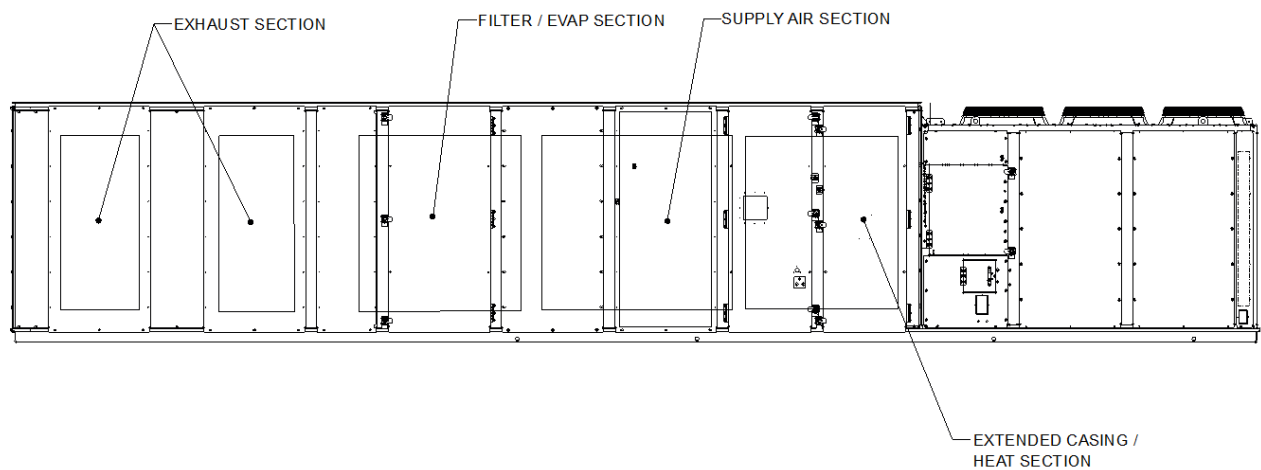
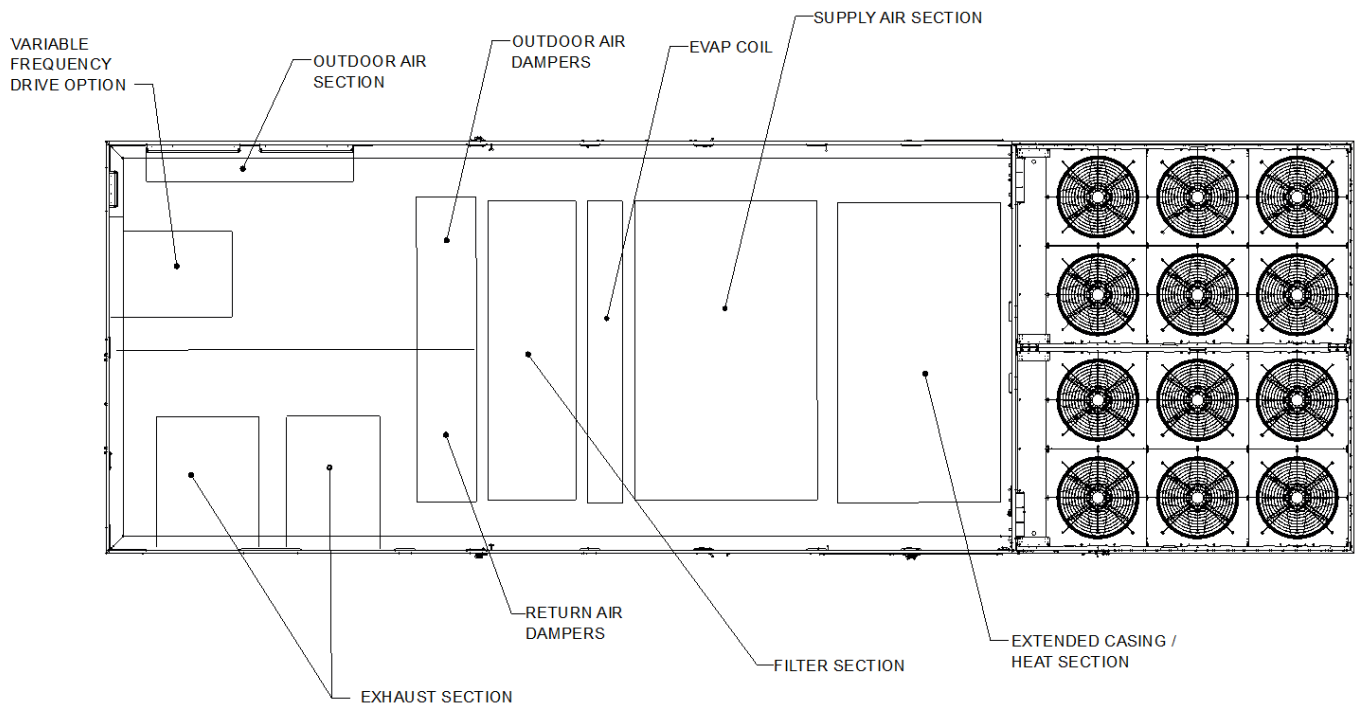
### SXHK / SLHK / SSHK HORIZONTAL SUPPLY AND RETURN PLAN VIEW



### HORIZONTAL SUPPLY AND RETURN SIDE VIEW

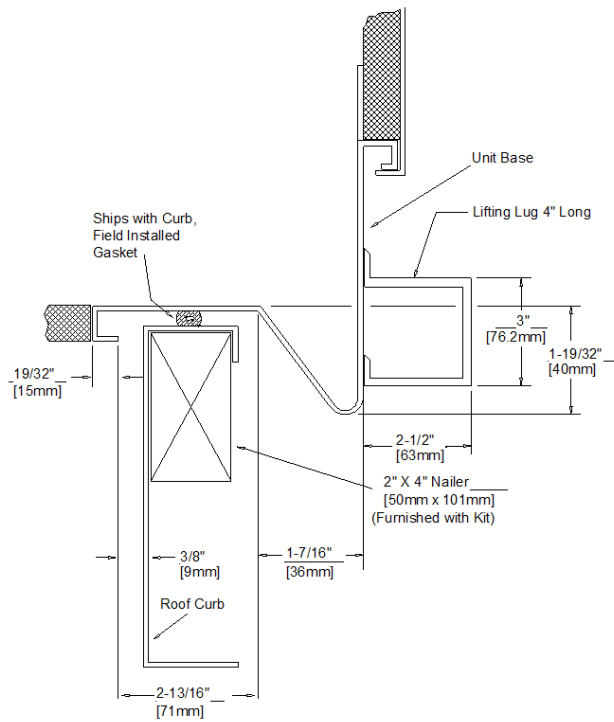
#### NOTES:

1. SXHK UNITS HAVE TWO PANEL A'S THAT CAN BE REMOVED. ONCE UNIT IS INSTALLED, THE PANEL(S) AND THE 6 1/2" VERTICAL SUPPORT CHANNEL IN BETWEEN CAN BE REMOVED.
2. ADD AN EXTRA 3/16" PRESSURE DROP TO THE SUPPLY EXTERNAL STATIC TO ACCOUNT FOR THE EXTRA TURN THE AIR IS MAKING.
3. THE OPENINGS ALL HAVE A 1 1/4" LIP AROUND THE PERIMETER TO FACILITATE DUCTWORK ATTACHMENT.
4. IF EXHAUST/RETURN FANS ARE BEING USED, PROVISIONS SHOULD BE MADE FOR ACCESS TO THE EXHAUST COMPONENTS, SINCE THE ACCESS DOOR IS NOW BEING USED AS A RETURN.
5. USE THE DIMENSIONS PROVIDED AND THE SUPPLY CFM TO CALCULATE THE VELOCITY (FT/MIN) THROUGH THE OPENINGS TO BE SURE THEY ARE ACCEPTABLE.
6. CANNOT REMOVE THIS PANEL FOR HORIZONTAL DISCHARGE ON SLHK/SSHK UNITS
7. TOTAL AREA (H X W) OF PANEL A 1999 in<sup>2</sup>.
8. TOTAL AREA (H X W) OF PANEL B 2508 in<sup>2</sup>.

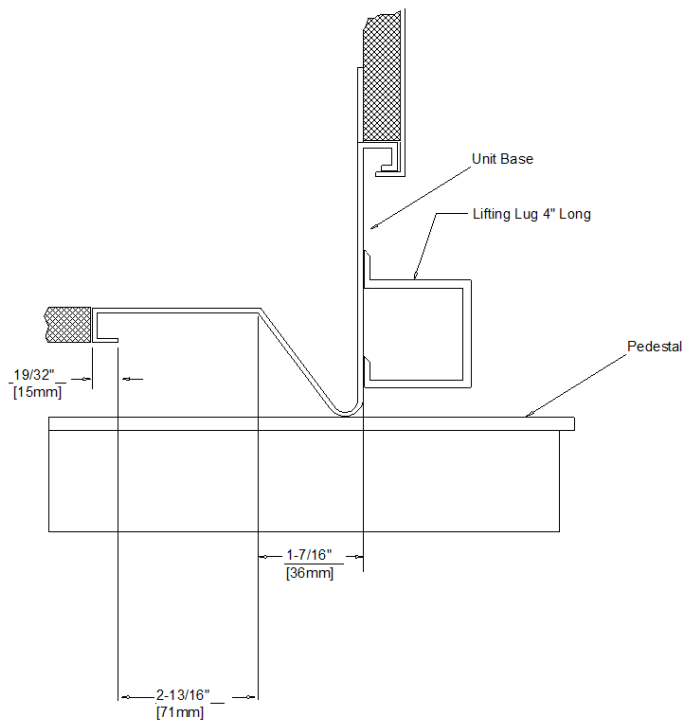


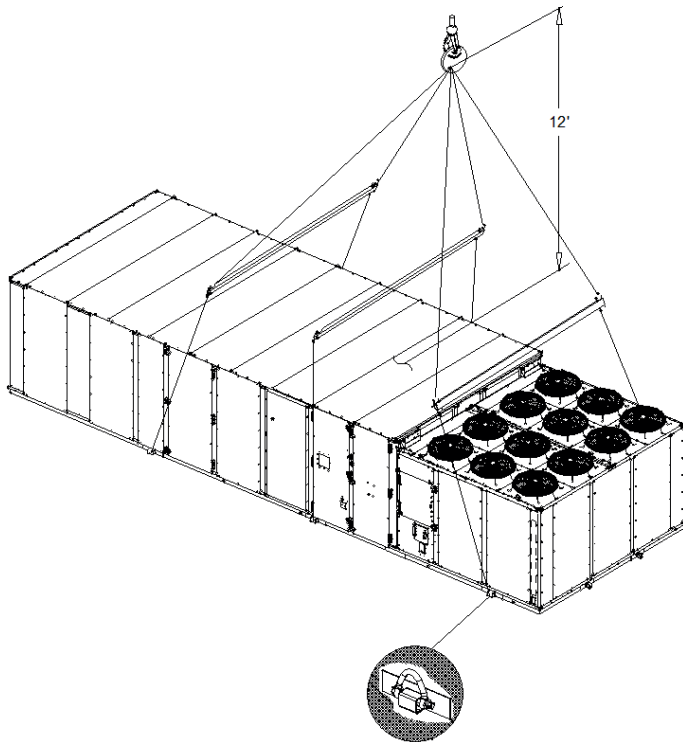
90 - 130 TON COOLING EXTENDED CASING TYPICAL LAYOUT  
DIMENSION DRAWING

## TYPICAL ROOF CURB AND BASE PAN DETAIL



## TYPICAL PEDESTAL AND BASE PAN DETAIL





**Notes:**

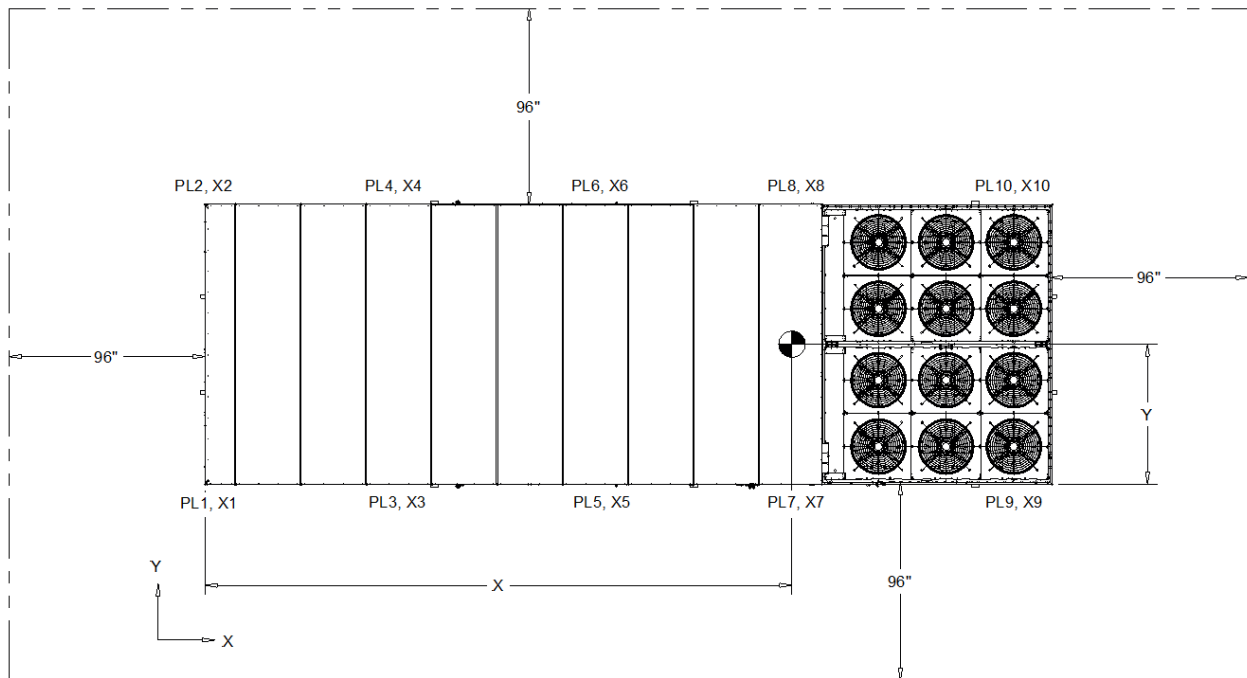
1. The actual weight is stamped on the unit nameplate.
2. The weight shown represents the typical unit operating weight for the configuration selected.  
Estimated at +/- 10% of the nameplate weight.
3. Design special weights are not displayed. Any weight added through COD (Custom Order Design) will not be accounted in the +/- 10% estimate
4. When 2 or more units are to be placed side by side, the distance between the units should be increased to 150% of the recommended single unit clearance. The units should also be staggered to reduce span deflection & assure proper diffusion of exhaust air.

Point Load 1:	1,565.1 lb	Point Load Location:	4.000 in
Point Load 2:	1,576.5 lb	Point Load Location:	4.000 in
Point Load 3:	1,523.1 lb	Point Load Location:	120.000 in
Point Load 4:	1,534.4 lb	Point Load Location:	136.000 in
Point Load 5:	1,488.7 lb	Point Load Location:	215.000 in
Point Load 6:	1,500.0 lb	Point Load Location:	309.000 in
Point Load 7:	1,454.6 lb	Point Load Location:	396.000 in
Point Load 8:	1,465.9 lb		
Point Load 9:	1,423.0 lb		
Point Load 10:	1,434.4 lb		

Total Weight: 14,965.7 lb

Center of Gravity x: 204.200 in

Center of Gravity y: 70.250 in



**CENTER OF GRAVITY AND CLEARANCES**  
**PLAN VIEW OF UNIT**



CUSTOMER CONNECTION WIRE RANGE			
NOTES:	COMPONENT TYPE/SIZE	WIRE QTY PER PHASE	WIRE RANGE
TERMINAL BLOCK AND STD SCCR DISCONNECT SWITCH SIZES ARE CALCULATED BY SELECTING THE SIZE GREATER THAN OR EQUAL TO 1.15 X (SUM OF UNIT LOADS).  SEE UNIT LITERATURE FOR UNIT LOAD VALUES.	510A TERMINAL BLOCK	2	6 AWG - 250 kcmil
	760A TERMINAL BLOCK	2	4 AWG - 500 kcmil
	150A DISCONNECT SWITCH (STD SCCR)	1	14 AWG - 3/0 AWG
	250A DISCONNECT SWITCH (STD SCCR)	1	3/0 AWG - 350 kcmil *
	400A DISCONNECT SWITCH (STD SCCR)	2	2/0 AWG - 500 kcmil
	600A DISCONNECT SWITCH (STD SCCR)	2	2/0 AWG - 500 kcmil
HIGH SCCR DISCONNECT SWITCH SIZES ARE CALCULATED BY SELECTING THE SIZE GREATER THAN OR EQUAL TO 1.25 X (SUM OF UNIT LOADS).  SEE UNIT LITERATURE FOR UNIT LOAD VALUES.	150A DISCONNECT SWITCH (HIGH SCCR)	1	14 AWG - 3/0 AWG
	250A DISCONNECT SWITCH (HIGH SCCR)	1	3/0 AWG - 350 kcmil *
	400A DISCONNECT SWITCH (HIGH SCCR)	2	2/0 AWG - 500 kcmil
	600A DISCONNECT SWITCH (HIGH SCCR)	2	2/0 AWG - 500 kcmil

\*250A DISCONNECT SWITCHES CAN ACCOMMODATE 4 AWG - 4/0 AWG IF LUG SCREWS ARE CHANGED TO S1A59551 KIT (PROVIDED WITH UNIT)