



Model: ACWC-720-GC-ST¹-__²-__³-__⁴

Description:

Five stage air-cooled water chiller system. System capacity indicated on table is the approximate BTU/hr based on a leaving fluid temperature of 50°F with an ambient air temperature of 95°F.

| CAPACITY | | 720,000 BTU /HR | | | | | |
|--------------------------------|--------------|---------------------------------|------|--------------|-----|-------|------|
| ±5% AT 50° LCWT / 95°F AMBIENT | | | | | | | |
| COMPRESSOR / REFRIGERANT | | (5) HERMETIC SCROLLS / R410A | | | | | |
| CONDENSER FANS / AIRFLOW | | 4 / 41,800 CFM | | | | | |
| CONDENSER COILS TYPE | | MICROCHANNEL | | | | | |
| EVAPORATOR TYPE | | STAINLESS STEEL / COPPER BRAZED | | | | | |
| FLUID CONNECTIONS | | 3" 150# FLANGE (IN/OUT) | | | | | |
| ELECTRICAL: | V - Ø - HZ | COMP RLA / LRA (ea) | | FAN FLA (ea) | | MCA | MOCP |
| - 5 | 230 - 3 - 60 | A1/A2 | 55.8 | 340 | 6.6 | 296.3 | 350 |
| | | B1-B3 | 48.1 | 245 | | | |
| - 6 | 460 - 3 - 60 | A1/A2 | 26.9 | 179 | 3.3 | 129.5 | 150 |
| | | B1-B3 | 18.6 | 179 | | | |
| DIMENSIONS | | 111" L x 88 ¼" W x 73" H | | | | | |
| WEIGHT (APPROX.) | | 2650 LBS | | | | | |

Note: All specifications subject to change without notice. Specify voltage and ambient condition upon ordering.
MCA: Minimum circuit amps per UL 1995. MOCP: Maximum overcurrent protective device per UL 1995.

STANDARD FEATURES:

- **Controls:** Electronic programmed temperature controller with constant (set point & process) temperature readout.
- **Refrigeration Components:** Efficient scroll compressors, sight glass/moisture indicators, balanced port expansion valves, filter drier, pump down valves, fan cycling head pressure controls.
- **Process Fluid Components:** PVC "Y" strainer with 20 mesh stainless steel screen.
- **Safety Controls:** High and low refrigerant pressure, high and low fluid temperature, freeze, low water flow, internal overloads, thermal overload circuit breakers and/or safety fuses for compressors and fan motors, temperature relief fusible plug on liquid lines of each circuit.
- **Construction:** Galvanized steel frame, powder coated carbon steel cabinet, PVC flange connections.
- **Warranty:** One year parts / five year compressor.

SUITABLE AMBIENT CONDITIONS/FEATURES:

- **IND:** Indoor use only.
- **40:** Suitable for outdoor use with an ambient of 40°F ambient.
- **0:** Suitable for outdoor use to 0°F ambient. Includes Low ambient fan speed controls with (LT) models.
- **M20:** Suitable for outdoor use to -20°F ambient. Includes Low ambient fan speed controls.

¹ Flow Design (__=Portable, ST=Stationary, RF=Reverse Flow, EXCH=Extra Heat Exchanger, DP=Dual Pump, DR=Dual Return)

² Leaving Fluid Temperature (__=Standard, LT=Low Temperature-specify lowest temperature in °F)

³ Ambient Temperature Conditions (see above)

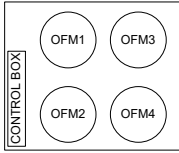
⁴ Electrical Power Code (see above)



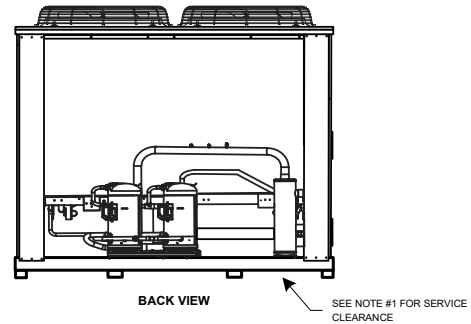
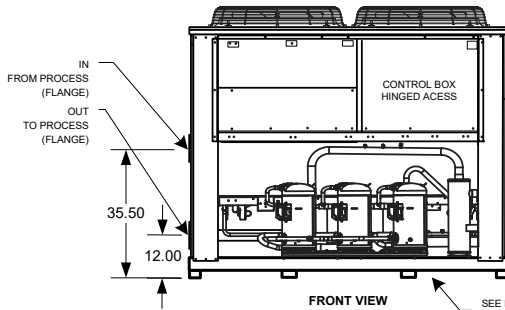
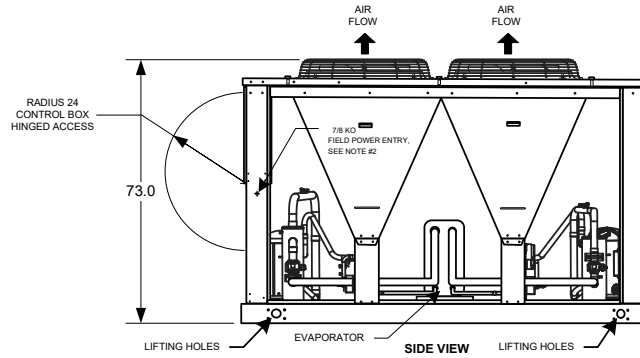
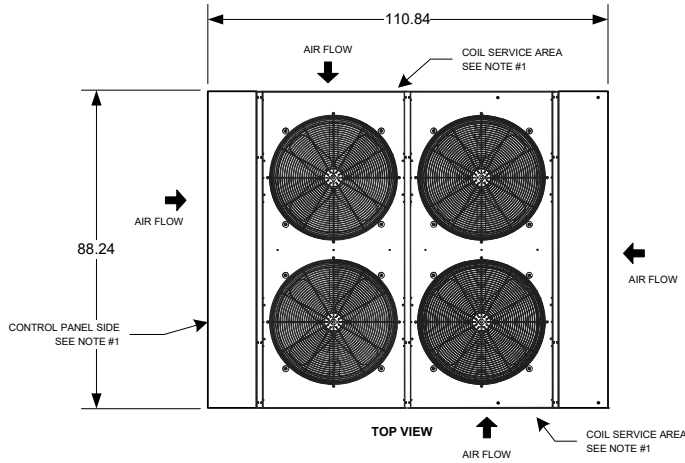
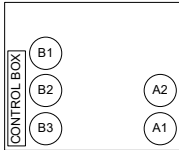
TECHNICAL SPECIFICATION

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Outdoor Fan Layout
Top View



Compressor Layout
Dual Circuit - Top View



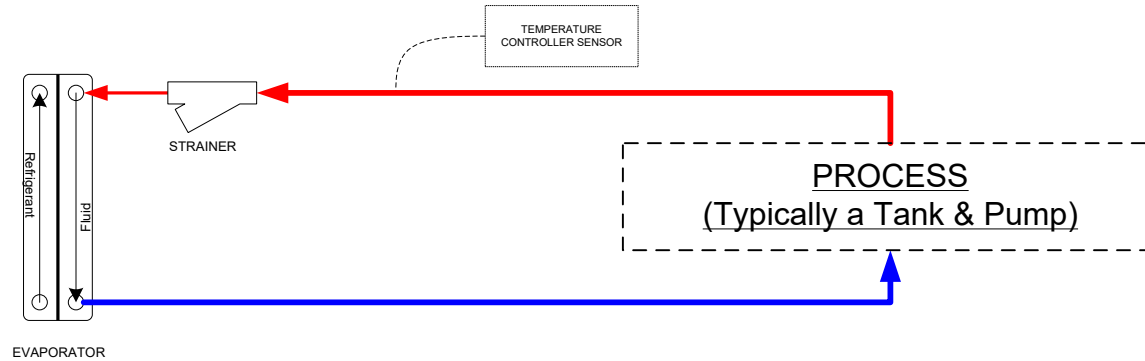
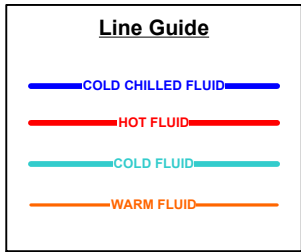
PAGE NOTES

- Unit must have minimum clearances for air flow/service access as follows: (air must be directed away from machine to prevent re-circulating air back into machine coil sides.)
 Top — Do not restrict in any way over condenser fan area.
 Panel End — 4 ft per NEC.
 Sides and End — 6 ft from solid surface for airflow.
 Side — 8 ft required for coil service area.
- Field power supply connection: two 7/8 pilot holes provided. Actual hole required depend on field wire sizing.
- Temperature relief device located on suction line, liquid line and filter drier of each circuit are equipped with a 1/4" flare field connection.
- All chilled fluid piping should be insulated.
- Dimensions are in inches unless otherwise specified.
- Design and layout may change depending on parts or manufacturing without notice. Notify Cold Shot Chillers for any details needed based on construction.
- Contact Cold Shot Chillers for details or other information.
- Lifting:
 - System can be rigged with a crane. Approximate weights noted. See lifting points on diagram below located on each side of chiller.
 - Not recommended for lifting with a forklift.

| | | | | | |
|-----------------------------|-------------|-------|--|---|---------|
| <h2>COLD SHOT CHILLERS</h2> | | SIZE | DIMENSION NOTES | DWG NO | REV |
| | | A | Dimensions are in inches unless otherwise specified. +/-1/4" | INSTALLATION DRAWING ACWC-720-GC (Typical - Front-Back-Top-Side) | 1 |
| DRAWN | ENGINEERING | SCALE | NONE | DWG-INST_-720-GC-ST_-(0520) .vsd | SHEET 1 |
| ISSUED | 5/21/2020 | | | | |



STATIONARY (ST)



NOTES

- All designs are subject to change without notice.
- The diagrams are to be used as a basic flow diagram only.
- Color Code is for relative temperature comparison.
- Additional components may be included.
- Evaporator may be located in tank.

| | | | | | | |
|---------------------------|-------------|-------|-------------|--|-------|---------------------|
| COLD SHOT CHILLERS | | SIZE | DESCRIPTION | REV | | |
| | | A | | Typical FLOW OPTIONS for Chiller Circuits | 1 | |
| DRAWN | ENGINEERING | SCALE | NONE | DWG-CKT_ChillerCircuitFlowOptions-Typical_(0520).vsd | SHEET | 5 / Stationary (ST) |
| ISSUED | 5/2020 | | | | | |