

Cold Shot Chillers

"ECONOMICALLY PRICED DEPENDABILITY"



TECHNICAL SPECIFICATION

Model: ACWC-600-GC-ST¹-__²-__³-__⁴

Description:

Four stage portable 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					
COMPRESSORS / REFRIGERANT		(4) 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.)	MCA	MOCP
- 5	230 – 3 – 60	A1/A2	51.3	300	6.6	254.6	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 (APPROX.)		92.2" L x 88.3" 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:** 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.
- **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)

Marrone & Co., Inc.

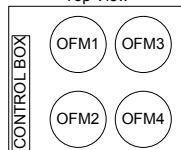
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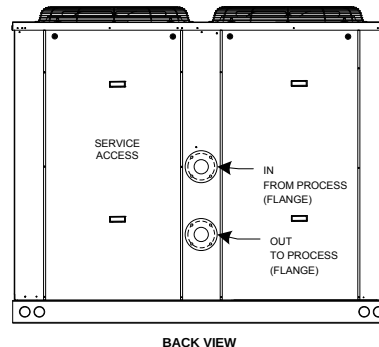
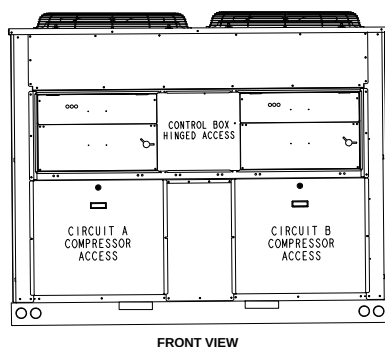
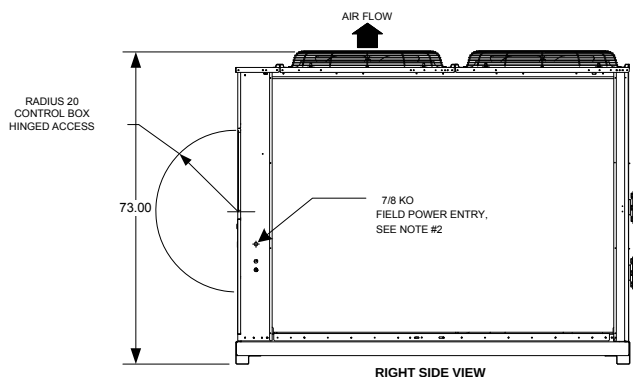
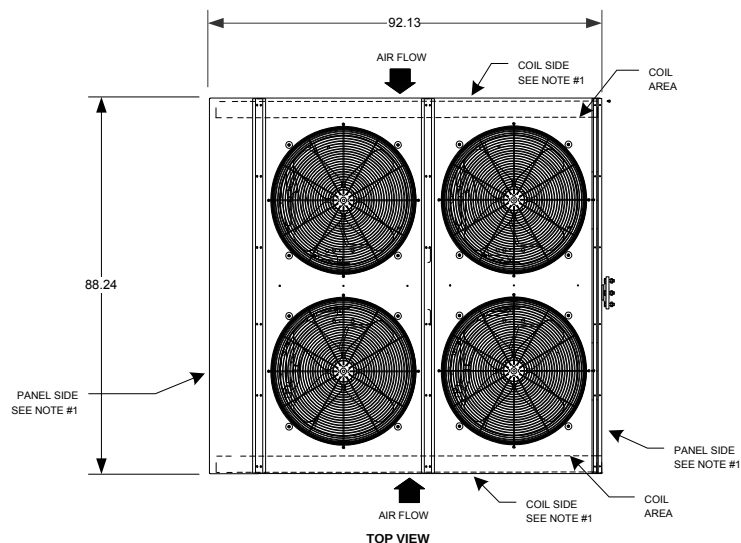
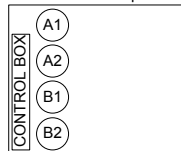
NOTES:

- 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).
- A 7/8 in. diameter hole is provided for locating field power wiring. Actual hole size required depends on field wire sizing.
- 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.
- 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.
- Contact Cold Shot Chillers for details or other information.
- Unit can be handled using the fork truck lift pockets.

Outdoor Fan Layout
Top View



Compressor Layout
Dual Circuit — Top View



COLD SHOT CHILLERS

DRAWN ENGINEERING

ISSUED 6/29/2018

SIZE

A

DIMENSION NOTES

Dimensions are in inches unless otherwise specified.

DWG NO

INSTALLATION DRAWING
ACWC-600-GC (Typical - Front-Back-Side-Top)

REV

1

SCALE

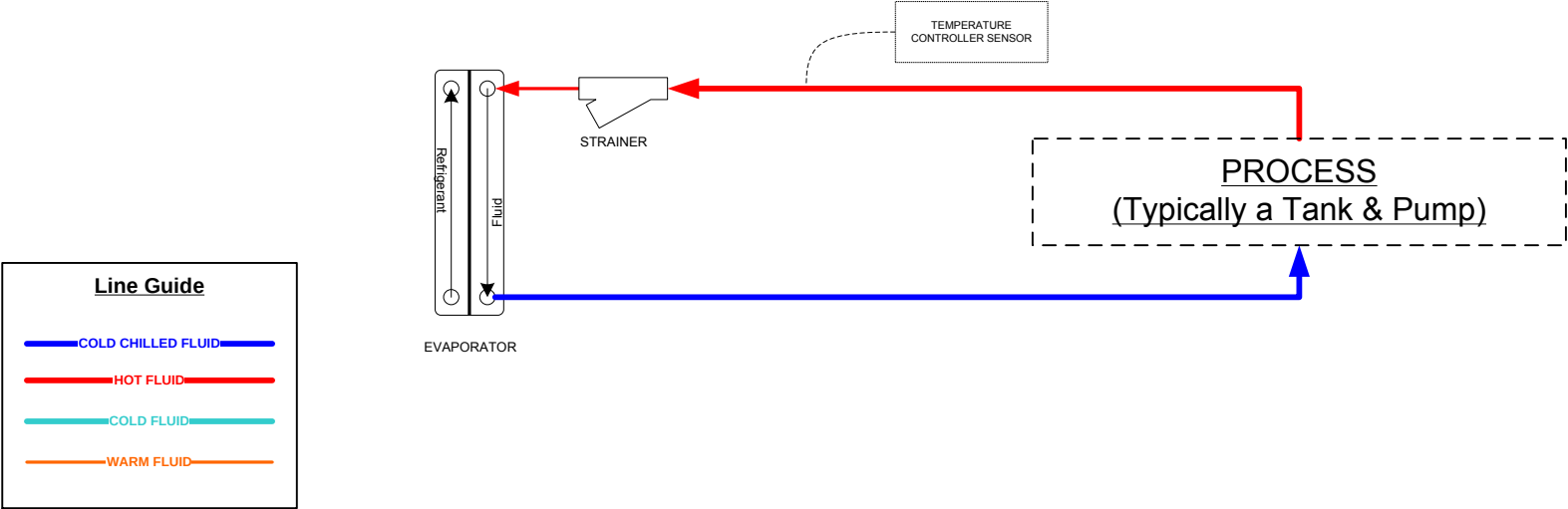
NONE

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SHEET

1

STATIONARY (ST)



COLD SHOT CHILLERS

DRAWN ENGINEERING

ISSUED 6/21/2018

SIZE

A

SCALE NTS

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.

DESCRIPTION

Typical FLOW OPTIONS for Chiller Circuits

REV

1

DWG-CKT_ChillerCircuitFlowOptions-Typical_062218.vsd

SHEET

5 / Stationary (ST)