

Cold Shot Chillers

"ECONOMICALLY PRICED DEPENDABILITY"



TECHNICAL SPECIFICATION

Model: ACWC-480-GC-ST¹-__²-__³-__⁴

Description:

Three 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		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				
FLUID CONNECTIONS		2" MNPT (IN/OUT)				
ELECTRICAL:	V - Ø - HZ	COMP RLA / LRA (ea)	FAN FLA (ea)	MCA	MOCP	
- 5	230 - 3 - 60	51.3	300	6.6	186.5	225
- 6	460 - 3 - 60	23.1	150	3.3	84.9	100
DIMENSIONS (APPROX.)		92.2" L x 88.3" W x 73" H				
WEIGHT (APPROX.)		2100 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:** Bronze "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, 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)

Marrone & Co., Inc.

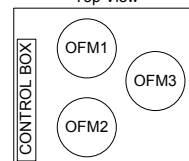
2730 Maximilian Drive, Houston, Texas 77032 • Phone (800) 473-9178, (281) 227-8400

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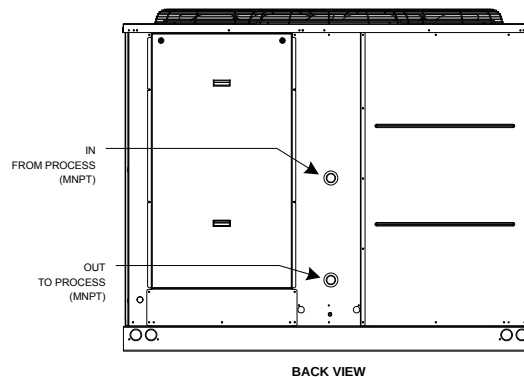
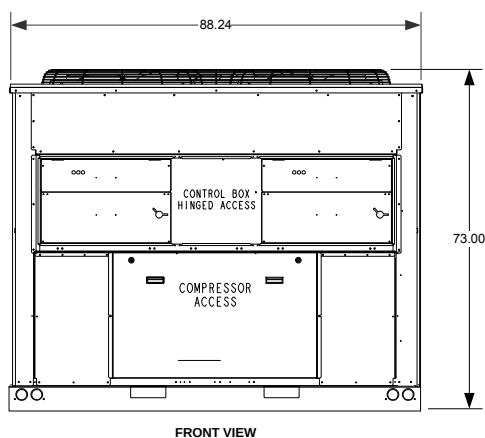
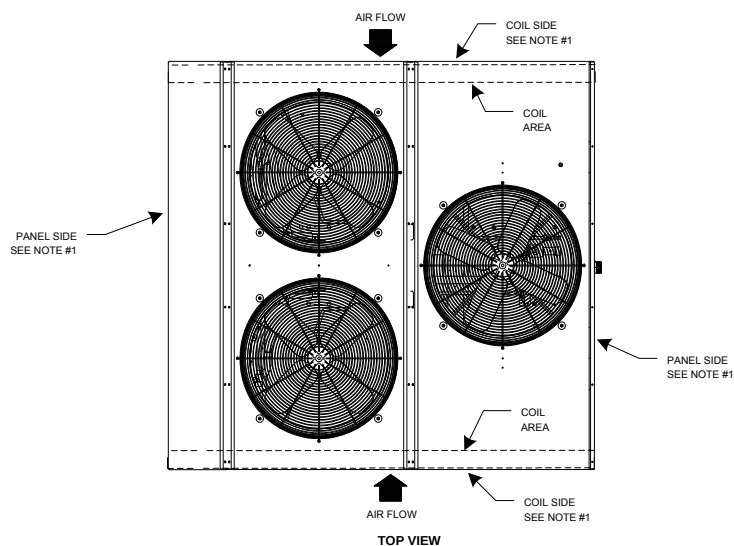
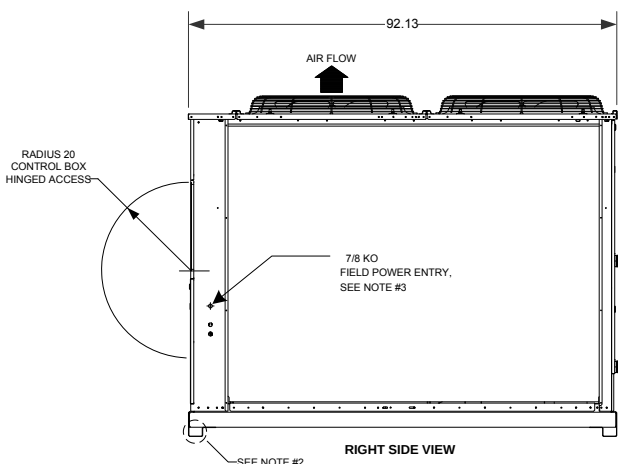
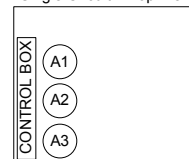
NOTES:

- 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).
- Mounting holes (17/32" Diameter) may be used to mount unit to concrete pad. They are not recommended for mounting unit to spring isolators.
- 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.
- Unit can be handled using the fork truck lift pockets.
- Design and layout may change depending on parts or manufacturing without notice.
- Contact Cold Shot Chillers for details or other information.

Outdoor Fan Layout
Top View



Compressor Layout
Single Circuit – Top View



COLD SHOT CHILLERS

DRAWN ENGINEERING

ISSUED 6/26/2018

SIZE

A

DIMENSION NOTES

Dimensions are in inches unless otherwise specified.

DWG NO

INSTALLATION DRAWING
ACWC-480-GC-ST (Typical - Front-Back-Side-Top)

REV

1

SCALE

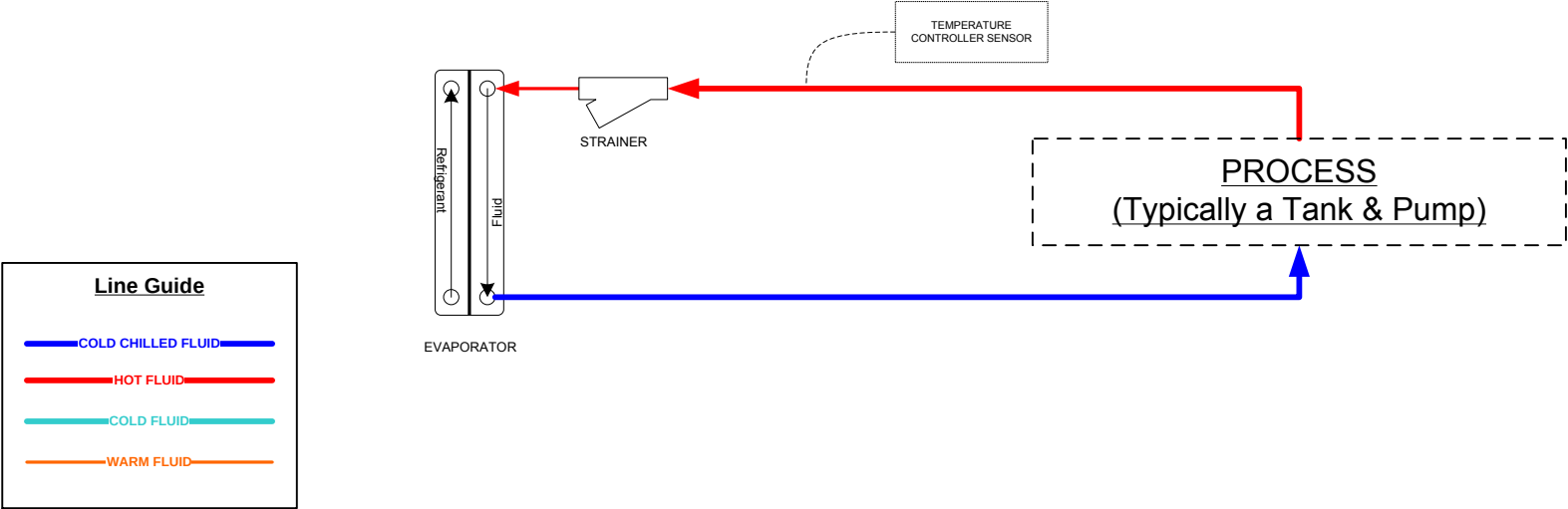
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SHEET

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)