

150 TON AIR-COOLED CHILLER

PA-ACCTR-150

The 150-Ton portable chiller package features a Trane® RTAC chiller unit. Trane® leads the industry in providing some of the most reliable, efficient and quiet chiller units in the marketplace. Trane® RTAC chiller units feature direct-drive, low-speed semi-hermetic compressors, microprocessor control systems, factory installed strainer systems and flow switches. All of these features are key components to keeping your chiller system operating for the long haul.

All portable chiller units are mounted on Heavy-Duty and DOT Approved trailer designs with plenty of storage for chiller accessories that you can count on to last. Trailers are constructed using an all-steel frame with wood decking material with brake options to include: electric, hydraulic or pneumatic packages.



Drawing is a representation and is not to scale. Actual unit may differ in appearance from that shown. Image shown is "cut-away" and actual unit has factory-installed louvers on exterior.

150 TON AIR-COOLED CHILLER FEATURES

- ◆ Single Point Power Connection with Quick Connect Camlok Connections
- ◆ Integrated Circuit Breaker Overcurrent Protection
- ◆ Pump Package
- ◆ (2) 50' Suction/Discharge Water Hoses
- ◆ 100' 4/0 Power Cable with Camlok Connections

Call us today! (800)341-4297



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GENERAL

| | |
|-------------------------|---------|
| ◆ Trane® Chiller Model | RTAC155 |
| ◆ Number of fans | 9 |
| ◆ Number of compressors | 4 |

DIMENSIONS

- ◆ Length with Trailer
- ◆ Width with Trailer
- ◆ Height with Trailer
- ◆ Shipping Weight with Trailer

ELECTRICAL DATA

| | |
|-----------------------------|--------------------|
| ◆ Power Supply | 460v/3ph/450a/60hz |
| ◆ Connections | 6" Camlok |
| ◆ Minimum Circuit Ampacity | 322a |
| ◆ Min/Max Operational Volts | 414v—506v |

150 TON AIR-COOLED CHILLER



Product Data - Air-Cooled Helical Rotary Water Chillers

Item: 155 ton

155 nominal tons
460v/60 hz/3 ph
Standard configuration
C/UL listing
ASHRAE 90.1 all versions compliant
AHRI certified
ASME
Standard 40-60F leaving, with evaporator heaters
2 pass arrangement, 0.75" insulation
Standard ambient temperature range

CompleteCoat aluminum fins
Condenser fans with TEAO motors
Wye-delta closed transition starter
Single point power connection
Circuit breaker(s) - HACR rated
65,000 amp SCWR
Factory installed flow switch -
for use when evap fluid type = water
Refrigerant isolation valves

Performance Data - Air-Cooled Helical Rotary Water Chillers

| Tags | 155 Ton | Tags | 155 Ton |
|--|---------|---|----------|
| Capacity (tons) | 152.10 | RLA - compressor A (A) | 139.00 |
| Compressor power (kW) | 171.80 | LRA - compressor A (A) | 285.00 |
| Unit power (kW) | 185.60 | RLA - compressor B (A) | 118.00 |
| Efficiency (EER) | 9.8 | LRA - compressor B (A) | 252.00 |
| IPLV (EER) | 14.0 | Number of condenser fans (Each) | 9.00 |
| NPLV (EER) | 14.0 | Number of cond fans-NFN1 - ckt 1 (Each) | 5.00 |
| Evap entering temp (F) | 56.00 | Number of cond fans-NFN2 - ckt 2 (Each) | 4.00 |
| Evap flow rate (gpm) | 303.00 | RLA - condenser fan (each) (A) | 3.00 |
| Evap leaving temp (F) | 44.00 | Single point power MCA (A) | 322.00 |
| Evap pressure drop (ft H2O) | 7.90 | Control panel info-MCA3 ckt 1 (A) | 191.00 |
| Evap fouling factor (hr-sq ft-deg F/Btu) | 0.00010 | Control panel info-MCA4 ckt 2 (A) | 160.00 |
| Evap fluid concentration (%) | 0.00 | Single point power MOP (A) | 450.00 |
| Evap. fluid freeze point (F) | 32.00 | Control panel info-MOP3 ckt 1 (A) | 300.00 |
| Min evap flow rate (gpm) | 214.00 | Control panel info-MOP4 ckt 2 (A) | 250.00 |
| Press drop min evap flow (ft H2O) | 4.10 | Short circuit current rating (A) | 65000.00 |
| Max evap flow rate (gpm) | 785.00 | A-weighted sound power (dBA) | 101 |
| Press drop max evap flow (ft H2O) | 46.00 | Refrig (HFC-134a) - ckt 1 (lb) | 175.0 |
| Saturated evap temp - ckt 1 (F) | 39.50 | Refrig (HFC-134a) - ckt 2 (lb) | 165.0 |
| Saturated evap temp - ckt 2 (F) | 41.50 | Oil charge - ckt 1 (gal) | 1.30 |
| Ambient air temp (F) | 95.00 | Oil charge - ckt 2 (gal) | 1.30 |
| Saturated cond temp - ckt 1 (F) | 133.80 | Shipping weight (lb) | 10910.0 |
| Saturated cond temp - ckt 2 (F) | 134.70 | Operating weight (lb) | 11113.0 |
| Elevation (ft) | 0.00 | Rated capacity (AHRI) (tons) | 151.90 |
| | | Rated efficiency (AHRI) (EER) | 9.8 |
| | | COP (COP) | 2.88 |

Mechanical Specifications - Air-Cooled Helical Rotary Water Chillers

Item: 155 ton

General

Units are leak and pressure tested at 390 psig (2689 kPa) high side, 250 psig (1724 kPa) low side, then evacuated and charged. All Air-cooled Series R(TM) chillers are factory tested to confirm operation prior to shipment. Units ship with full operating charge of oil and refrigerant.

Unit panels, structural elements and control boxes are constructed of galvanized steel and mounted on a welded structural steel base. Unit panels and control boxes are finished with a baked-on powder paint, and the structural base with an air dry paint. All paint meets the requirement for outdoor equipment of the U.S. Navy and other Federal Government Agencies.

The chiller shall control the chilled water flow either directly or through an input to a building automation system to conduct an action resulting in minimum flow through the chiller evaporator barrel.

Evaporator - Medium

The evaporator is a tube-in-shell heat exchanger design with internally and externally finned copper tubes roller expanded into the tube sheet. The evaporator is designed, tested and stamped in accordance with ASME for a refrigerant side working pressure of 200 psig (1379 kPa). The evaporator is designed for a water side working pressure of 150 psig (1034 kPa). Water connections are grooved pipe. Each shell includes a vent, a drain and fittings for temperature control sensors and is insulated with 0.75 inch Armaflex II or equal insulation (K=0.26). Insulation also covers the liquid and suction line and evaporator heads. Heaters, with thermostat, are provided to help protect the evaporator from freezing at ambient temperatures down to -20 F (-29 C), depending on application. A separate low voltage power source is required to power the heaters. Anytime water is present in the evaporator, the Trane CH530 must have flow control of the chilled water system to avoid potentially catastrophic damage to the evaporator due to freezing.

Operating Temperature

Unit is designed for operation in standard evaporator temperature (greater than 40 F, 4 C) modes.

Chilled Water Reset

Provides the control logic and factory-installed sensors to reset leaving chilled water temperature. The setpoints can be reset based on ambient temperature or return evaporator water temperature.

Pressure Vessel Code

Chiller complies with ASME Pressure Vessel Code. ASME nameplates are attached to applicable pressure vessels including oil separators.

Condenser and Fans

Air-cooled condenser coils have aluminum fins mechanically bonded to internally finned copper tubes. Completely assembled coils are dipped and baked in an electro-mechanically bonded flexible

epoxy coating. Provides uniform epoxy coating of all surfaces on aluminum fins, copper tubes, coil frames, and heads of condenser. No associated surfaces remain bare. Allows for corrosion resistance without performance degradation. Coils with coating passed 3000-hour salt spray test. Condenser coil has an integral subcooling circuit. Condensers are factory proof and leak tested at 506 psig (3489 kPa).

Direct drive vertical discharge condenser fans are dynamically balanced. Three phase condenser fan motors with permanently lubricated ball bearing and internal thermal protection are provided. Standard units will start and operate down to 25 F (-4 C) ambient.

Totally Enclosed Air-Over (TEAO) motors completely seal motor windings, preventing exposure to ambient conditions.

Unit is also designed to start and operate in upper ambient conditions, up to 115 degrees F (46 C).

Compressor Starter - Y delta

Starter is a wye-delta closed transition configuration. The wye-delta closed transition starter reduces inrush current (Locked Rotor Amps) by 66%. The starter is factory mounted and completely prewired to the compressor motor. Starters are housed in a weathertight enclosure.

Compressor and Lube Oil System

The rotary screw compressor is semi-hermetic, direct drive, 3600 rpm, with step and variable load and unloaded valves for capacity control, rolling element bearings, differential refrigerant pressure oil pump and oil heater. The motor is a suction gas cooled, hermetically sealed, two pole squirrel cage induction motor.

Oil separation is provided separate from the compressor. Automatically controlled valves are provided on the compressor discharge and lube oil system. A solenoid valve in the lube oil return system is also provided. Oil filtration is accomplished by an integral oil filter located within the compressor.

Refrigerant Circuits

Each unit has two refrigerant circuits, with one or two rotary screw compressor per circuit. Each refrigerant circuit includes compressor suction and discharge service valves, liquid line shutoff valve (except remote evap), removable core filter, liquid line sight glass, charging port and one electronic expansion valve per circuit. Fully modulating compressors and electronic expansion valves provide variable capacity modulation over the entire operating range.

Mechanical Specifications - Air-Cooled Helical Rotary Water Chillers

Item: 155 ton

Unit Controls

All unit controls are housed in a outdoor rated enclosure with removable plates to allow for customer connection of power wiring and remote interlocks. All controls, including sensors, are factory mount and tested prior to shipment.

Microcomputer controls provide all control functions including start up and shutdown, leaving chilled water temperature control, compressor and electronic expansion valve modulation, fan sequencing, anti-recycle logic, automatic lead/lag compressor starting, load limiting and chilled water pump control.

The unit control module, utilizing Adaptive Control (TM) microprocessor, automatically takes action to avoid unit shutdown due to abnormal operating conditions associated with low refrigerant pressure, high condensing pressure and motor current overload. Should the abnormal operating condition continue until a protective limit is violated, the unit will be shut down. A control power transformer is factory installed and wired.

Controls Function Data

Unit protective functions include loss of chilled water flow, evaporator freezing, loss of refrigerant, low refrigerant pressure, high refrigerant pressure, compressor starting and running over current, phase loss, phase imbalance, phase reversal and loss of oil flow.

A menu driven digital display indicates over 20 operating data points including chilled water set point, current limit set point, entering and leaving chilled water temperature, evaporator and condenser refrigerant pressures and temperatures. Over 60 diagnostic checks are made and displayed when a problem is detected. The digital display can be read and advanced on the unit without opening any control panel doors. Touch screen LCD, allows for easy access of all important chiller operating information.

Short Circuit Current Rating (SCCR)

A short circuit current rating offers a measure of safety for what the starter panel enclosure is able to withstand in the event of an explosion caused by a short circuit.

Circuit Breaker

A standard interrupting molded case circuit breaker is provided with through-the-door handle to disconnect the main power and comes pre-wired from the factory with terminal block power connections.

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Power Connection

Unit is provided with single-point electrical power connection. Field wiring connection point will be on the bottom right corner of the electrical panel.

Flow Switch

There is a factory installed flow switch with a velocity setpoints of 60 cm/sec included on this chiller.

Warranty

A First Year Parts Warranty is included, covering the whole unit.

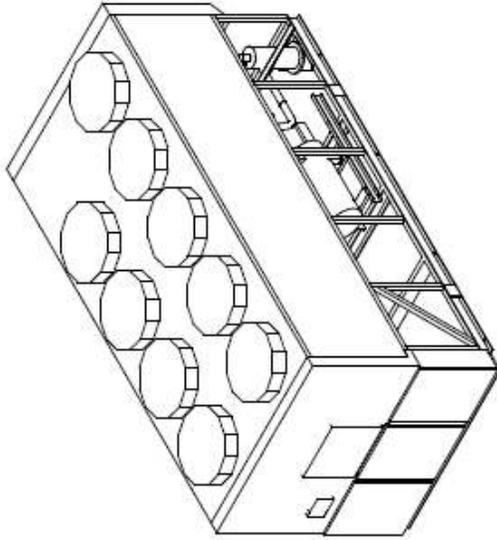
Unit Dimensions - Air-Cooled Helical Rotary Water Chillers

Item: A1 Qty: 1 Tag(s): 155 ton

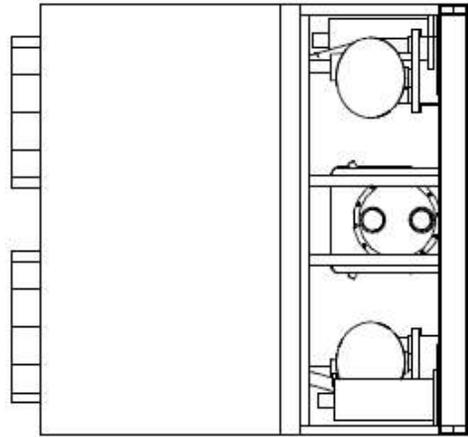
WATER VOLUME STORAGE 32 GAL (121 LITERS)

WATER VOLUME STORAGE 32 GAL (121 LITERS)

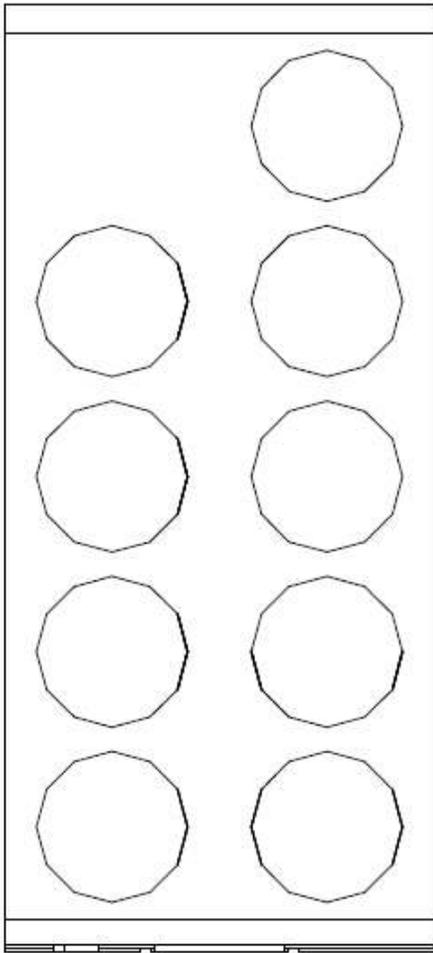
MOUNTING HOLE DIAMETER 11/16"
WATER CONNECTION DIAMETER 4 in (100 mm) NPS
LIFTING PLATE DIMENSIONS 6" x 5 1/2"



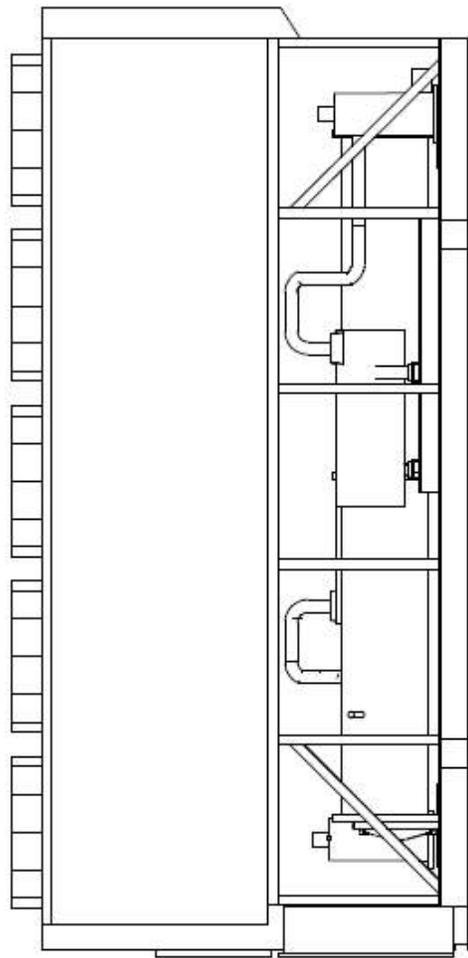
ISOMETRIC VIEW



END VIEW



TOP (PLAN) VIEW

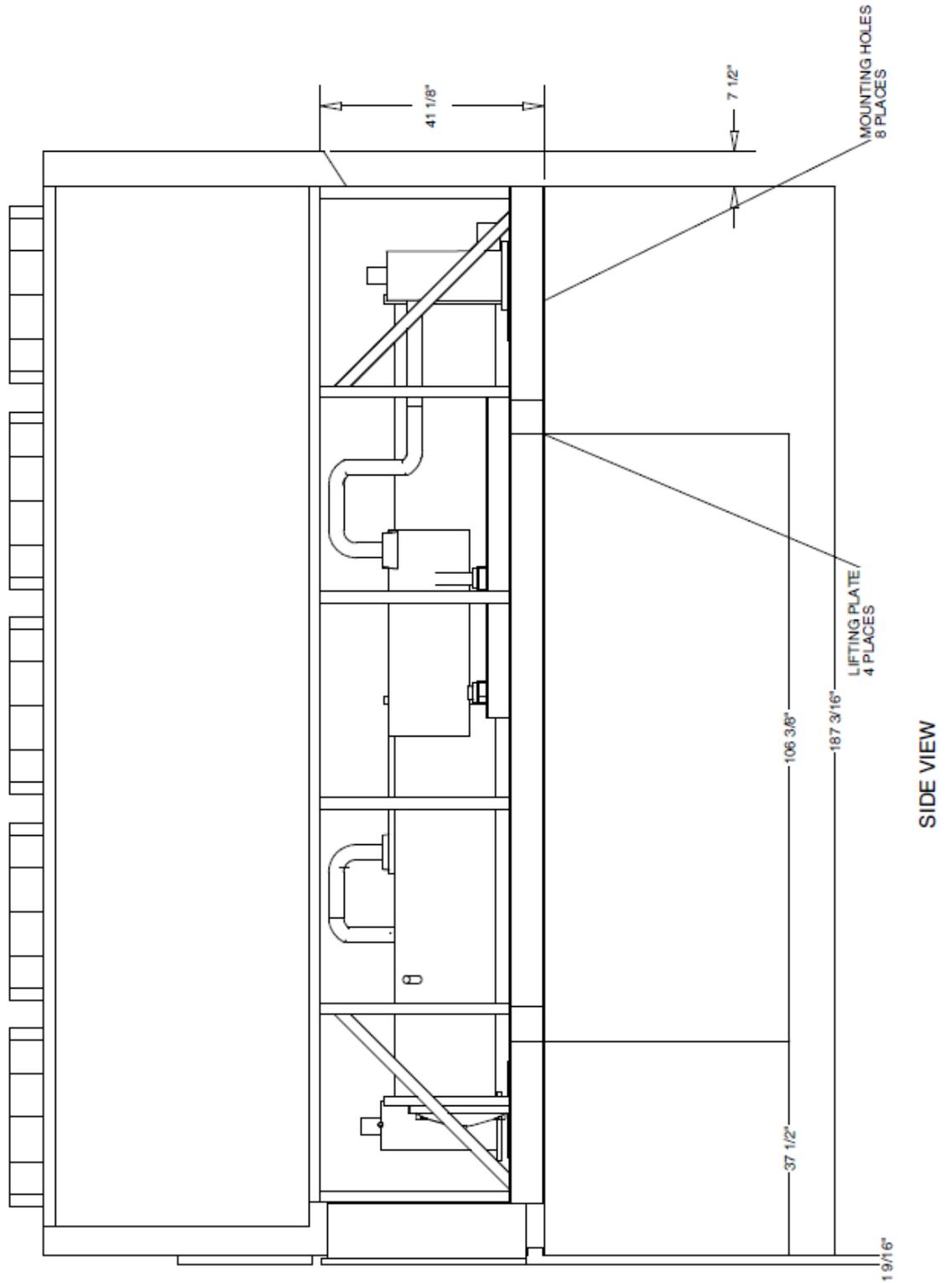


SIDE VIEW

**Disclaimer: Drawing not to scale. All measurements are only approximations and are subject to change.*

Unit Dimensions - Air-Cooled Helical Rotary Water Chillers

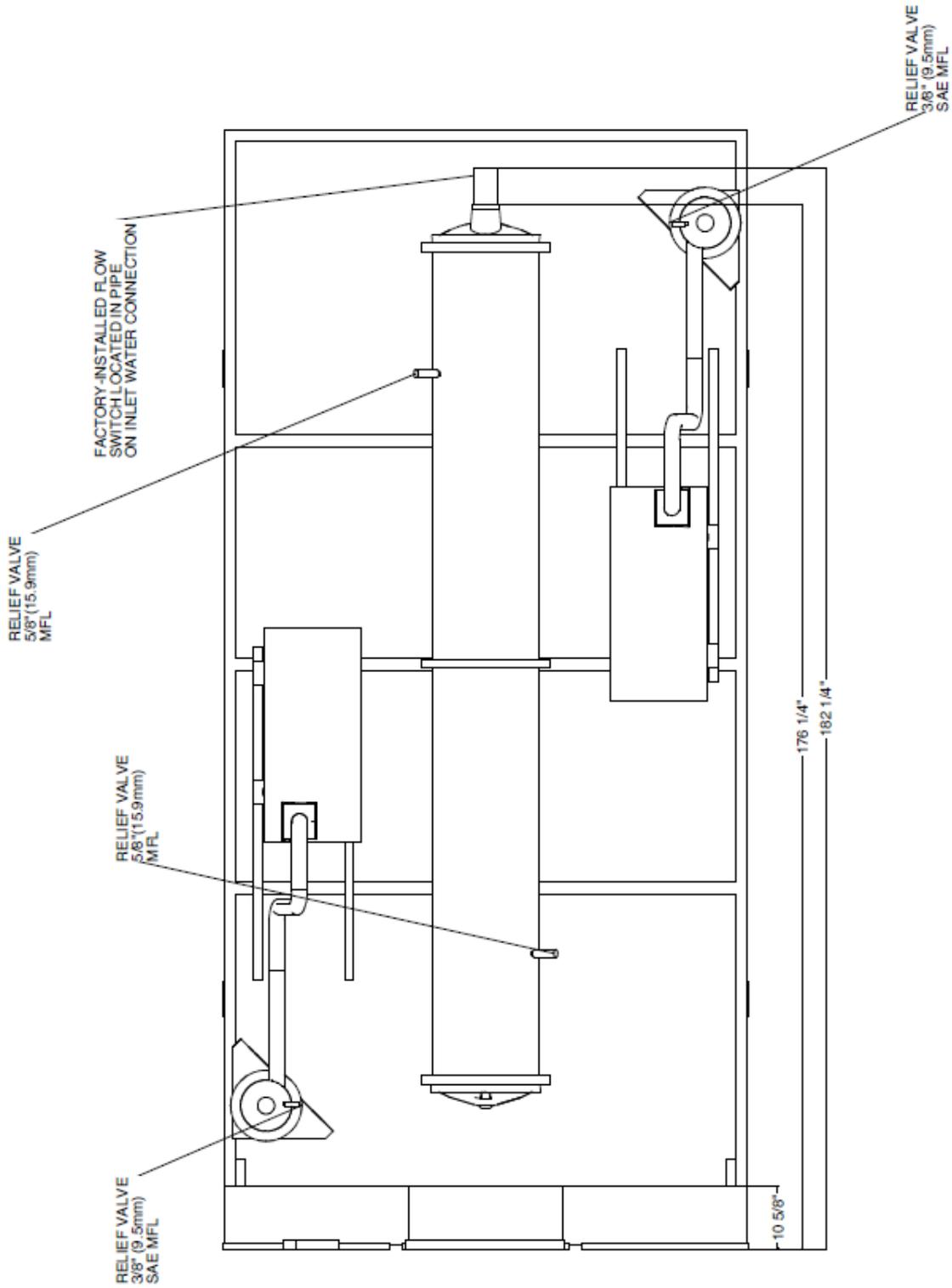
Item: A1 Qty: 1 Tag(s): 155 ton



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Unit Dimensions - Air-Cooled Helical Rotary Water Chillers

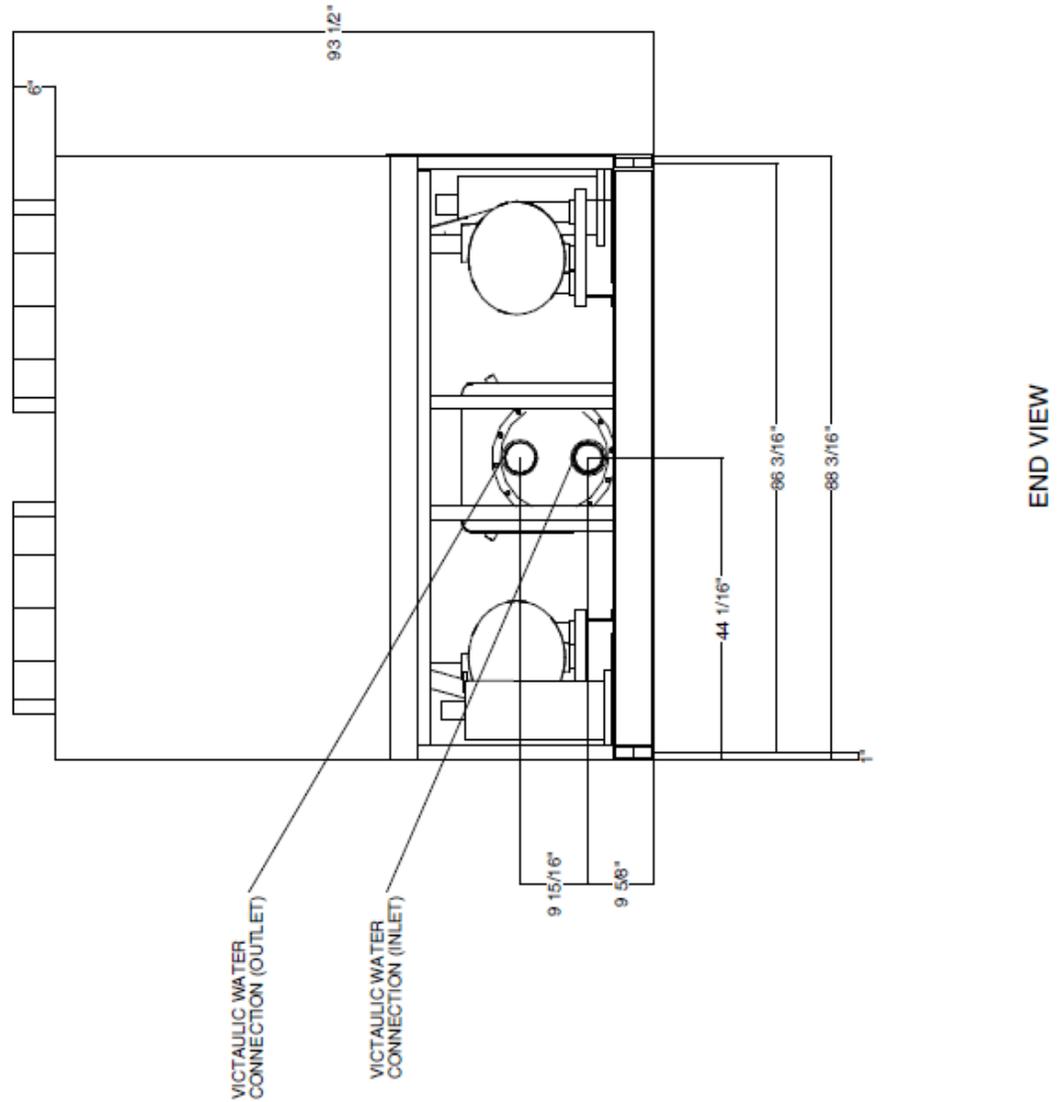
Item: A1 Qty: 1 Tag(s): 155 ton



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Unit Dimensions - Air-Cooled Helical Rotary Water Chillers

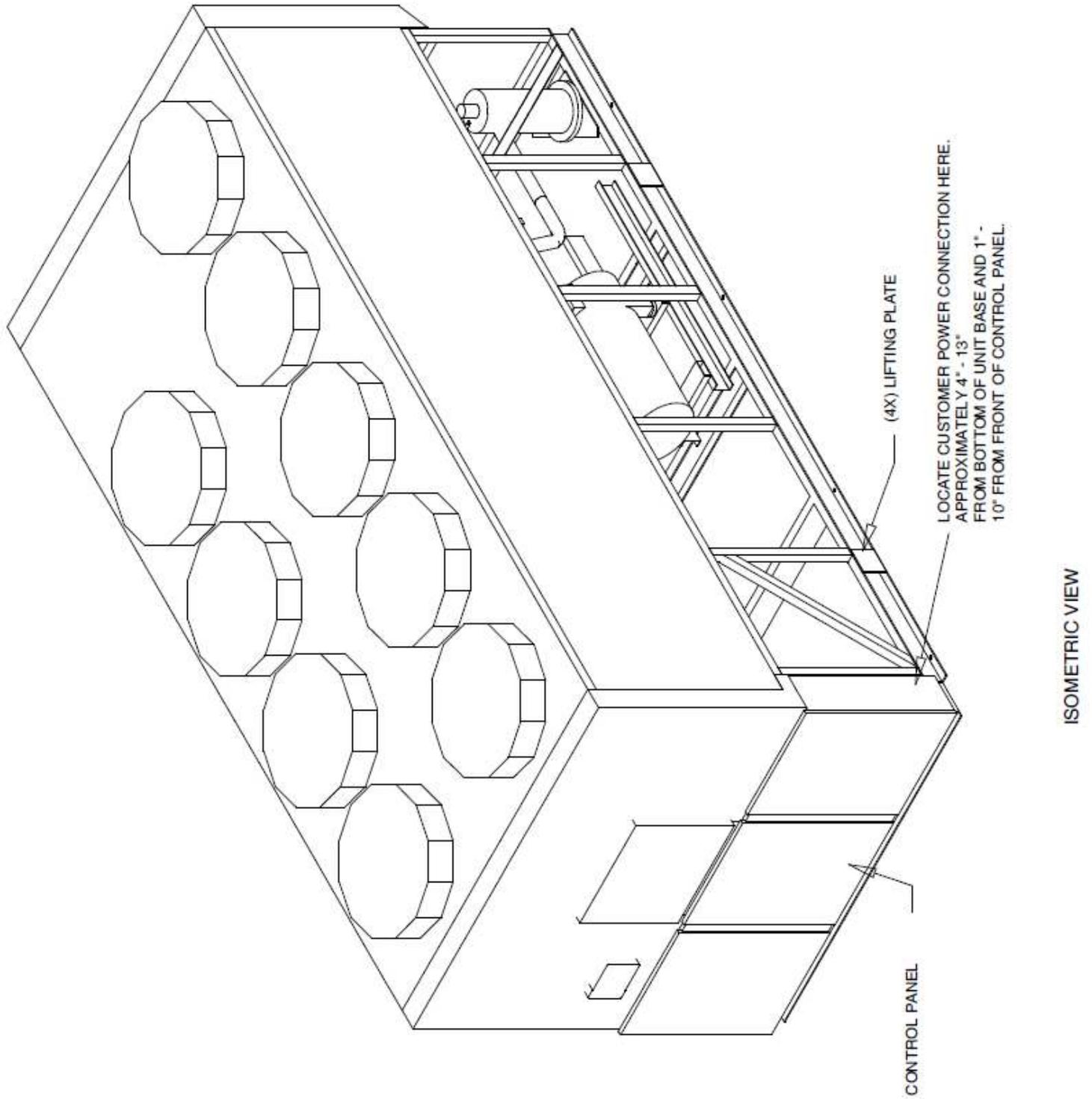
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Unit Dimensions - Air-Cooled Helical Rotary Water Chillers

Item: A1 Qty: 1 Tag(s): 155 ton



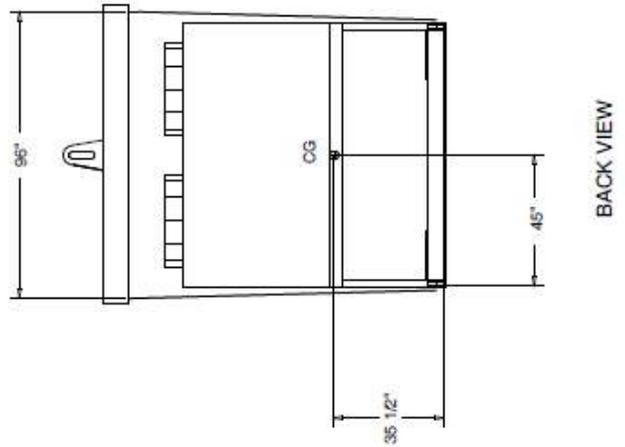
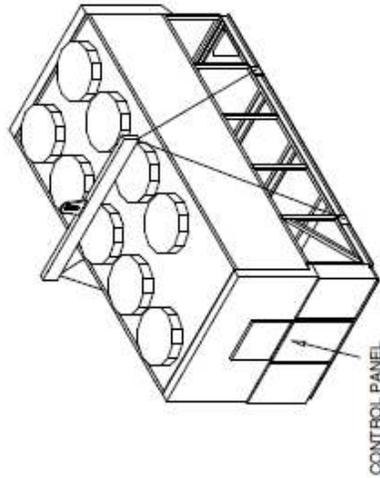
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Weight, Clearance & Rigging Diagram - Air-Cooled Helical Rotary Water Chillers

Item: A1 Qty: 1 Tag(s): 155 ton

| LIFTING WEIGHTS | | | | TOTAL WEIGHT |
|-----------------|-----------|-----------|-----------|--------------|
| W1 | W2 | W3 | W4 | |
| 2446.0 lb | 2881.0 lb | 2627.0 lb | 2956.0 lb | 10910.0 lb |

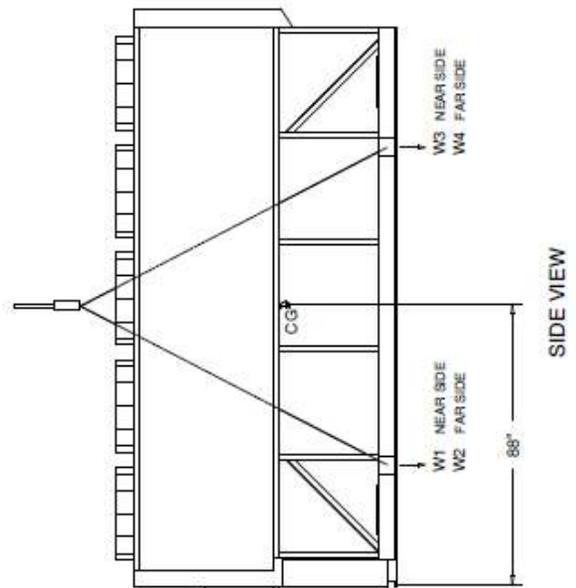
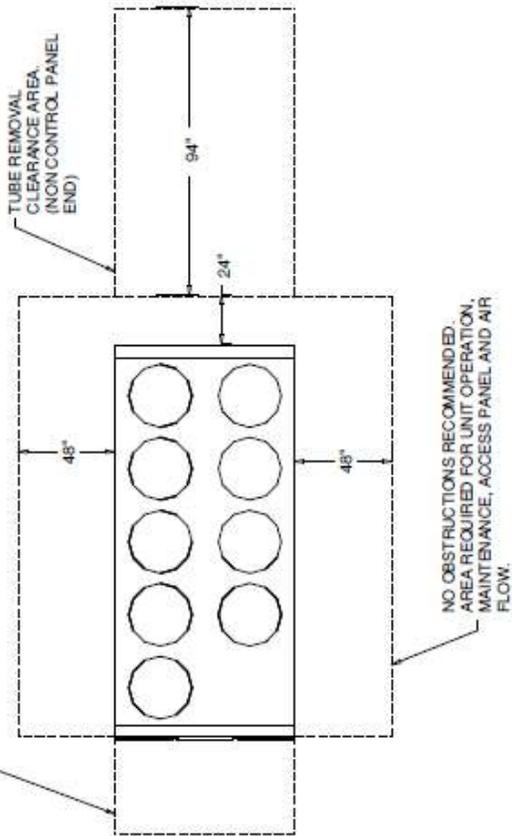
- NOTES:
1. LIFTING CHAINSCABLES WILL NOT BE THE SAME LENGTH. ADJUST TO KEEP UNIT LEVEL WHILE LIFTING.
 2. DO NOT FORK LIFT UNIT.
 3. WEIGHTS ARE TYPICAL FOR UNITS WITH R-134A CHARGE.
 4. WEIGHTS ARE TYPICAL FOR UNITS WITHOUT LOUVER PANELS.



FOR OBSTRUCTIONS OR MULTIPLE UNITS, REFER TO THE CLOSE SPACING BULLETIN.

NO OBSTRUCTIONS ABOVE THE CONDENSER

WORKING CLEARANCE PER NATIONAL ELECTRIC CODE ARTICLE 110-26.



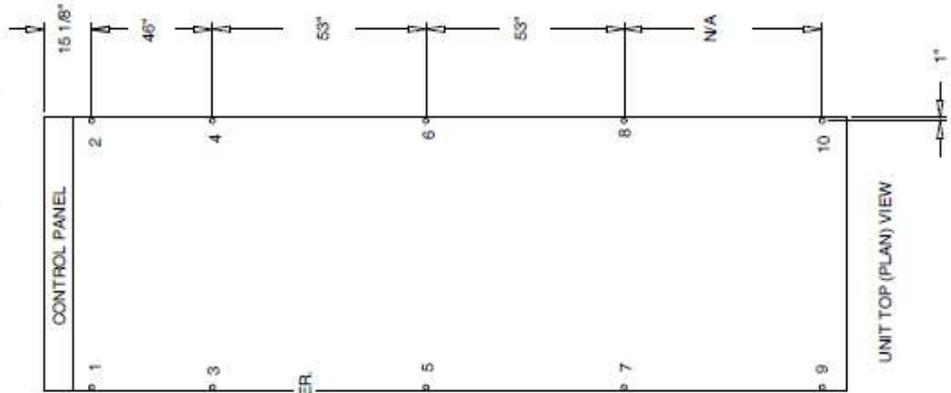
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Accessory - Air-Cooled Helical Rotary Water Chillers
 Item: A1 Qty: 1 Tag(s): 155 ton

| UNIT SIZE | MOUNTING LOCATIONS AND POINT LOAD WEIGHTS | | | | | | | | | | TOTAL OPERATING WEIGHT |
|-----------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|-----|------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 155 TON | 1402.0 lb | 1450.0 lb | 1383.0 lb | 1430.0 lb | 1361.0 lb | 1406.0 lb | 1333.0 lb | 1379.0 lb | N/A | N/A | 11113.0 lb |

| UNIT SIZE | MOUNTING LOCATIONS AND ISOLATOR PART NUMBER | | | | | | | | | | MAX LOAD |
|-----------|--|---|---|---|---|---|---|---|---|----|----------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 155 TON | NOTE: Point loads and locations are provided for customer use only. NO ISOLATORS ARE PROVIDED WITH THIS CHILLER. | | | | | | | | | | N/A |

MOUNTING LOCATION 1 IS DIMENSIONED FROM THE EDGE OF THE UNIT BASE (NOT THE EDGE OF THE CONTROL PANEL)



NOTE: Point loads and locations are provided for customer use only. NO ISOLATORS ARE PROVIDED WITH THIS CHILLER.

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Field Wiring - Air-Cooled Helical Rotary Water Chillers

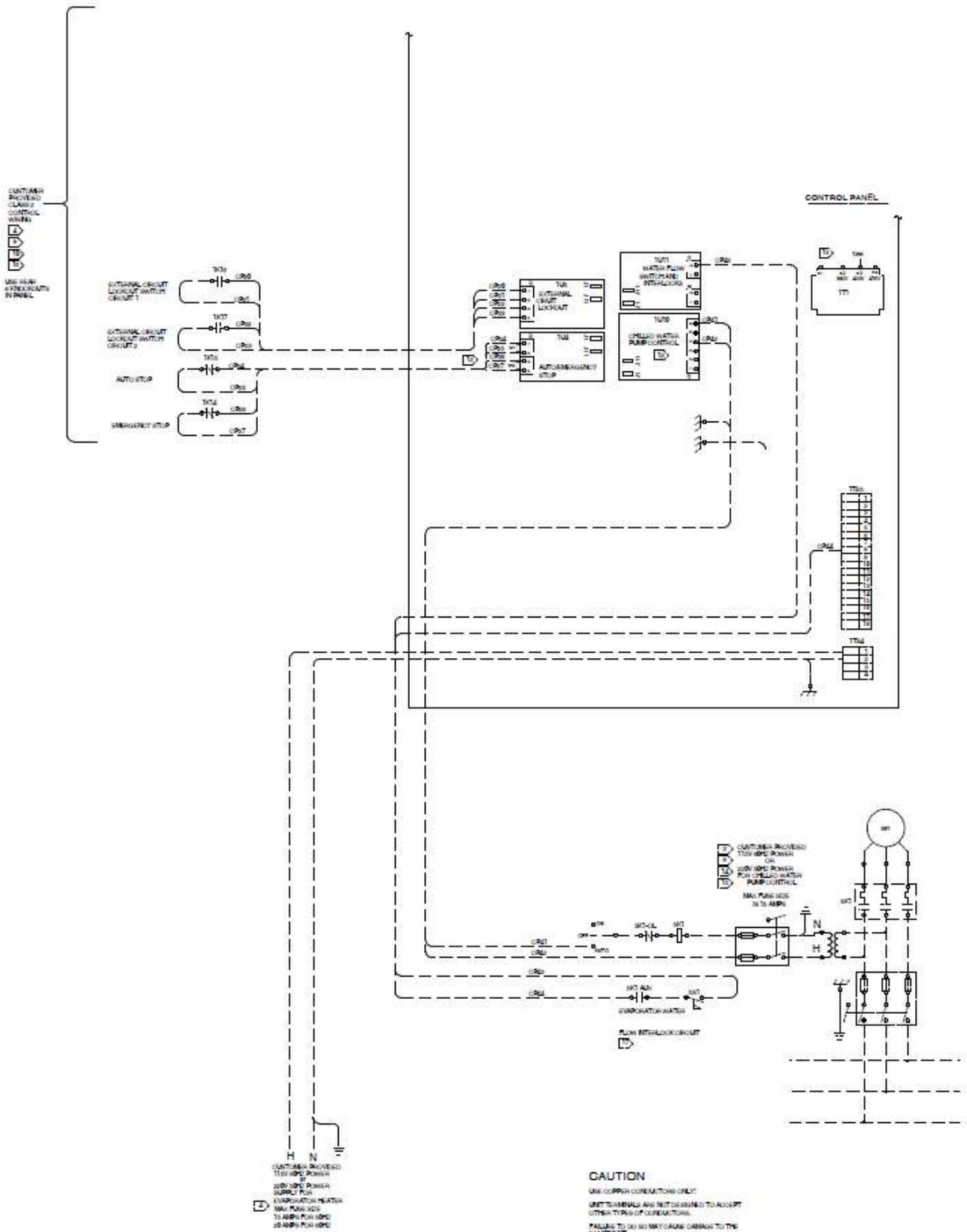
Item: A1 Qty: 1 Tag(s): 155 ton

FIELD WIRING PAGE 1 OF 3

WARNING
HAZARDOUS VOLTAGE!

DISCONNECT ALL ELECTRICAL POWER INCLUDING ALL TO THE DISCONNECTS AND FOLLOW LOCKOUT AND TAG PROCEDURES BEFORE SERVICING. BEWARE THAT ALL THE CAPACITORS HAVE DISCHARGED STORED ELECTRICAL ENERGY (ESPECIALLY AFTER TO SERVICING INSTRUCTIONS FOR CAPACITOR DISCHARGE).

FAILING TO DO THE ABOVE BEFORE SERVICING COULD RESULT IN SEVERE PERSONAL INJURY.



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Field Wiring - Air-Cooled Helical Rotary Water Chillers
Item: A1 Qty: 1 Tag(s): 155 ton

FIELD WIRING PAGE 2 OF 3

WARNING
HAZARDOUS VOLTAGE!

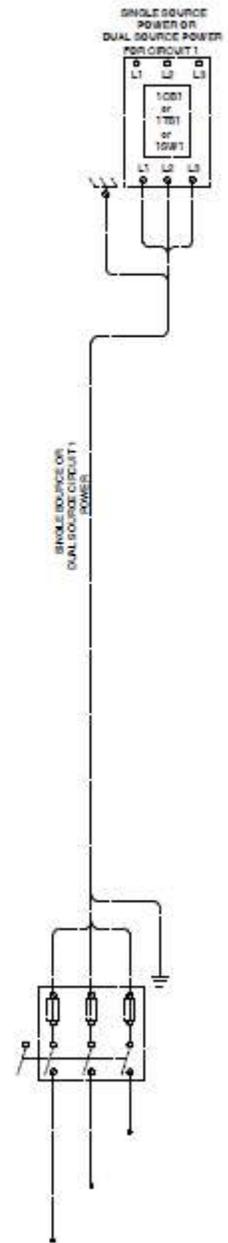
DISCONNECT ALL ELECTRIC POWER
 INCLUDING HAZARDOUS DISCONNECTS
 AND FOLLOW LOCKOUT AND TAG
 PROCEDURES FOR SAFETY.
 REMAIN THAT ALL MOTOR
 CONNECTIONS ARE DISCONNECTED
 FROM VOLTAGE UNLESS WITH
 VARIABLE SPEED DRIVE. REFER
 TO DRIVE INSTRUCTIONS FOR
 CAPACITOR DISCHARGE.

FAILURE TO DO THE ABOVE
 BEFORE SERVICING COULD RESULT
 IN DEATH OR SERIOUS INJURY.

CONTROL PANEL

CAUTION

USE COPPER CONDUCTORS ONLY.
 UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT
 OTHER TYPES OF CONDUCTORS.
 FAILURE TO DO SO MAY CAUSE DAMAGE TO THE
 EQUIPMENT.



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Field Wiring - Air-Cooled Helical Rotary Water Chillers

Item: A1 Qty: 1 Tag(s): 155 ton

FIELD WIRING PAGE 3 OF 3

| CUSTOMER WIRE SELECTION TABLE | | SHORT CIRCUIT WITHSTAND RATING |
|--|--|--------------------------------|
| POWER WIRE SELECTION TO CIRCUIT BREAKER (1CB1) | | 65000.00 A |
| UNIT SIZE 155 | LUG WIRE SIZE RANGE (PER PHASE) | |
| UNIT VOLTAGE 460A | CIRC 1 & 2 (SNGL PT PWR) | |
| | (2 MAX CONDUCTORS PER PHASE) 2/0 AWG-500MCM | |
| MIN AND MAX LUG WIRE SIZES MAY CHANGE SLIGHTLY. CONTACT YOUR SALES OFFICE TO CONFIRM THE OFFERING. | | |

GENERAL NOTES:

1. CAUTION-DO NOT ENERGIZE THE UNIT UNTIL CHECK OUT 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 TO THE UNIT.
4. THE FOLLOWING FEATURES ARE OPTIONAL AND MAY OR MAY NOT BE PROVIDED. CUSTOMER PROVIDED WIRING FOR ALL STANDARD FEATURES AND OPTIONS IS SHOWN ON THIS DIAGRAM. OPTIONAL FEATURES ARE SO NOTED.
 - LOW VOLTAGE OPTIONS (CLASS 2)
 - TRACER COMMUNICATION INTERFACE
 - ICE MAKING START/STOP
 - EXTERNAL CURRENT LIMIT AND EXTERNAL CHILLED WATER SETPOINT
 - 115 VOLT OPTIONS FOR 60HZ, OR 220 VOLT OPTIONS FOR 50HZ.
 - ICE MAKING STATUS
 - UNIT OPERATING STATUS MODULE
 - EVAPORATOR HEATER (FREEZE PROTECTION). STANDARD WITH UNIT MOUNTED EVAPORATOR. NOT USED WITH REMOTE EVAPORATOR OPTION.
 - CONVENIENCE OUTLET IS AVAILABLE ONLY ON 60HZ UNITS.
19. LINE VOLTAGE OPTIONS
 - SINGLE OR DUAL SOURCE POWER MAY BE SPECIFIED. THIS DRAWING COVERS THE DUAL SOURCE POWER OPTION. WHEN SINGLE SOURCE POWER IS SPECIFIED ADDITIONAL HARDWARE IS PROVIDED FOR FIELD POWER WIRING. DWG 2309-1382

WIRING REQUIREMENTS

5. RECOMMENDED FIELD WIRING CONNECTIONS ARE SHOWN BY DOTTED LINES
6. ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND STATE AND LOCAL REQUIREMENTS. EXPORT UNIT WIRING MUST COMPLY WITH LOCAL APPLICABLE CODES.
7. ALL UNIT POWER WIRING MUST BE COPPER CONDUCTORS ONLY AND HAVE A MINIMUM TEMPERATURE INSULATION RATING OF 90 DEGREE C. SEE UNIT NAMEPLATE FOR MINIMUM CIRCUIT AMPACITY AND MAXIMUM FUSE SIZE REQUIREMENTS. THE POWER WIRING LUG SIZE PROVIDED ON THE VARIOUS UNITS IS SHOWN ON DRAWING 2309-1385.
9. 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. THE HEAT TAPE AND/OR CONVENIENCE OUTLET AND THE GROUND SIDE OF THE FLOW SWITCH GO TO TERMINAL STRIPS WITH A #10 SET SCREW WHICH WILL ACCEPT RING OR FORK TERMINALS OR STRIPPED WIRE LEADS.
10. DO NOT RUN LOW VOLTAGE CONTROL WIRING (80 VOLTS OR LESS) IN CONDUIT WITH 110 VOLT OR HIGHER WIRING. DO NOT EXCEED THE FOLLOWING MAXIMUM RUN LENGTHS FOR A GIVEN SIZE: 14 AWG, 5000 FT; 16 AWG, 2000 FT; 18 AWG, 1000FT
11. SHIELDED TWISTED PAIR LEADS ARE REQUIRED FOR CONNECTIONS TO THE COMMUNICATIONS INTERFACE MODULE (1U8). THE SHIELD SHOULD BE GROUNDED AT THE RTAC CONTROL PANEL END.
12. THE CONTACTS FOR THESE FEATURES ARE JUMPED AT THE FACTORY BY JUMPERS W1 & W2 TO ENABLE UNIT OPERATION. IF REMOTE CONTROL IS DESIRED REMOVE THE JUMPERS AND CONNECT TO THE DESIRED CONTROL CIRCUIT.
13. AS SHIPPED THE NORMAL 400 VOLT UNIT CONTROL POWER TRANSFORMERS ARE WIRED ON THE 400 VOLT TAP (H3). TRANSFORMER LEADS 126A & 126B SHOULD BE RECONNECTED TO THE APPROPRIATE TAP FOR THE 380 (H2) OR 415 (H4) VOLT POWER SUPPLIES.
14. GROUND ALL CUSTOMER PROVIDED 115 VOLT POWER SUPPLIES AS REQUIRED BY CODES. GREEN GROUND SCREWS ARE PROVIDED IN THE UNIT CONTROL PANEL.

CONTACT RATINGS AND REQUIREMENTS

15. UNIT PROVIDED DRY CONTACTS FOR THE EVAPORATOR PUMP CONTROL, THE UNIT OPERATING STATUS RELAYS & THE ICE MAKING STATUS RELAY (1U10, 1U12, & 1U13) ARE RATED FOR 7.2 AMPS RESISTIVE, 2.88 AMPS PILOT DUTY, OR 1/3 HP, 7.2 FLA AT 120 VOLTS 60 HZ. CONTACTS ARE RATED FOR 5 AMPS GENERAL PURPOSE DUTY AT 240 VOLTS. THE MAX FUSE SIZE FOR ANY OF THESE CIRCUITS IS 15 AMPS.
16. CUSTOMER SUPPLIED CONTACTS FOR ALL LOW VOLTAGE CONNECTIONS MUST BE COMPATIBLE WITH DRY CIRCUIT 24 VOLTS DC FOR A 12 MA RESISTIVE LOAD. SILVER OR GOLD PLATED CONTACTS ARE RECOMMENDED.
17. THE FIELD PROVIDED INDICATORS MAY BE RELAYS (AS SHOWN), LIGHTS OR AUDIBLE DEVICES. FOUR DUPLICATE FUNCTIONS ARE SHOWN. THE DUPLICATE FUNCTIONS MAY BE CONNECTED TO EITHER OR BOTH OF THE NORMALLY OPEN OR NORMALLY CLOSED RELAY CONTACTS OF EACH OF THE 4 SPDT RELAYS ON THE OPTIONAL UNIT OPERATING STATUS MODULE.
 - THE FUNCTIONS OF THE OPERATING STATUS MODULE RELAYS ARE PROGRAMMABLE. DEFAULT FUNCTIONS ARE SHOWN. SEE IOM FOR DETAILS.
18. SINGLE SOURCE POWER IS PROVIDED AS STANDARD. DUAL SOURCE POWER IS AVAILABLE AS AN OPTION. COMPONENTS 1CB2, 1TB2 & 1SW2 ARE PROVIDED ONLY WITH THE DUAL SOURCE POWER OPTION. (INSET A) REQUIRED PHASING IS SHOWN.
22. OPTIONAL COMPONENT - CHECK MODEL NUMBER TO DETERMINE IF USED OR NOT.
23. WIRING FOR CUSTOMER SUPPLIED REMOTE EVAPORATOR.

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