



Model: ACWC-840-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 ±5% AT 50° LCWT / 95°F AMBIENT		840,000 BTU /HR					
COMPRESSOR / REFRIGERANT		(5) HERMETIC SCROLLS / R410A					
CONDENSER FANS / AIRFLOW		5 / 51,250 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	326.0	350
		B1-B3	55.8	340			
- 6	460 - 3 - 60	A1/A2	26.9	179	3.3	157.7	175
		B1-B3	26.9	179			
DIMENSIONS		151 1/8" L x 88 ¼" W x 73" H					
WEIGHT (APPROX.)		2900 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)

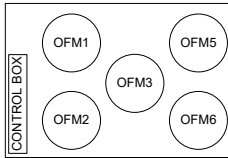
⁴ Electrical Power Code (see above)



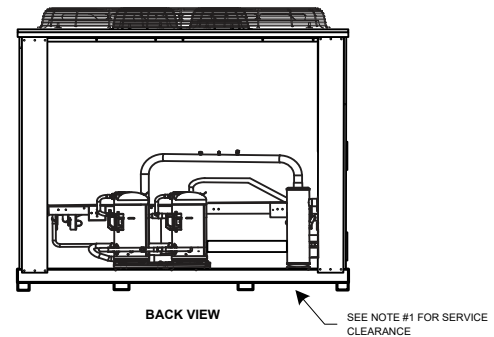
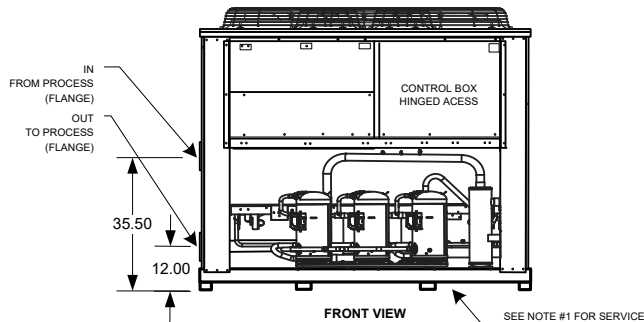
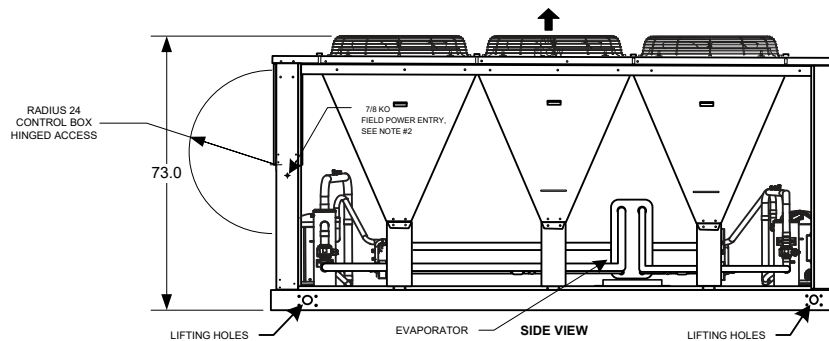
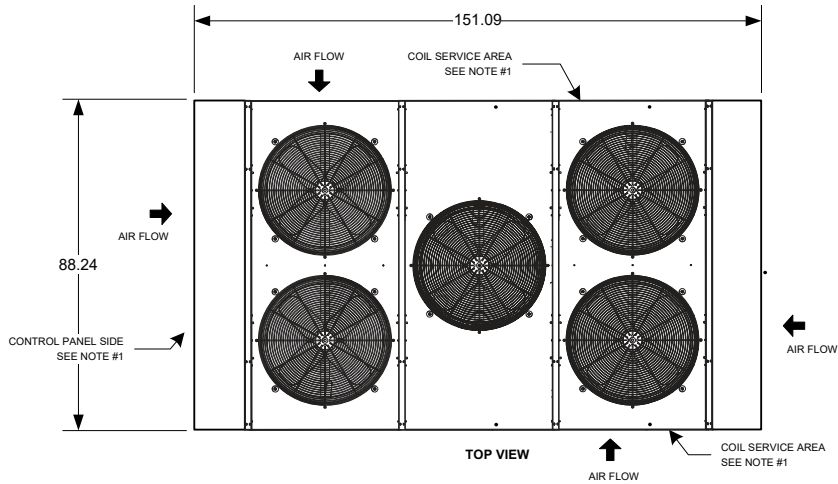
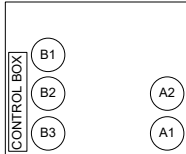
TECHNICAL SPECIFICATION

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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:
 - a. System can be rigged with a crane. Approximate weights noted.
 - b. See lifting points on diagram below located on each side of chiller.
 - c. Not recommended for lifting with a forklift.

COLD SHOT CHILLERS

DRAWN ENGINEERING

ISSUED 5/21/2020

SIZE

A

DIMENSION NOTES

Dimensions are in inches unless otherwise specified. +/-1/4"

SCALE NONE

DWG NO

INSTALLATION DRAWING
ACWC-840-GC (Typical - Front-Back-Top-Side)

DWG-INST_-840-GC-ST_-(0520) .vsd

SHEET

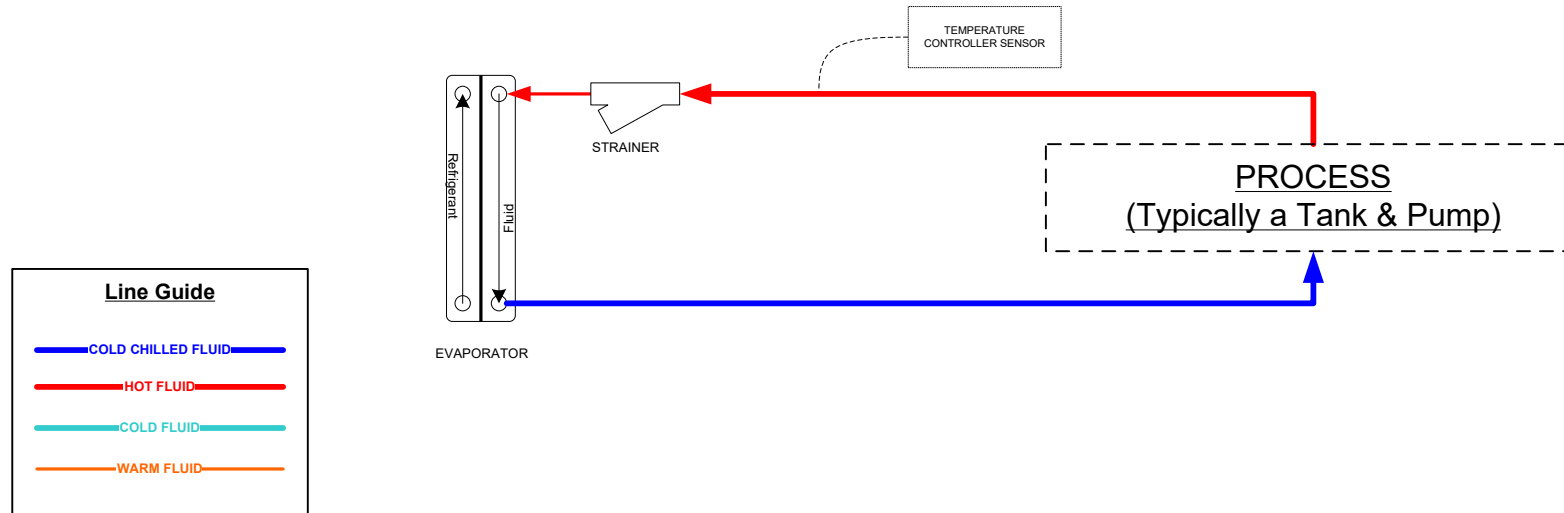
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REV

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STATIONARY (ST)



COLD SHOT CHILLERS

DRAWN

ENGINEERING

ISSUED

5/2020

SIZE

A

SCALE

NONE

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.

DESCRIPTION

Typical FLOW OPTIONS for Chiller Circuits

REV

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DWG-CKT_ChillerCircuitFlowOptions-Typical_(0520).vsd

SHEET

5 / Stationary (ST)