

Cold Shot Chillers

"ECONOMICALLY PRICED DEPENDABILITY"



TECHNICAL SPECIFICATION

Model: ACWC-720-GC-ST¹-__²-__³-__⁴

Description:

Five 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		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.)	MCA	MOCP
- 5	230 - 3 - 60	A1/A2	55.8	340	6.6	296.3	350
		B1-B3	48.1	245			
- 6	460 - 3 - 60	A1/A2	26.9	179	3.3	129.5	150
		B1-B3	18.6	125			
DIMENSIONS (APPROX.)		110.9" L x 88.3" W x 73" H					
WEIGHT (APPROX.)		2650 LBS					

Note: All specifications subject to change without notice. Specify voltage and ambient condition upon ordering.

MCA: Minimum circuit amps per UL 1995. MOCPP: 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)

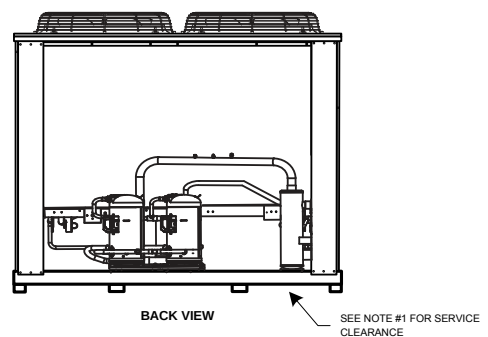
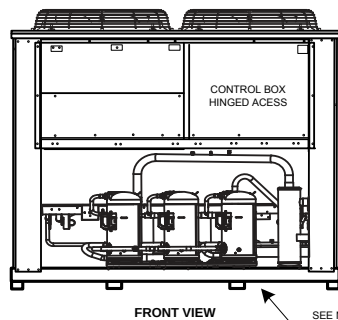
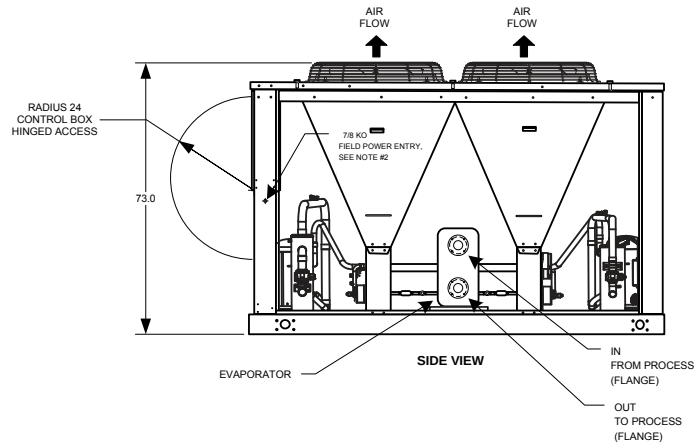
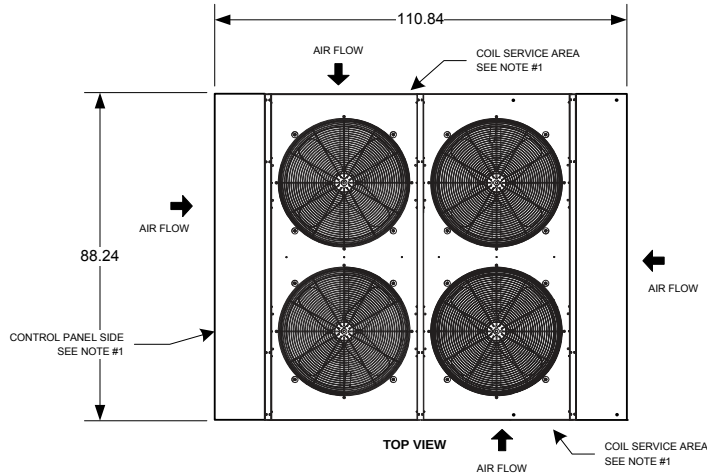
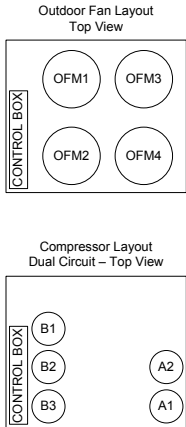
Marrone & Co., Inc.

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PAGE 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 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.
- Field power supply connection: two 7/8 pilot holes provided. Actual hole required depend on field wire sizing.
- Temperature relief device 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 unless otherwise specified.
- 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

ISSUED 6/29/2018

SIZE

A

DIMENSION NOTES

Dimensions are in inches unless otherwise specified.

SCALE NONE

DWG NO

INSTALLATION DRAWING
ACWC-720-GC (Typical - Front-Back-Top-Side)

DWG-INST_-720-GC-ST_-(0618) .vsd

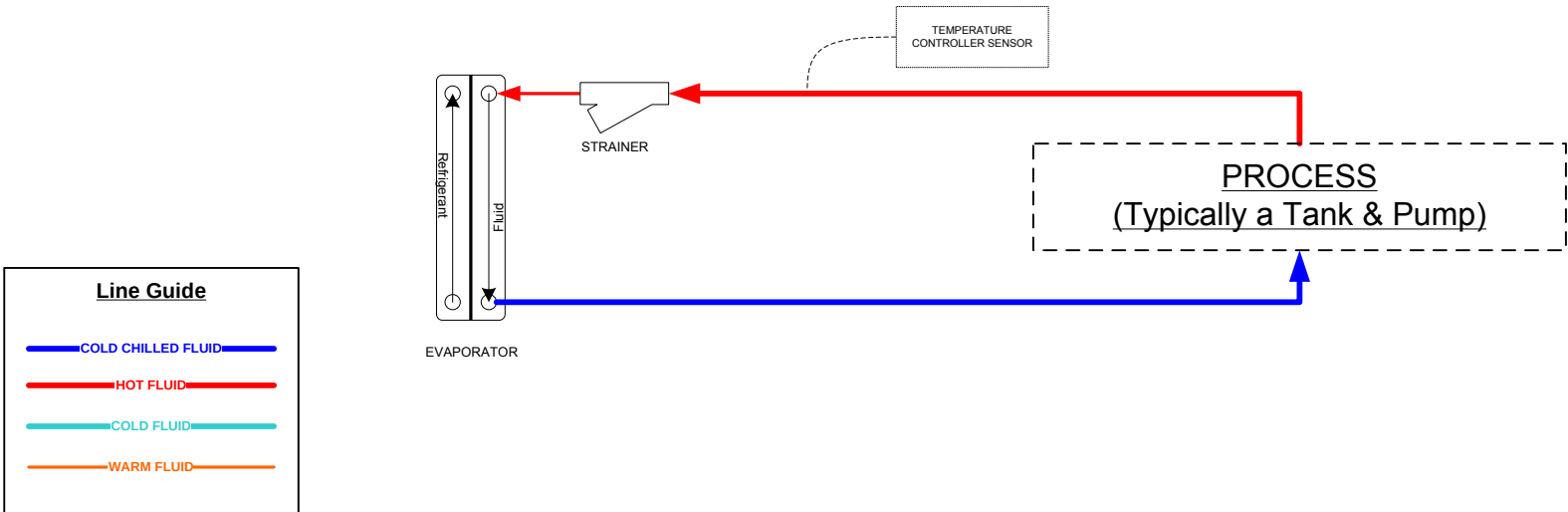
SHEET

1

REV

1

STATIONARY (ST)



COLD SHOT CHILLERS

DRAWN ENGINEERING

ISSUED 6/21/2018

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.

SIZE

A

DESCRIPTION

Typical FLOW OPTIONS for Chiller Circuits

REV

1

SCALE NTS

DWG-CKT_ChillerCircuitFlowOptions-Typical_062218.vsd

SHEET 5 / Stationary (ST)