Cold Shot Chillers

"ECONOMICALLY PRICED DEPENDABILITY"

TECHNICAL SPECIFICATION

Model: ACWC-480-GC-EXCH[1]-__[2]-__[3]-__[4]

Description:
Three stage portable air-cooled water chiller system with additional process system heat exchanger. 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		**480,000 BTU /HR**					
COMPRESSOR / REFRIGERANT		(3) ROTARY SCROLLS / PURON R-410A					
CONDENSER FANS / AIRFLOW		3 / 32,000 CFM					
CONDENSER COILS TYPE		MICROCHANNEL					
EVAPORATOR TYPE		STAINLESS STEEL / COPPER BRAZED					
HEAT EXCHANGER TYPE		STAINLESS STEEL / COPPER BRAZED					
FLUID CONNECTIONS		2" MNPT (IN/OUT)					
ELECTRICAL:	**V - Ø - HZ**	COMP RLA / LRA (ea)		FAN FLA (ea)	PUMP FLA	MCA	MOCP
- 5	**230 - 3 - 60**	51.3	300	6.6	12.2	198.7	250
- 6	**460 - 3 - 60**	23.1	150	3.3	6.1	91.1	110
CHILLER PUMP HP / OUTPUT		5.0 HP / 135 GPM @ 30 PSI					
TANK SIZE / CONSTRUCTION		220 GALLON / 304 STAINLESS STEEL TANK WITH LID					
DIMENSIONS (APPROX.)		92.2" L x 88.3" W x 73" H					
WEIGHT (APPROX.)		3200 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:** Heat exchanger for separation of chilled fluid circuit from process fluid circuit. Bronze "Y" strainer with 20 mesh stainless steel screen. Pumps are stainless steel centrifugal. Tanks are insulated with shoe box lid, fill port, and level sight glass.
- **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, copper piping connections.
- **Warranty:** One year parts / five year compressor.

SUITABLE AMBIENT CONDITIONS/FEATURES:

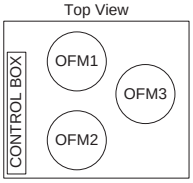
- **IND:** Indoor use only.
- **40:** Suitable for outdoor use with an ambient of 40°F ambient.
- **0:** Suitable for outdoor use to 0°F ambient. Includes low ambient fan speed controls with (LT) models.
- **M20:** Suitable for outdoor use to -20°F ambient. Includes with low ambient fan speed controls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

[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)

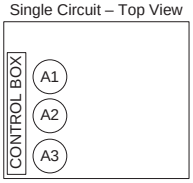
NOTES:

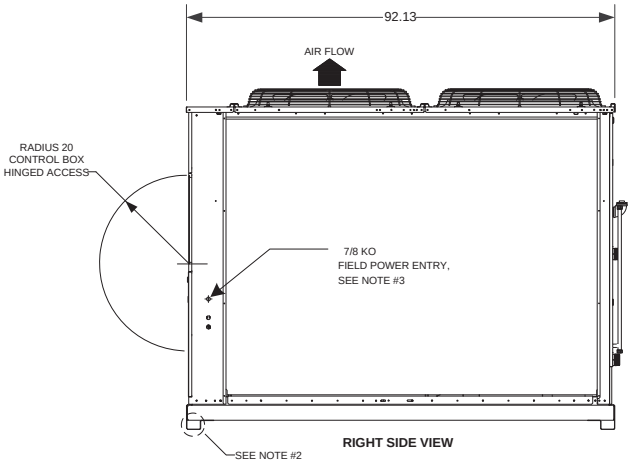
1. Unit must have clearances for air flow/service access as follows: (air must be directed away from machine to prevent re-circulating air back into machine coil sides.)
   Top — Do not restrict.
   Coil End — 42 in. from solid surface for airflow.
   Panel Side — 48 in. per NEC (National Electrical Code).
2. Mounting holes (17/32" Diameter) may be used to mount unit to concrete pad. They are not recommended for mounting unit to spring isolators.
3. A 7/8 in. diameter hole is provided for locating field power wiring. Actual hole size required depends on field wire sizing.
4. Temperature relief device located on suction line, liquid line of each circuit are equipped with a 1/4" flare field connection. Do not cap or otherwise obstruct temperature relief device.
5 All chilled fluid piping should be insulated.
6. Dimensions are in inches unless otherwise specified.
7. Unit can be handled using the fork truck lift pockets.
8. Design and layout may change depending on parts or manufacturing without notice.
9. Contact Cold Shot Chillers for details or other information.

Outdoor Fan Layout
Top View

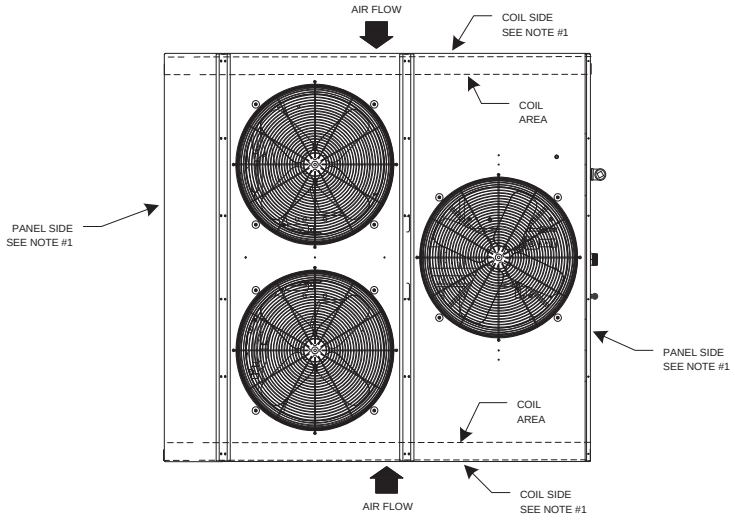


Compressor Layout
Single Circuit – Top View

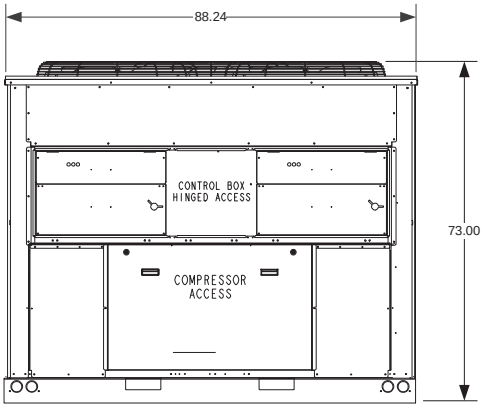




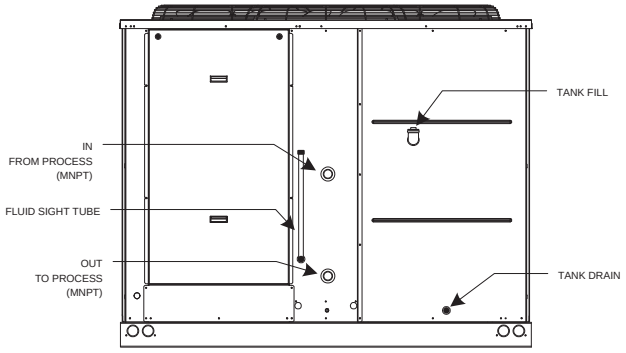
RIGHT SIDE VIEW



TOP VIEW



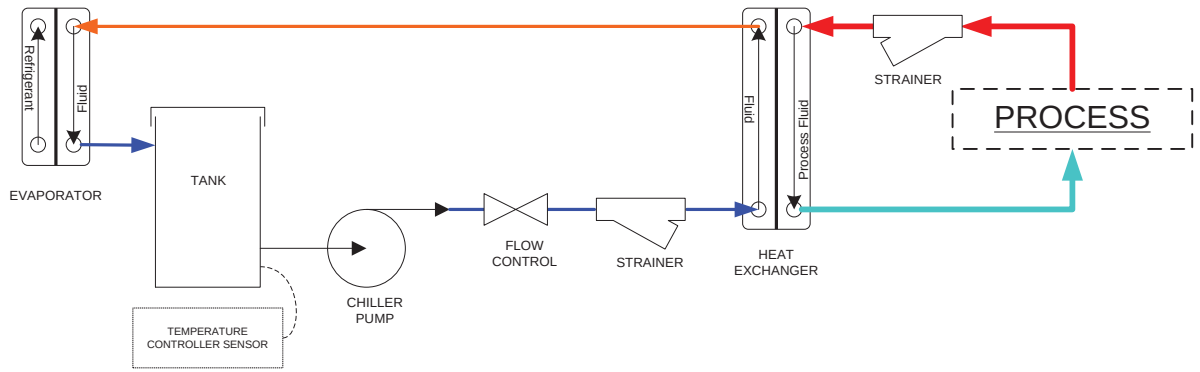
FRONT VIEW



BACK VIEW

COLD SHOT CHILLERS	SIZE	DIMENSION NOTES	DWG NO	REV
	A	Dimensions are in inches unless otherwise specified.	**INSTALLATION DRAWING** **ACWC-480-GC (Typical - Front-Back-Side-Top)**	1
DRAWN ENGINEERING				
ISSUED 6/6/2018	SCALE NONE		DWG-INST_ACWC-480-GC---__(0518) .vsd	SHEET 1

HEAT EXCHANGER (EXCH)



Line Guide

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

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

DRAWN	ENGINEERING	SIZE: A	DESCRIPTION: **Typical FLOW OPTIONS for Chiller Circuits**	REV: 1
ISSUED	6/21/2018	SCALE: NTS	DWG-CKT_ChillerCircuitFlowOptions-Typical_062218.vsd	SHEET: 2 / Heat Exchanger (EXCH)