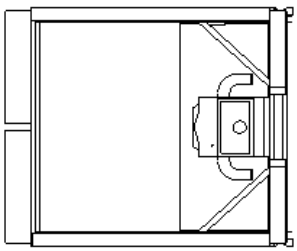
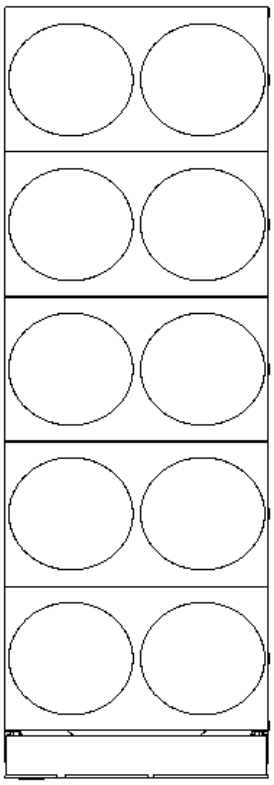
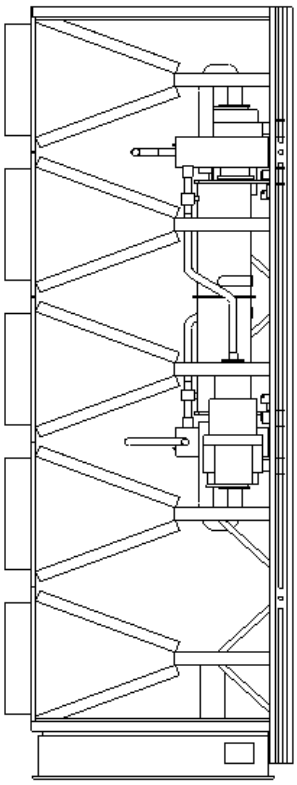
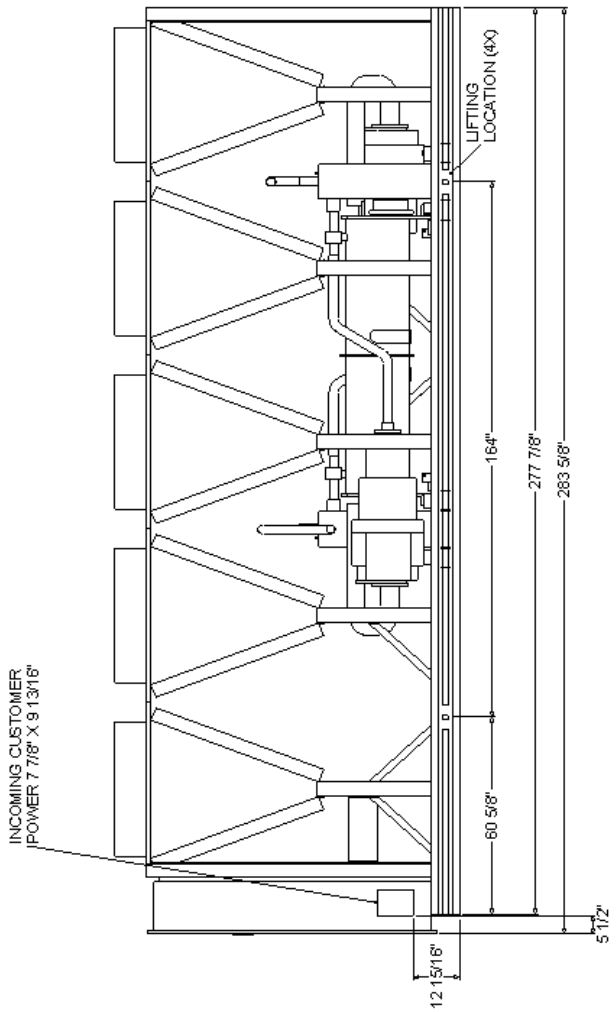
NOMINAL TONS	WATER CONNECTION DIAMETER (INLET/OUTLET)	WATER VOLUME
165	4" (100mm)	4337 in3

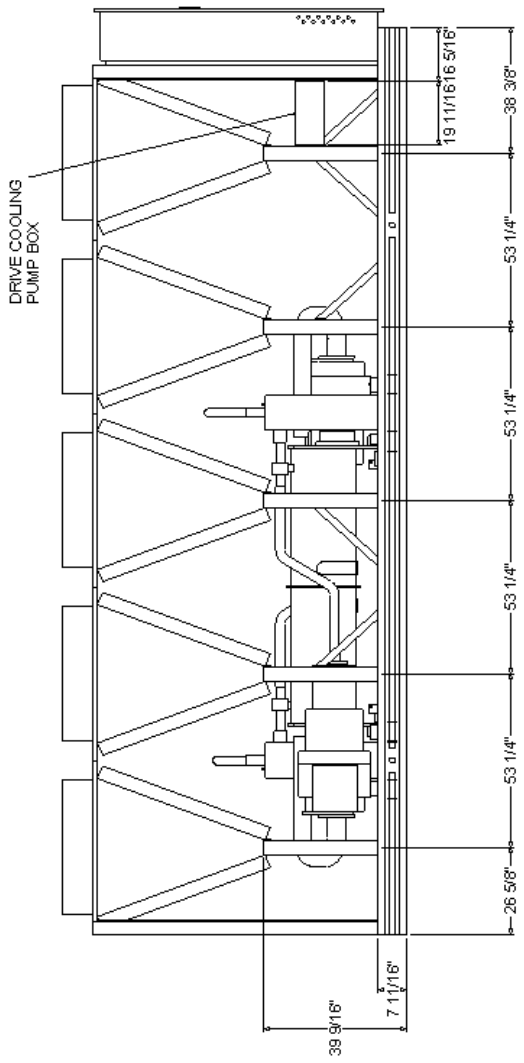




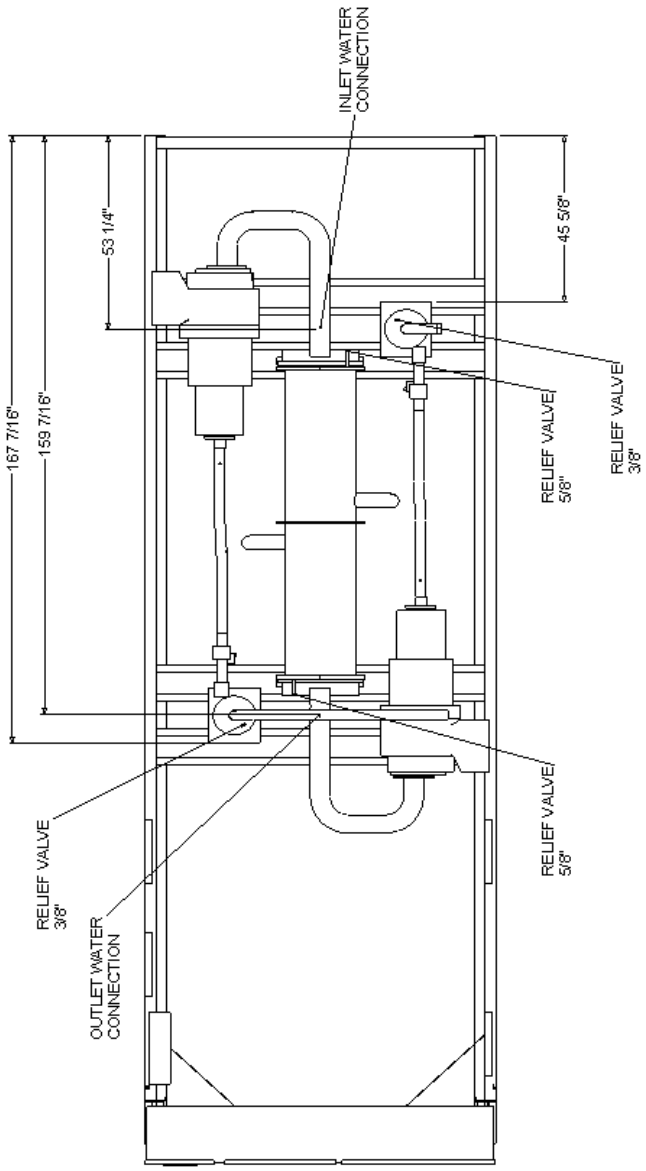




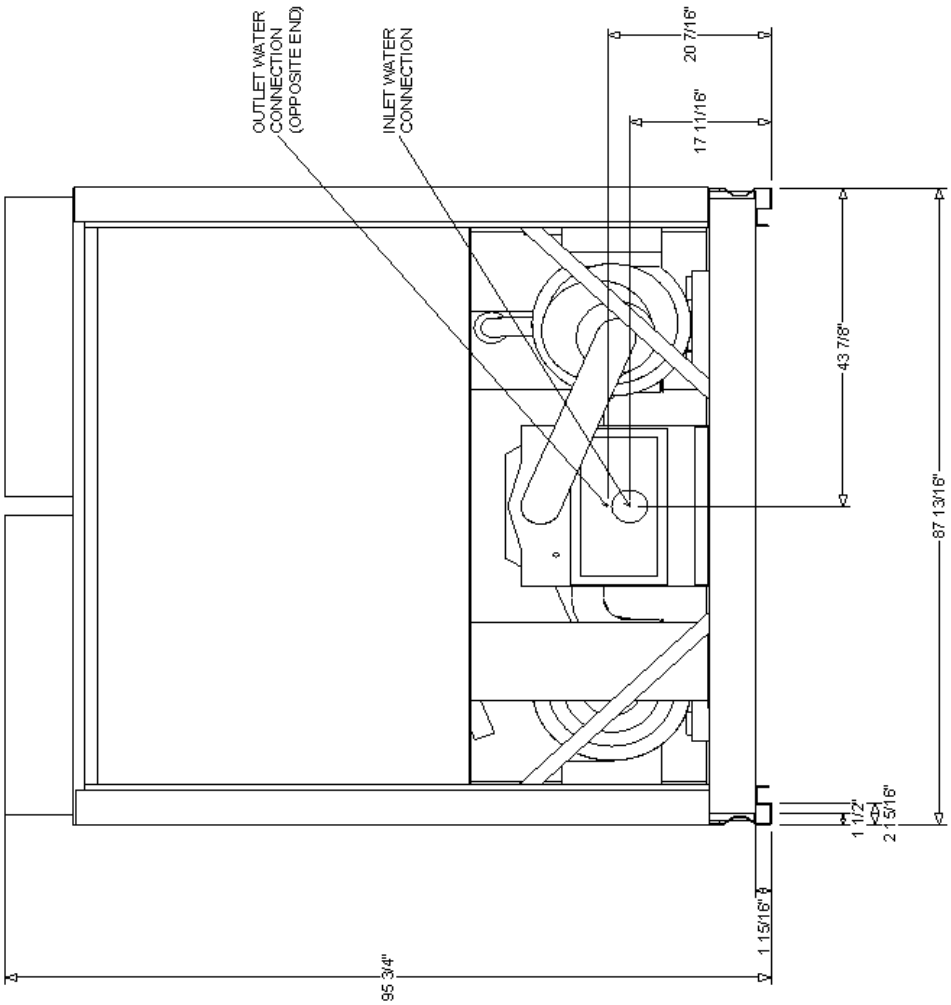
RIGHT SIDE VIEW



LEFT SIDE VIEW

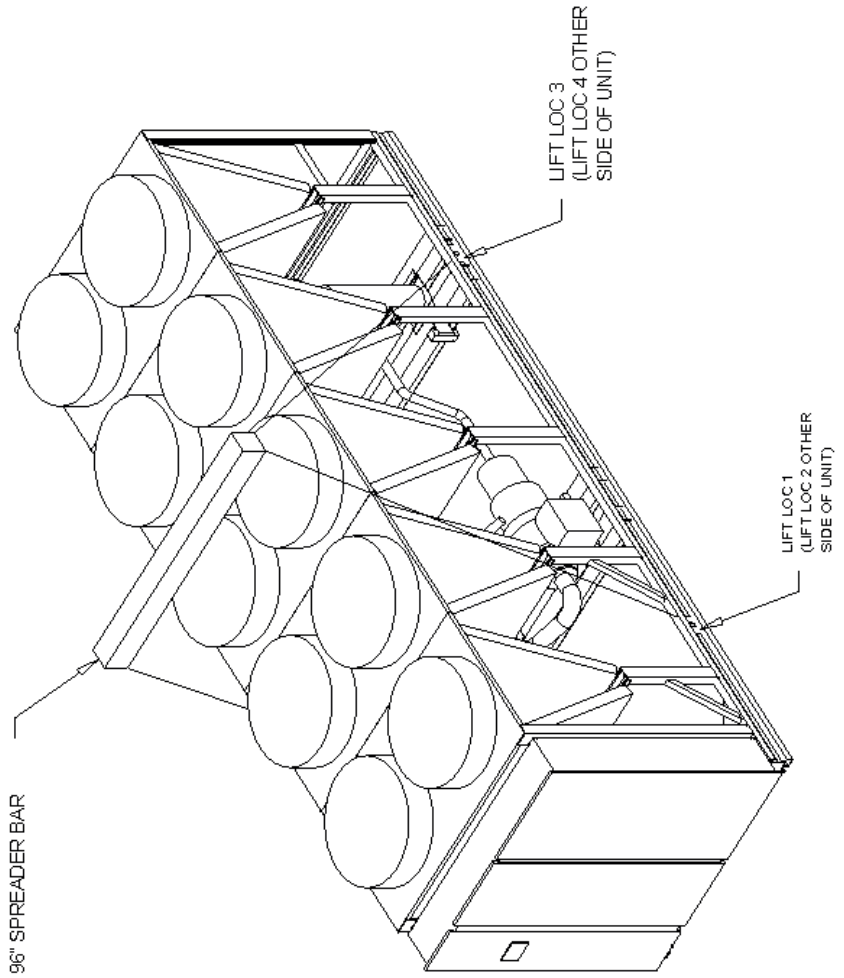


TOP VIEW
(CONDENSER REMOVED FOR CLARITY)



END VIEW
NON CONTROL PANEL END

ADD 1/8" PER SIDE
TO WIDTH OF UNIT FOR
LOUVER PANEL OPTION.



WARNING
LIFTING AND MOVING INSTRUCTIONS!
Use the spreader bar as shown in diagram. Refer to installation instructions located inside control panel for further rigging information.

Other lifting arrangements could result in death, serious injury or equipment damage.

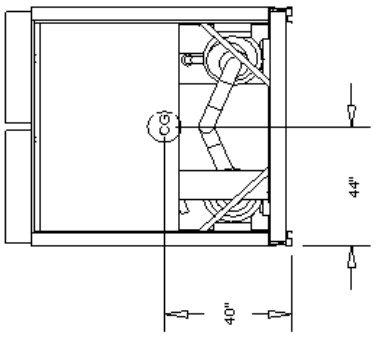
DO NOT ALLOW LIFTING STRAPS TO CONTACT UNIT DURING LIFT!

TOTAL SHIPPING WEIGHT
13177.0 lb

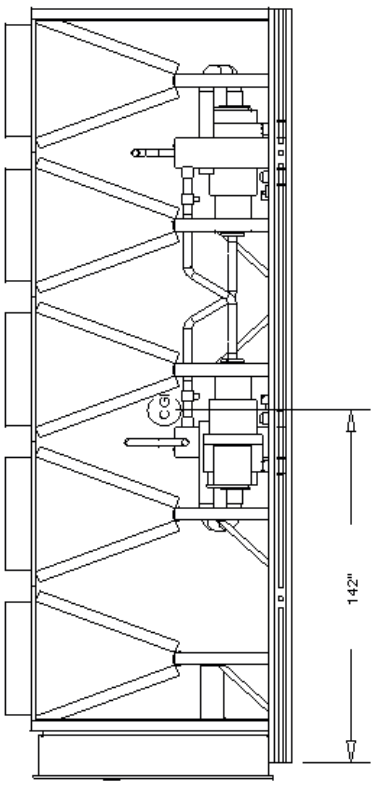
LIFT 1 WEIGHT	LIFT 2 WEIGHT	LIFT 3 WEIGHT	LIFT 4 WEIGHT
3864.5 lb	2875.8 lb	2810.3 lb	3626.4 lb

NOTES:
1. LIFTING CHAINS/CABLES WILL NOT BE THE SAME LENGTH. ADJUST TO KEEP UNIT LEVEL WHILE LIFTING.
2. DO NOT FORK LIFT UNIT.
3. WEIGHTS ARE TYPICAL FOR UNITS WITH R-134A CHARGE.
4. WEIGHTS ARE TYPICAL FOR UNITS WITHOUT LOUVER PANELS.
5. ADD 800.0 lb TO TOTAL WEIGHT FOR ULTRA LOW NOISE OPTION.

END VIEW (NON CONTROL PANEL)

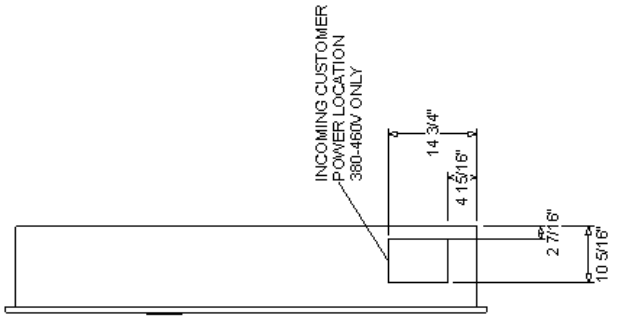


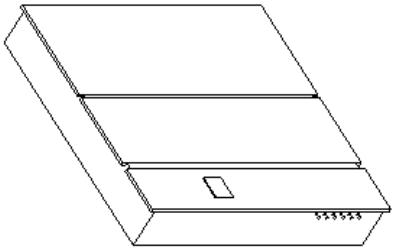
CENTER OF GRAVITY

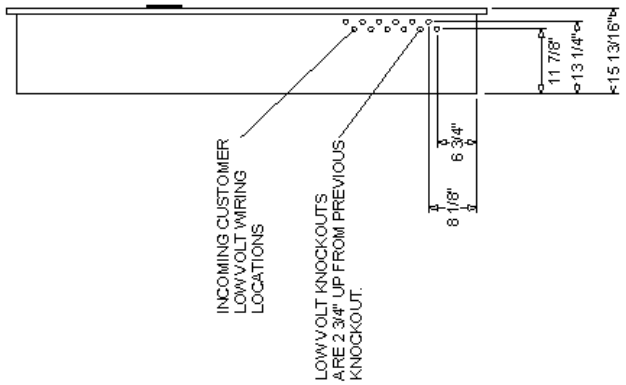


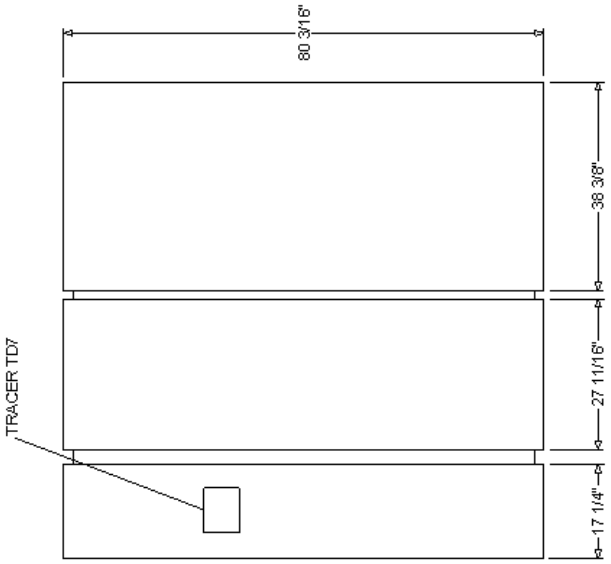
RIGHT SIDE VIEW

CUSTOMER WIRE SELECTION TABLE	
POWER WIRE CONNECTION TO CIRCUIT BREAKER	SHORT CIRCUIT RATING
CIR 1 & 2 (SINGLE POINT POWER) LUG WIRE SIZE RANGE (PER PHASE)	65k A
(2) MAX CONDUCTORS PER PHASE 4/0 AWG - 500MCM	

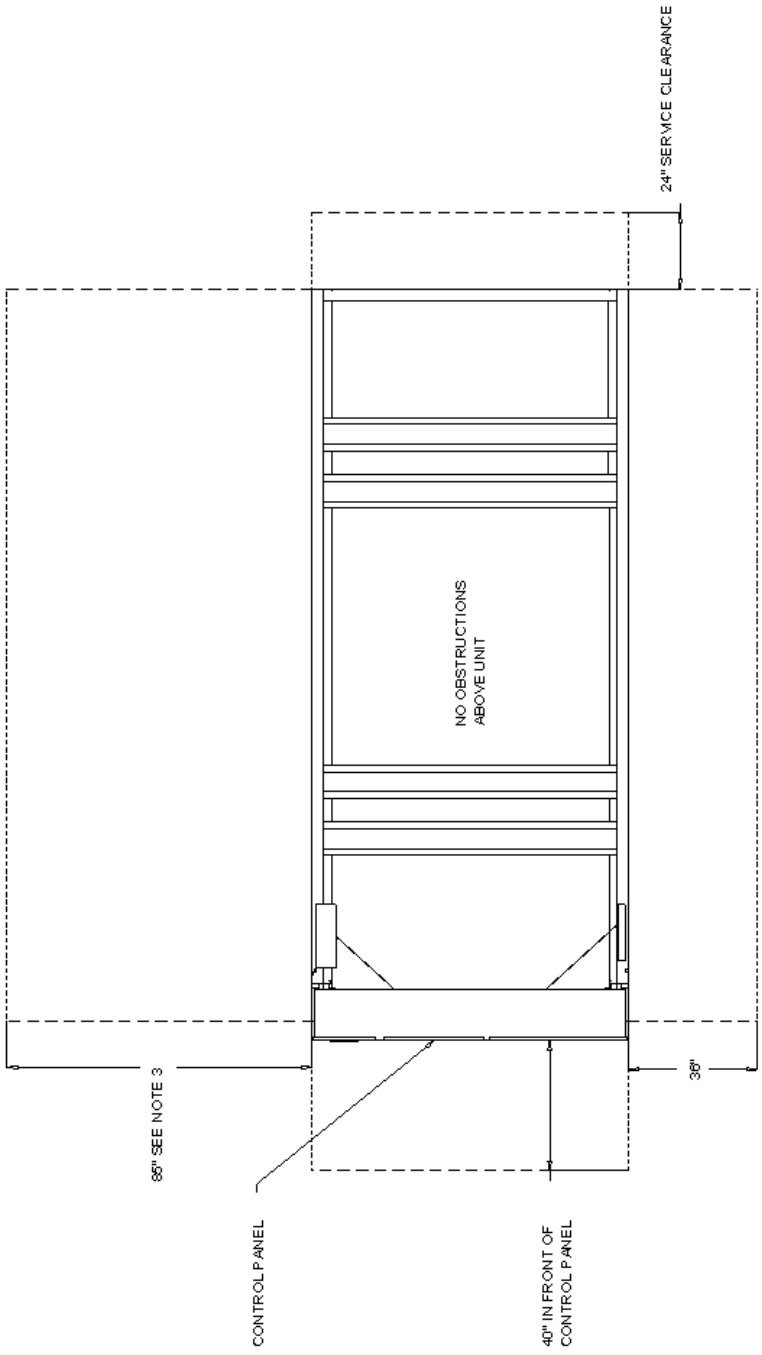








UNIT CLEARANCE

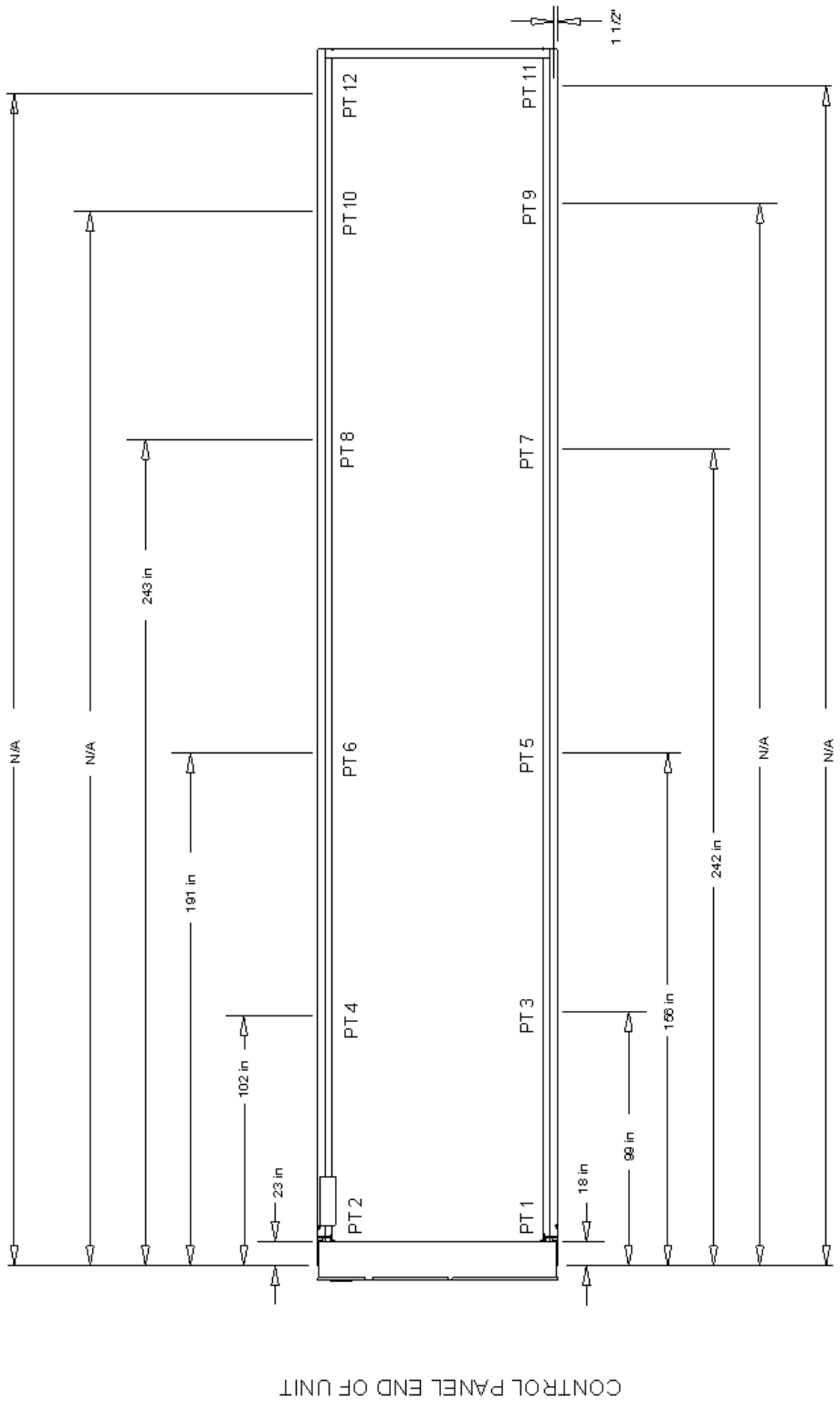


TOP VIEW

NOTES:
1. AREA ABOVE UNIT REQUIRED FOR OPERATION, MAINTENANCE, ACCESS PANEL AND AIR FLOW. NO OBSTRUCTIONS ABOVE UNIT.
2. FOR OBSTRUCTIONS OR MULTIPLE UNITS, REFER TO THE CLOSE SPACING BULLETIN.
3. CLEARANCE OF 85" ON THE SIDE OF THE UNIT IS REQUIRED FOR COIL REPLACEMENT. PREFERRED SIDE FOR COIL REPLACEMENT IS SHOWN (LEFT SIDE OF UNIT, AS FACING CONTROL PANEL), HOWEVER EITHER SIDE IS ACCEPTABLE.

MOUNTING LOCATIONS AND POINT LOAD WEIGHTS

POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6	POINT 7	POINT 8	POINT 9	POINT 10	POINT 11	POINT 12
1538.6 lb	1340.8 lb	1958.6 lb	1887.5 lb	1807.8 lb	1941.5 lb	1521.9 lb	1536.5 lb	N/A	N/A	N/A	N/A



POINT LOCATIONS 1,2,7 & 8
(4X) RDP44WR BRICK RED
MAX LOAD 2250.0 lb

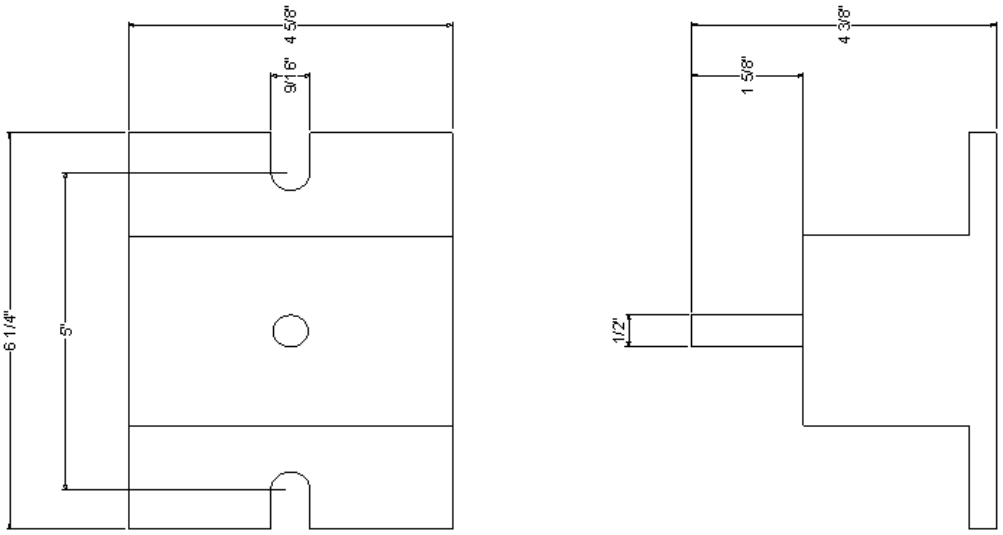
POIN LOCATIONS 3, 4, 5 & 6
(4X) RDP44WR LIME
MAX LOAD 3000.0 lb

TOTAL OPERATING WEIGHT 13323.0 lb

MOUNTING HOLE DIAMETER 5/8"

NOTE:
1. ISOLATOR LOCATIONS ARE DIMENSIONED FROM END OF UNIT BASE.
2. WEIGHTS INCLUDES LOUVER PANELS AND FACTORY OIL AND REFRIGERANT CHARGE.
3. DRAWING IS NOT TOO SCALE. DRAWING IS A REPRESENTATION OF UNIT BASE FOR ALL SIZE UNITS.
4. ADD 800.0 lb TO TOTAL WEIGHT FOR UNITS WITH ULTRA LOW NOISE OPTION.

NEOPRENE ISOLATOR DIMENSIONS

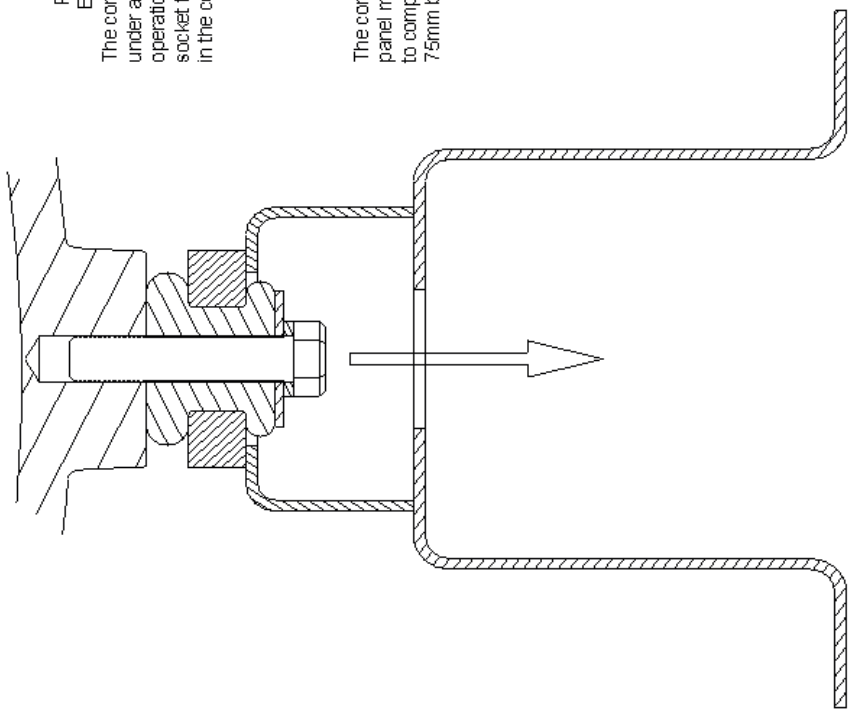


POINT LOCATIONS 1,2,7 & 8
(4X) RDP4-WR BRICK RED
MAX LOAD 2250.0 lb

POIN LOCATIONS 3, 4, 5 & 6
(4X) RDP4-WR LIME
MAX LOAD 3000.0 lb

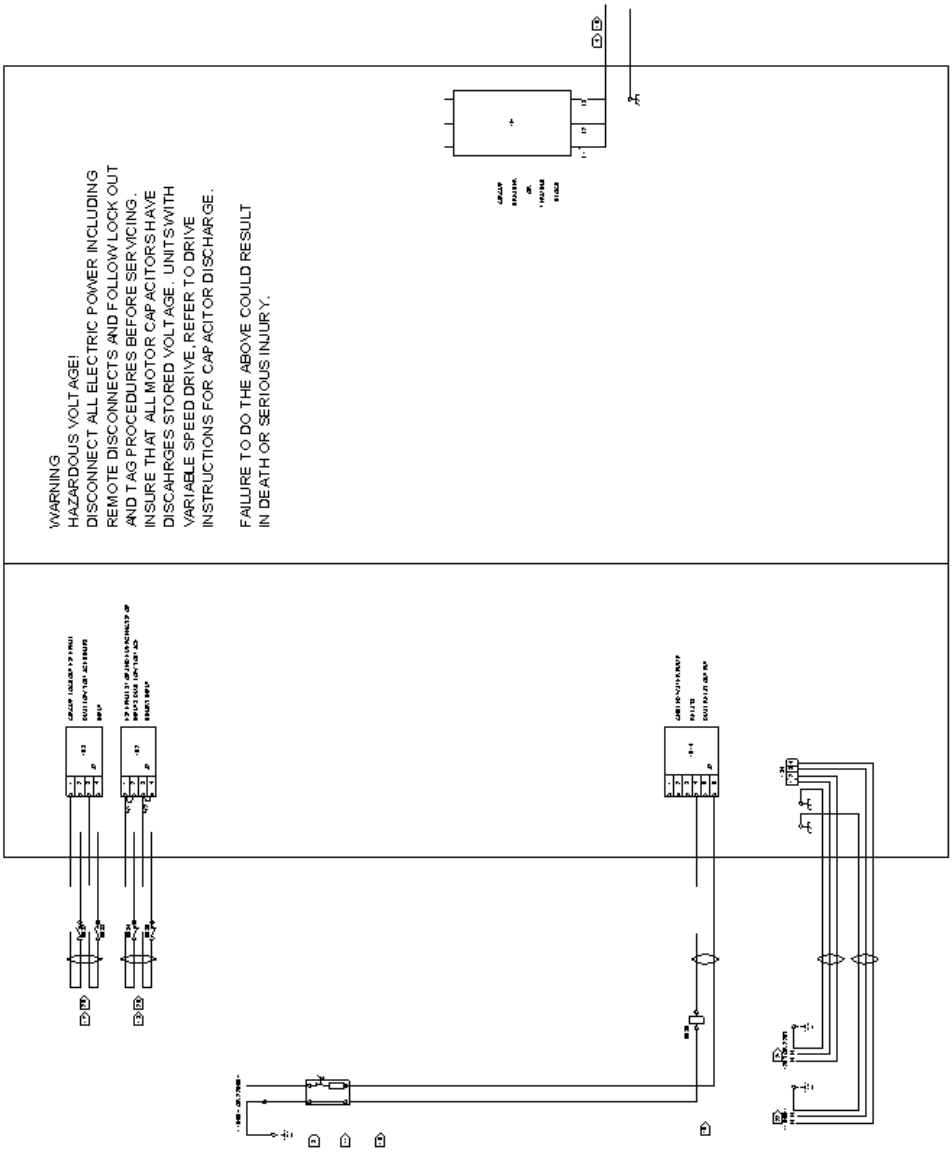
NOTICE
REMOVE COMPRESSOR SHIPPING
BOLTS BEFORE CHILLER OPERATION
The compressor shipping bolts must be removed from under all three compressor feet prior to chiller operation to assure maximum low noise. Use a 24mm socket for the M16 x 75mm bolts. Store the bolts in the control panel for future use.

INSTALL COMPRESSOR SHIPPING
BOLTS BEFORE COMOPRESSOR
REMOVAL
The compressor shipping bolts that are stored in the control panel must be installed under all three compressor feet prior to compressor removal. Use a 24mm socket for the M16 x 75mm bolts.



LOW NOISE COMPRESSOR BOLTS

FIELD WIRING PAGE 1 OF 2



FIELD WIRING PAGE 2 OF 2

GENERAL NOTES

1. CAUTION-DO NOT ENERGIZE THE UNIT UNTIL CHECKOUT AND STARTUP PROCEDURES HAVE BEEN COMPLETED.

2. ALL MOTORS ARE PROTECTED FROM PRIMARY SINGLE PHASE FAILURES.

3. CAUTION-TRANE PUMP CONTROL MUST BE USED TO PROVIDE PUMP CONTROL. EVAPORATOR CHILLED WATER PUMP MUST BE CONTROLLED BY THE CHILLER OUTPUT. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY RESULT IN DAMAGE OT THE UNIT.

<4> SINGLE SOURCE POWER IS PROVIDED AS STANDARD ON THESE PRODUCTS, FIELD CONNECTIONS ARE MADE TO 1F1.

WIRING REQUIREMENTS

5. RECOMMENDED FIELD WIRING CONNECTIONS ARE SHOWN BY DASHED LINES

6. DO NOT RUN LOW VOLTAGE CONTROL WIRING (30 VOLTS OR LESS) IN CONDUIT WITH 110 VOLT OR HIGHER WIRING. DO NOT EXCEED THE FOLLOWING MAXIMUM RUN LENGTH FOR A GIVEN SIZE: 14 AWG, 5000 FT; 16 AWG, 2000 FT; 18 AWG, 1000 FT.

<7> SHIELDED TWISTED PAIR LEADS ARE REQUIRED FOR CONNECTIONS TO THE COMMUNICATIONS INTERFACE MODULE (1K6). THE SHIELD SHOULD BE GROUNDED AT THE RTAE CONTROL PANEL END.

<8> CUSTOMER SUPPLIED POWER 115/60/1PH OR 220/50/1PH TO POWER RELAYS. MAX. FUSE SIZE IS 20 AMPS. GROUND ALL CUSTOMER SUPPLIED POWER SUPPLIES AS REQUIRED BY APPLICABLE CODES. GREEN GROUND SCREWS ARE PROVIDED IN UNIT CONTROL PANEL.

<9> WIRED TO NEXT UNIT. 22 AWG SHIELDED COMMUNICATION WIRE EQUIVALENT TO HELIX LF22P0014216 RECOMMENDED. THE SUM TOTAL OF ALL INTERCONNECTED CABLE SEGMENTS NOT TO EXCEED 4500 FT. CONNECTION TOPOLOGY SHOULD BE DAISY CHAIN. REFER TO BUILDING AUTOMATION SYSTEM (BAS) COMMUNICATION INSTALLATION LITERATURE FOR END OF LINE TERMINATION RESISTOR REQUIREMENTS.

<11> ALL FIELD WIRING MUST BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE AND LOCAL REQUIREMENTS.
CONTACT RATINGS AND REQUIREMENTS

CONTACT RATINGS AND REQUIREMENTS

<15> ALL CUSTOMER CONTROL CIRCUIT WIRING MUST BE COPPER CONDUCTORS ONLY AND HAVE A MINIMUM INSULATION RATING OF 300 VOLTS. EXCEPT AS NOTED, ALL CUSTOMER WIRING CONNECTIONS ARE MADE TO CIRCUIT BOARD MOUNTED BOX LUGS WITH A WIRE RANGE OF 14 TO 18 AWG OR DIN RAIL MOUNTED SPRING FORCE TERMINALS.

<16> UNIT PROVIDED DRY CONTACTS FOR THE CONDENSER/CHILLED WATER PUMP CONTROL. RELAY CONTACT RATINGS AT 120VAC: 7.2 AMPS RESISTIVE, 2.88 AMPS PILOT DUTY, OR 1/3 HP, 7.2 FLA. CONTACTS ARE RATED FOR 5 AMPS GENERAL PURPOSE DUTY 240 VOLTS.

<17> CUSTOMER SUPPLIED CONTACTS FOR ALL LOW VOLTAGE CONNECTIONS MUST BE COMPATABLE WITH DRY CIRCUIT 24 VOLTS DC FOR A 12 mA RESISTIVE LOAD. SILVER OR GOLD PLATED CONTACTS RECOMMENDED.

<18> THE CONTACTS FOR AUTO STOP AND EMERGENCY STOP SWITCHES ARE JUMPERED AT THE FACTORY BY JUMPERS 1W1 & 1W2 TO ENABLE UNIT OPERATION. IF REMOTE CONTROL IS DESIRED, REMOVE THE JUMPERS AND CONNECT TO THE DESIRED CONTROL CIRCUIT.

19. SOLID OVALS REPRESENT MAX NUMBER OF CONDUITS AND/OR CABLE GLANDS USED.

<20> CONNECTIONS ARE INTENDED FOR CLASS 2 ONLY.

<21> CIRCUIT 3 REQUIRES 15A PROTECTION AT 120V..

<22> CIRCUIT 4 REQUIRES 15A PROTECTION.