Cold Shot Chillers

"ECONOMICALLY PRICED DEPENDABILITY"

TECHNICAL SPECIFICATION

Model: ACWC-720-GC-DP[1]-__[2]-__[3]-__[4]

Description:
Five stage portable air-cooled 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		**720,000 BTU/HR**						
COMPRESSORS / REFRIGERANT		(5) ROTARY SCROLLS / PURON R-410A						
CONDENSER FANS / AIRFLOW		4 / 41,800 CFM						
CONDENSER COILS TYPE		MICROCHANNEL HEAT EXCHANGER						
EVAPORATOR TYPE		STAINLESS STEEL / COPPER BRAZED PLATE						
FLUID CONNECTIONS		3" 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/A2 55.8	340	6.6	(1) 17.5	(2) 17.5	331.2	350
		B1-B3 48.1	245					
- 6	**460 - 3 - 60**	A1/A2 26.9	179	3.3	(1) 8.7	(2) 8.7	146.9	150
		B1-B3 18.6	125					
CHILLER PUMP HP / OUTPUT (1)		7.5 HP / 260 GPM @ 35 PSI						
PROCESS PUMP HP / OUTPUT (2)		7.5 HP / 260 GPM @ 35 PSI						
TANK SIZE / CONSTRUCTION		625 GALLON / HIGH-DENSITY POLYETHYLENE						
DIMENSIONS (APPROX.)		207" L x 88.3" W x 73" H						
WEIGHT (APPROX.)		3000 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:** Scroll compressors, sight glass/moisture indicators, balanced port expansion valves, filter driers, pump down valves, fan cycling head pressure controls.
- **Process Fluid Components:** PVC "Y" strainer with 20 mesh stainless steel screen is standard. Pumps are stainless steel centrifugal. Tanks are insulated with liquid level sight tube and spin on lid. Portable systems may include a bypass flow 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.
- **Warranty:** One year parts / five year compressor.

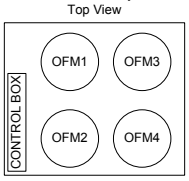
SUITABLE AMBIENT CONDITIONS/FEATURES:

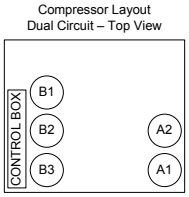
- **IND:** Indoor use only.
- **40:** Suitable for outdoor use with an ambient of 40°F ambient.
- **0:** Suitable for outdoor use to 0°F ambient. Includes low ambient fan speed controls.
- **M20:** Suitable for outdoor use to -20°F ambient. Includes with low ambient fan speed controls.

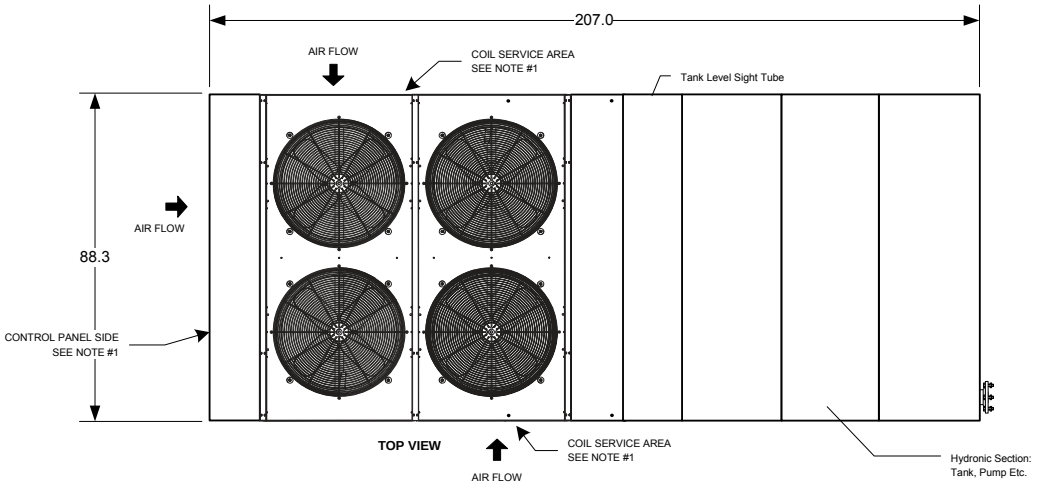
[1] Flow Design (_=Portable, ST=Stationary, RF=Reverse Flow, EXCH=Extra Heat Exchanger, DP=Dual Pump, DR=Dual Return)
[2] Leaving Fluid Temperature (_=Standard, LT=Low Temperature-specify lowest temperature in °F)
[3] Ambient Temperature Conditions (see above)
[4] Electrical Power Code (see above)

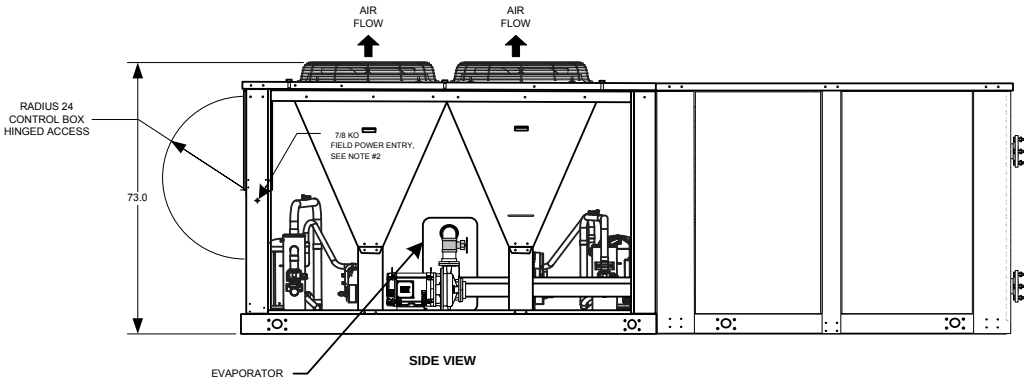
PAGE NOTES

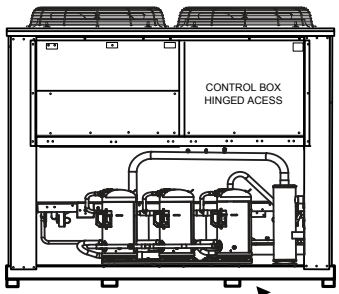
1. Unit must have clearances for air flow/service access as follows: (air must be directed away from machine to prevent re-circulating air back into machine coil sides.)
   Top — Do not restrict in any way over condenser fan area.
   Sides and End — 6 ft from solid surface for airflow.
   Side — 8 ft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

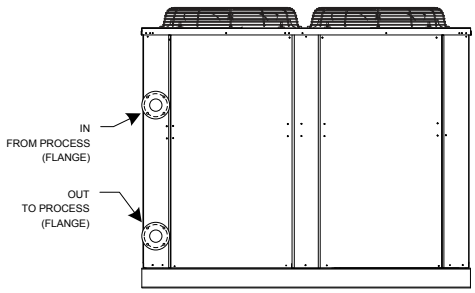






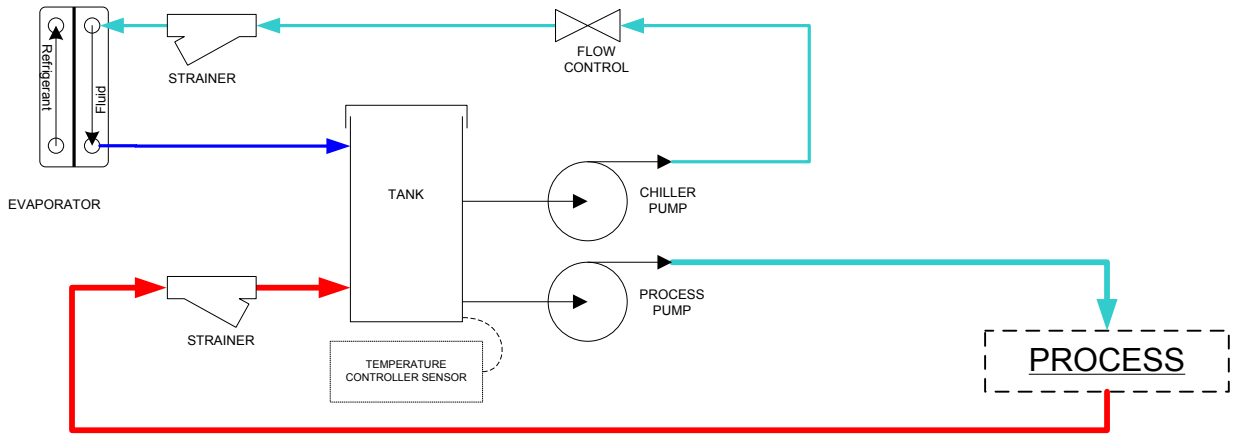






COLD SHOT CHILLERS		SIZE	DIMENSION NOTES	DWG NO / REV
		A	Dimensions are in inches unless otherwise specified.	**INSTALLATION DRAWING** **ACWC-720-GC (Typical - Front-Back-Top-Side)** / 1
DRAWN	ENGINEERING			
ISSUED	6/12/2018	SCALE	NONE	DWG-INST_-720-GC-DP-_(0618) .vsd / SHEET 1

DUAL PUMP (DP)



Line Guide

- COLD CHILLED FLUID
- HOT FLUID
- COLD FLUID
- WARM FLUID

COLD SHOT CHILLERS

DRAWN	ENGINEERING	SIZE: A	DESCRIPTION: **Typical FLOW OPTIONS for Chiller Circuits**
ISSUED	6/21/2018	SCALE: NTS	REV: 1

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.

DWG-CKT_ChillerCircuitFlowOptions-Typical_062218.vsd

SHEET: 6 / Dual Pump (DP)