

Cold Shot Chillers

"ECONOMICALLY PRICED DEPENDABILITY"



TECHNICAL SPECIFICATION

Model: ACWC-960-G-DP¹-__²-__³-__⁴

Description:

Six 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		960,000 BTU /HR					
±5% AT 50° LCWT / 95°F AMBIENT							
COMPRESSOR / REFRIGERANT		(6) ROTARY SCROLLS / PURON R-410A					
CONDENSER FANS / AIRFLOW		6 / 58,200 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.)	PUMP FLA	MCA	
- 5	230 - 3 - 60	A1-A3	51.3	300	6.0	(1) 17.5 (2) 17.5	406.2
		B1-B3	55.8	340			
- 6	460 - 3 - 60	A1-A3	23.1	150	2.9	(1) 8.7 (2) 8.7	191.5
		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 (APPROX.)		20' 6" L x 7' 4" W x 6' 5" 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

STANDARD FEATURES:

- **Controls:** Electronic temperature controller with scrolling display LED readout.
- **Refrigeration Components:** Scroll compressors, sight glass/moisture indicators, electronic expansion valves, filter drier, pump down valves, fan cycling head pressure controls.
- **Process Fluid Components:** A 40-mesh strainer with blow down valve 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/low pressure safety, freeze, low water flow, internal overloads, thermal overloads 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 with (LT) models.
- **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)

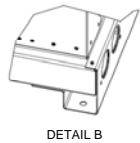
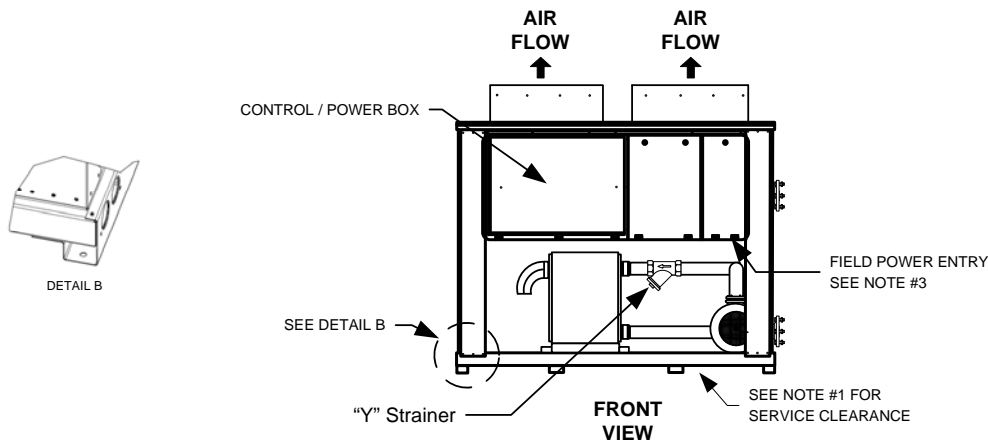
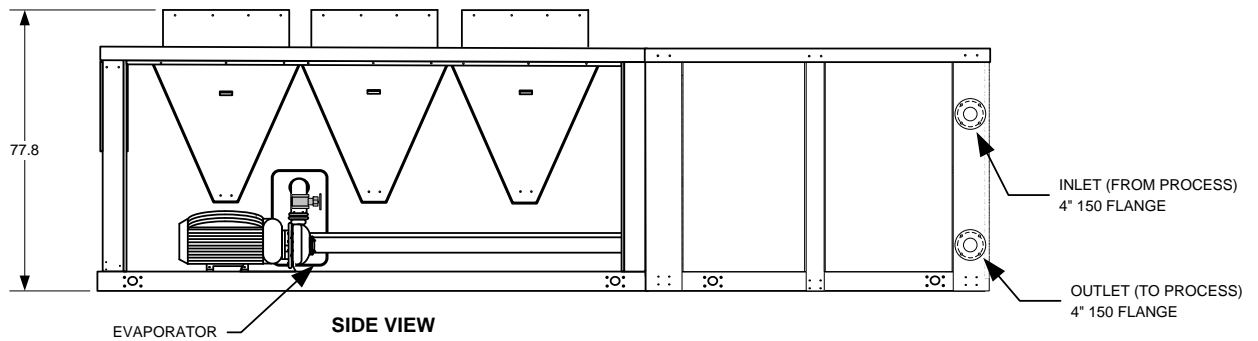
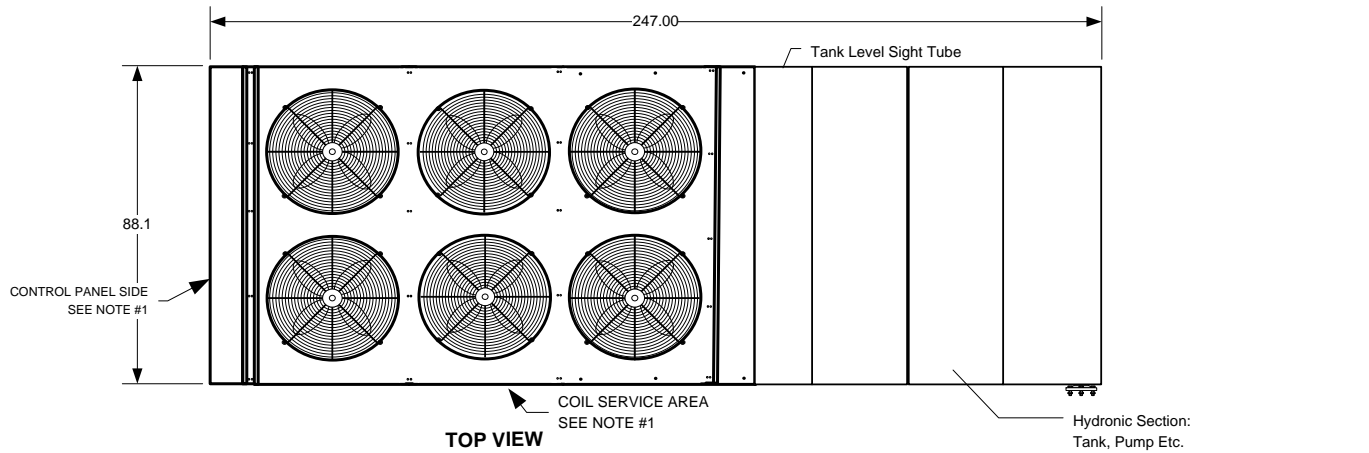
³ Ambient Temperature Conditions (see above)

⁴ Electrical Power Code (see above)

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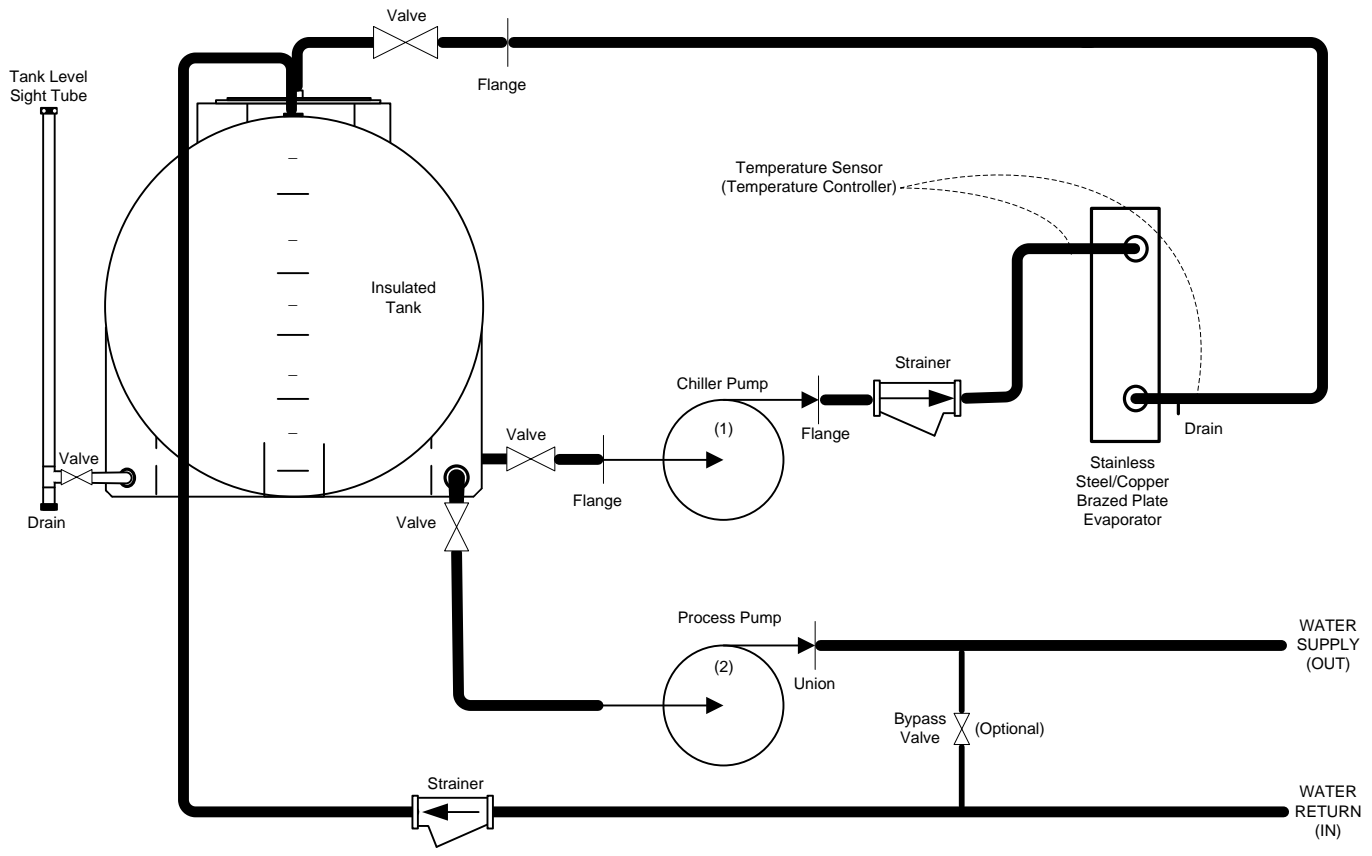


PAGE NOTES

- Unit must have clearances for air flow/service access as follows: (air must be directed away from machine to prevent recirculating air back into machine coil sides.)
Top — Do not restrict in any way.
Sides and End — 6 ft from solid surface for airflow.
Side — 8 ft required for coil service area.
- Mounting holes (17/32" Diameter) may be used to mount unit to concrete pad. They are not recommended for mounting unit to spring isolators. If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.
- Field Power Supply Connection: two 7/8 pilot holes provided. Actual hole required depend on field wire sizing.
- Relief valves 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 +/- 1/4".
- 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.

COLD SHOT CHILLERS

DRAWN		ENGINEERING	SIZE	A	DIMENSION NOTES	DWG NO		REV
ISSUED		6/1/2017	SCALE	N.T.S.	Dimensions are in inches unless otherwise specified.	INSTALLATION DRAWING ACWC-960-G (Typical - Front-Top-Side)		1
			DWG-INST_-960-G-DP-(0617_RAP)-LowSound (2).vsd		SHEET		1	



NOTES

- Design and specifications subject to change without notice.
- Layout is not for engineering purposes.
- Flow Switch typical on 50 through 100 ton units.

COLD SHOT CHILLERS

DRAWN ENGINEERING

ISSUED 11/30/2016

SIZE A SCOPE Flow Diagram_G-DP

SCALE NA

DWG NO CHILL WATER CIRCUIT – TYPICAL

Large Chiller G-DP “Portable with Flow Switch”

DWG-CHW_G_G-DP (1116).vsd SHEET 1

REV 1