Model: ACWC-600-GC-ST[1]-__[2]-__[3]-__[4]

Description:

Four 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		600,000 BTU /HR				
COMPRESSOR / REFRIGERANT		(4) HERMETIC SCROLLS / R410A				
CONDENSER FANS / AIRFLOW		4 / 41,800 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 51.3	300	6.6	254.5	300
		B1/B2 55.8	340			
- 6	460 - 3 - 60	A1/A2 23.1	150	3.3	119.9	125
		B1/B2 26.9	179			
DIMENSIONS		92 ¼" L x 88 ¼" W x 73" H				
WEIGHT (APPROX.)		2350 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:

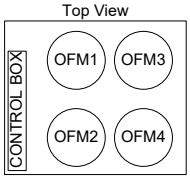
- **IND:** Indoor use only.
- **40:** Suitable for outdoor use with an ambient of 40°F ambient.
- **0:** Suitable for outdoor use to 0°F ambient. Includes Low ambient fan speed controls with (LT) models.
- **M20:** Suitable for outdoor use to -20°F ambient. Includes Low ambient fan speed controls.

[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)

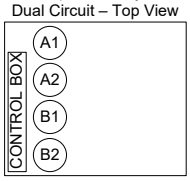
TECHNICAL SPECIFICATION

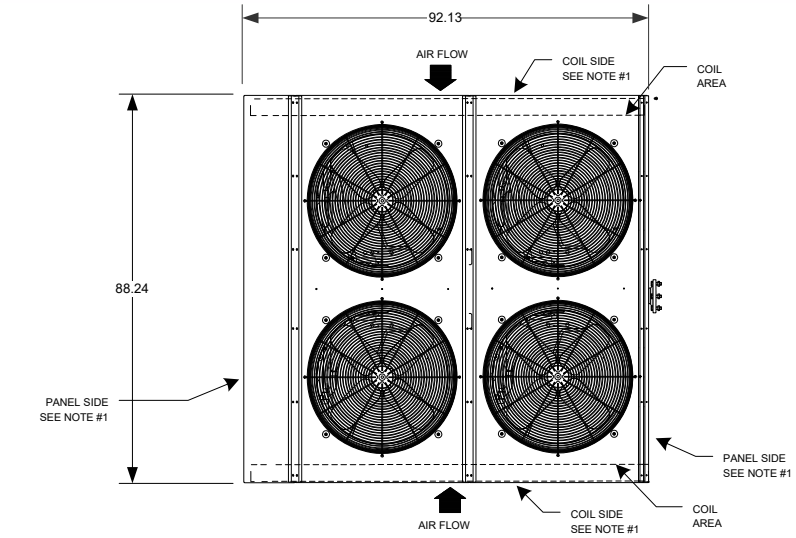
WWW.WATERCHILLERS.COM

Outdoor Fan Layout
Top View

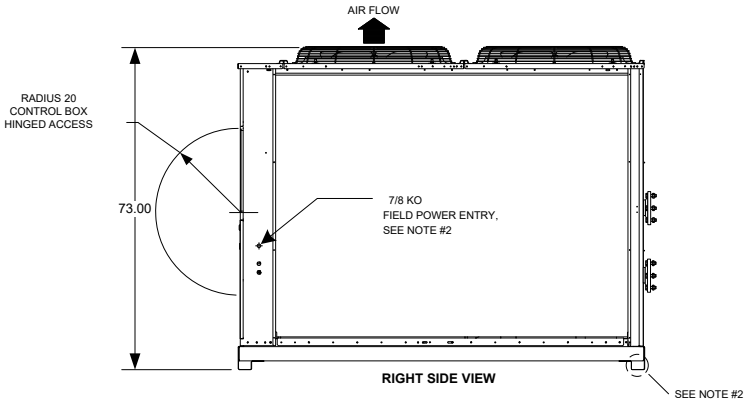


Compressor Layout
Dual Circuit – Top View

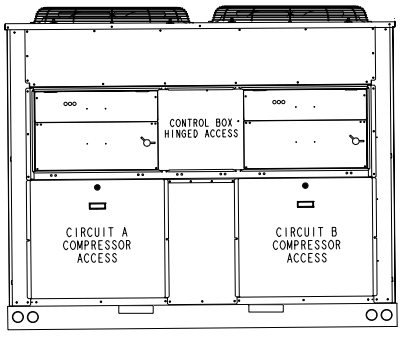




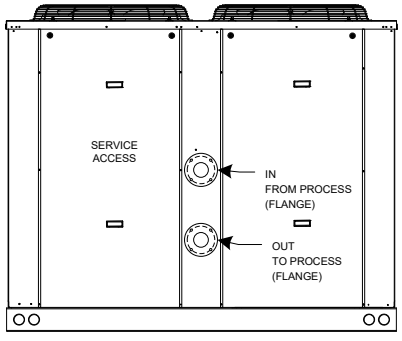
TOP VIEW



RIGHT SIDE VIEW



FRONT VIEW



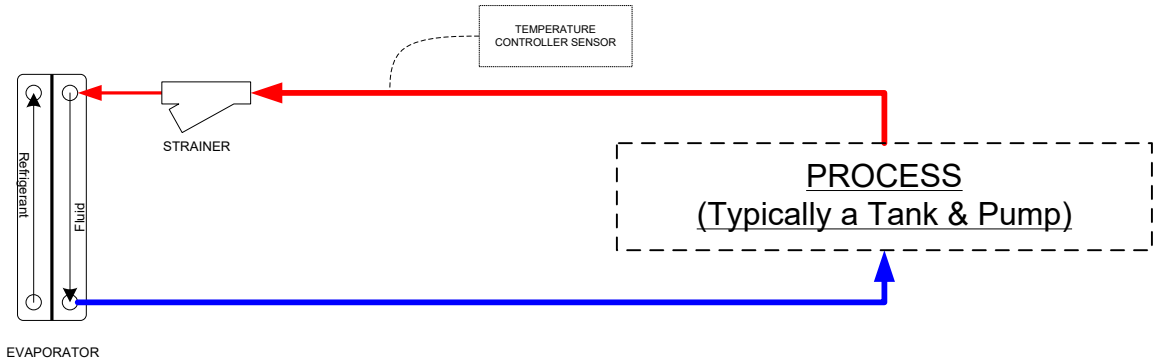
BACK VIEW

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.

COLD SHOT CHILLERS				
DRAWN: ENGINEERING	SIZE: A	DIMENSION NOTES: Dimensions are in inches unless otherwise specified. +-¼"	DWG NO: **INSTALLATION DRAWING** **ACWC-600-GC (Typical - Front-Back-Side-Top)**	REV: 1
ISSUED: 11/18/2021	SCALE: NONE	DWG-INST-600-GC-ST-(0520).vsd	SHEET: 1	

STATIONARY (ST)



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			DESCRIPTION	REV
DRAWN: ENGINEERING	SIZE: A		Typical FLOW OPTIONS for Chiller Circuits	1
ISSUED: 5/2020	SCALE: NONE	DWG-CKT_ChillerCircuitFlowOptions-Typical_(0520).vsd	SHEET: 5 / Stationary (ST)	