



Model: ACWC-1080-GC-DP¹-__²-__³-__⁴

Description:

Six stage air-cooled portable water chiller system. Dual pump model includes one recirculating pump for the chiller circuit and a second pump dedicated for the process circuit. Process pump indicated on table is typical, with options available for different capacity. 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		1080,000 BTU /HR						
COMPRESSOR / REFRIGERANT		(6) HERMETIC SCROLLS / R410A						
CONDENSER FANS / AIRFLOW		6 / 61,500 CFM						
CONDENSER COILS TYPE		MICROCHANNEL						
EVAPORATOR TYPE		STAINLESS STEEL / COPPER BRAZED						
FLUID CONNECTIONS		4" 150# FLANGE (IN/OUT)						
ELECTRICAL:	V - Ø - HZ	COMP RLA / LRA (ea)		FAN FLA (ea)	(No*) PUMP FLA	MCA	MOCP	
- 5	230 - 3 - 60	A1-A3	55.8	340	6.6	(1) 17.5 (2) 17.5	423.4	450
		B1-B3	55.8	340				
- 6	460 - 3 - 60	A1-A3	26.9	179	3.3	(1) 8.7 (2) 8.7	205.3	225
		B1-B3	26.9	179				
CHILLER PUMP HP / OUTPUT (1)		7.5 HP / 225 GPM @ 35 PSI						
PROCESS PUMP HP / OUTPUT (2)		7.5 HP / 225 GPM @ 35 PSI						
TANK SIZE / CONSTRUCTION		625 GALLON / HIGH-DENSITY POLYETHYLENE						
DIMENSIONS		247" L x 88 ¼" W x 73" H						
WEIGHT (APPROX.)		4600 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. Pumps are stainless steel centrifugal. Tanks are insulated with fluid level sensor, spin on lid and drain. Portable systems will include a flow control valve.
- **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, pumps, 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)

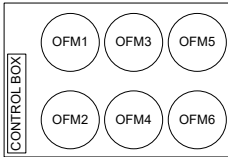
⁴ Electrical Power Code (see above)



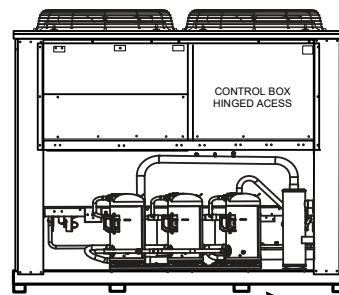
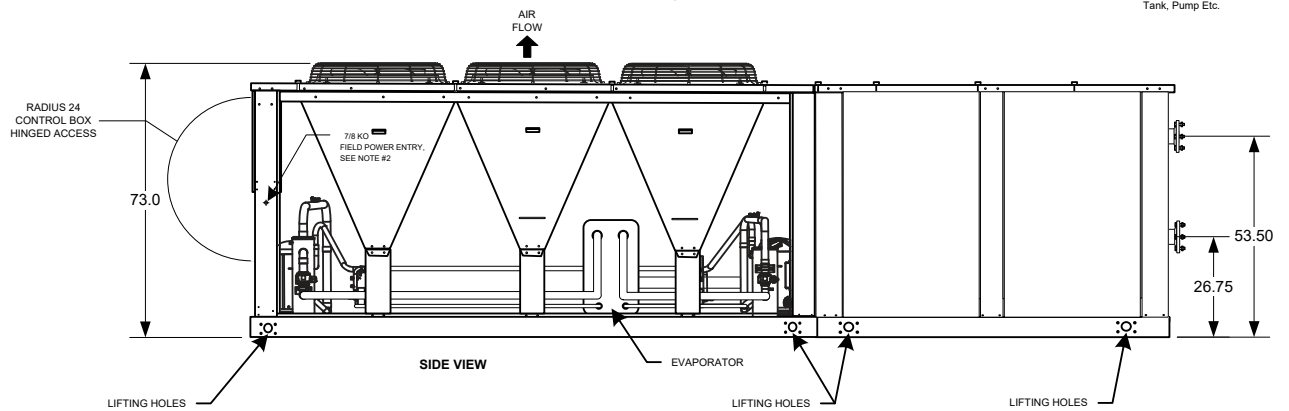
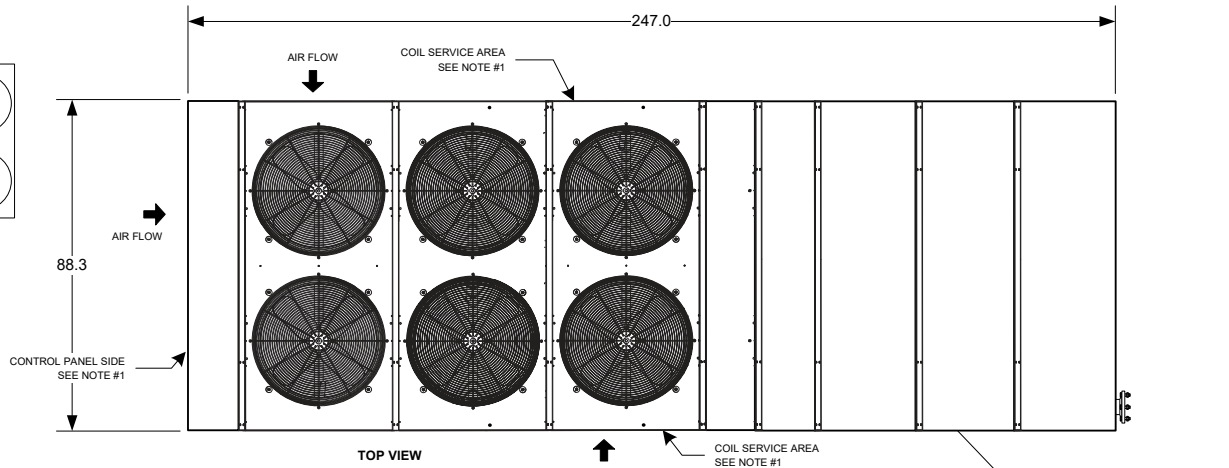
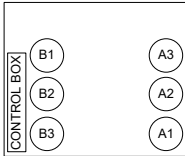
TECHNICAL SPECIFICATION

WWW.WATERCHILLERS.COM

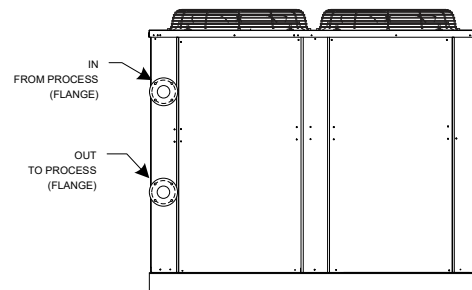
Outdoor Fan Layout
Top View



Compressor Layout
Dual Circuit - Top View



FRONT VIEW
SEE NOTE #1 FOR SERVICE CLEARANCE



BACK 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.

COLD SHOT CHILLERS

DRAWN ENGINEERING

ISSUED 6/11/2020

SIZE

A

DIMENSION NOTES

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

SCALE NONE

DWG NO

INSTALLATION DRAWING
ACWC-1080-GC (Typical - Front-Back-Top-Side)

DWG-INST_-1080-GC-DP-_(0620) .vsd

REV

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SHEET

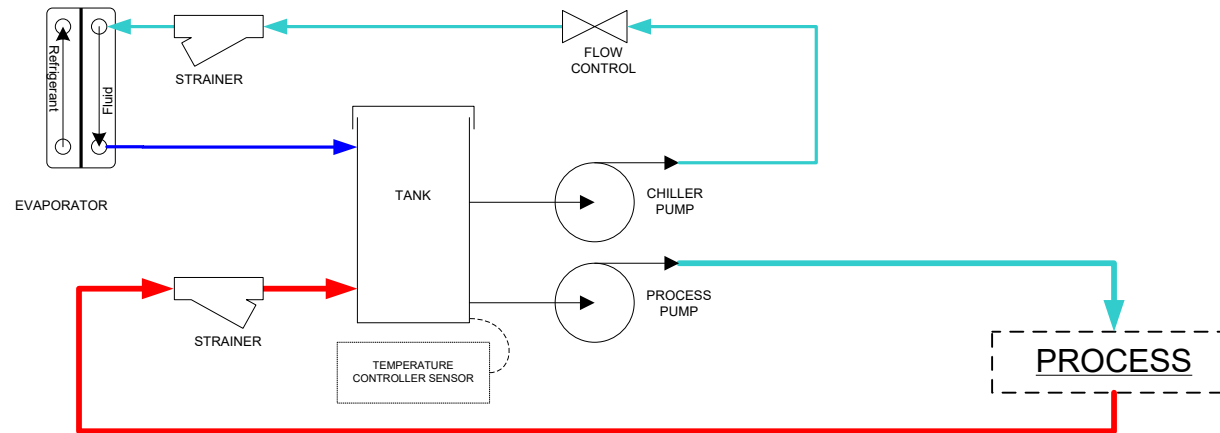
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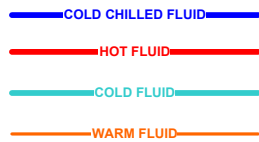
TECHNICAL SPECIFICATION

WWW.WATERCHILLERS.COM

DUAL PUMP (DP)



Line Guide



COLD SHOT CHILLERS

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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.

SIZE

A

SCALE NONE

DESCRIPTION

Typical FLOW OPTIONS for Chiller Circuits

REV

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DWG-CKT_ChillerCircuitFlowOptions-Typical_(0520).vsd

SHEET 6 / Dual Pump (DP)