

Cold Shot Chillers

"ECONOMICALLY PRICED DEPENDABILITY"



TECHNICAL SPECIFICATION

Model: ACWC-060-Q-EXCH¹-__²-__³-__⁴

Description:

Single stage air-cooled portable water chiller system. System will provide approximately 60,000 Btu/hr of cooling capacity with a leaving fluid temperature of 50°F and an ambient air temperature of 95°F.

CAPACITY		60,000 BTU /HR				
±5% AT 50° LCWT / 95°F AMBIENT						
COMPRESSOR / REFRIGERANT		HERMETIC SCROLL / R410A				
CONDENSER FANS / AIRFLOW		1 / 3500 CFM				
CONDENSER COILS TYPE		COPPER TUBE / ALUMINUM FIN				
EVAPORATOR TYPE		STAINLESS STEEL / COPPER BRAZED				
EXTRA HEAT EXCHANGER TYPE		STAINLESS STEEL / COPPER BRAZED				
FLUID CONNECTIONS		1" MNPT (IN/OUT)				
ELECTRICAL:	V - Ø - HZ	COMP RLA / LRA	FAN FLA	PUMP FLA	MCA	
-1	575 - 3 - 60	5.7	38.9	0.5	1.3	8.9
-2	230 - 1 - 60	26.4	134	1.2	6.6	40.8
-5	230 - 3 - 60	16	110	1.3	3.4	24.7
-6	460 - 3 - 60	7.8	52	0.6	1.7	12.0
PUMP HP / OUTPUT		1.0 HP / 30 GPM @ 30 PSI				
TANK SIZE / CONSTRUCTION		25 GALLON / 304 STAINLESS STEEL TANK WITH LID				
DIMENSIONS		50 ½" L x 38 ½" W x 57" H				
WEIGHT (APPROX.)		500 LBS				

Note: All specifications subject to change without notice. Specify voltage and ambient condition upon ordering.
1ph pump motor used on -2 & -5 units. MCA: Minimum circuit amps 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, balance 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. Pumps are stainless steel centrifugal with flow control valve. Tanks are insulated with shoe box lid, fill port, and level sight glass. Stainless steel / copper brazed extra heat exchanger.
- **Safety Controls:** High and low refrigerant pressure, high and low fluid temperature, freeze, low water flow, overloads for compressor and fan motors, safety fuses or overloads for pump.
- **Construction:** Welded steel powder coated frame and full metal cabinet, copper piping connections.
- **Warranty:** One year parts / five year compressor.

SUITABLE AMBIENT CONDITIONS/FEATURES:

- **IND:** Indoor use only. Casters, optional.
- **40:** Suitable for outdoor use with an ambient of 40°F ambient. Casters, optional.
- **0:** Suitable for outdoor use to 0°F ambient. Includes low ambient fan speed controls with (LT) models. Casters, optional.
- **M20:** Suitable for outdoor use to -20°F ambient. Includes with low ambient fan speed controls with hot gas bypass. Casters, optional.

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)

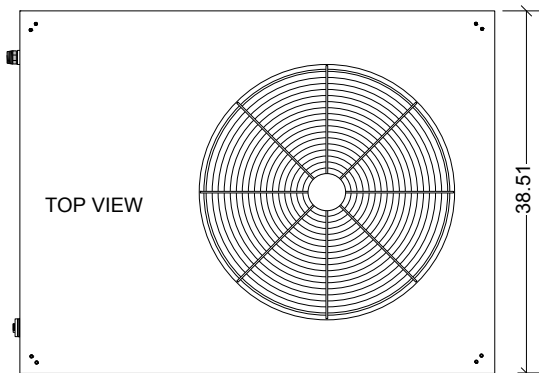
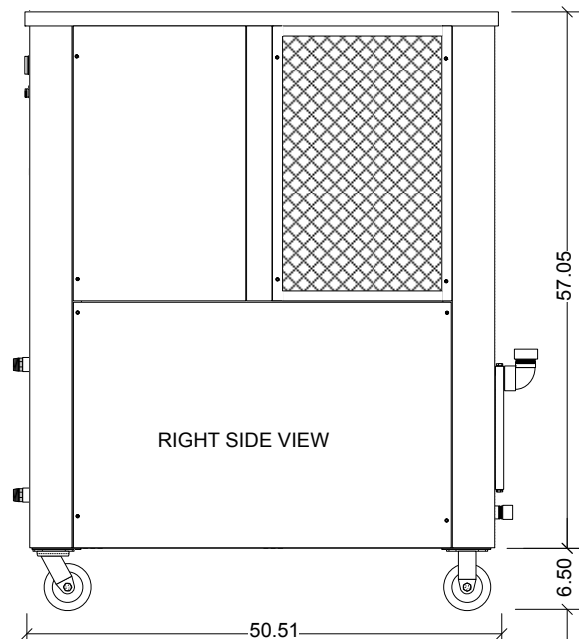
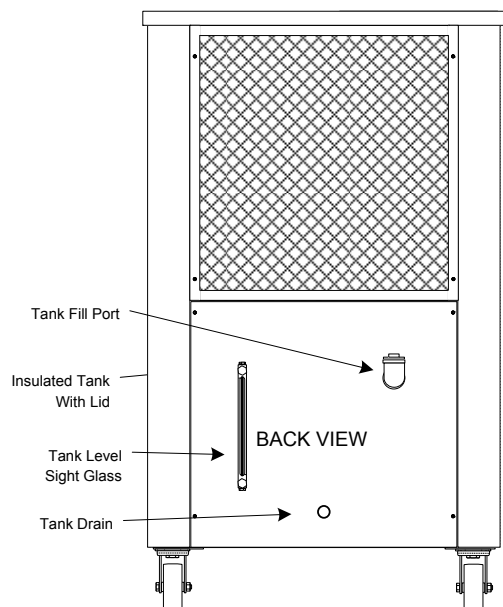
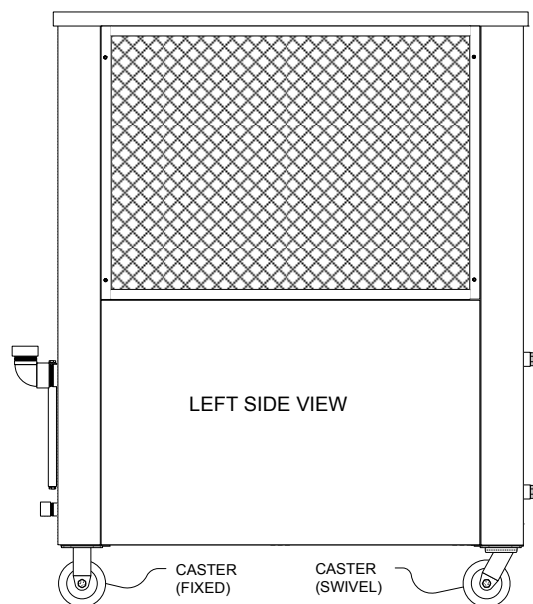
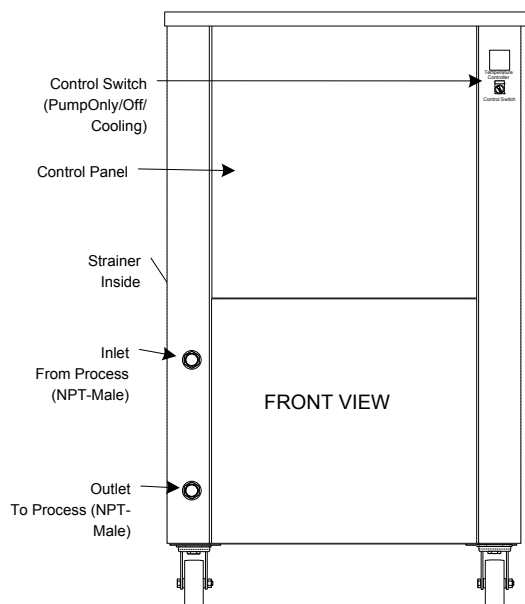
³ Ambient Temperature Conditions (see above)

⁴ Electrical Power Code (see above)

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GENERAL NOTES

- Optional Flow Switch (Included with Low Ambient Kit Options).
- Casters are included with indoor units upon request. Optional on outdoor units.
- Specifications subject to change without notice.
- Split units not shipped with refrigerant. Charged with 15# Nitrogen charge. Nitrogen must be evacuated and system properly charged with refrigerant while following instructions in manual.

COLD SHOT CHILLERS

DRAWN ENGINEERING

ISSUED 3/29/2016

SIZE

A

DIMENSION NOTES

Dimensions are in inches
unless otherwise specified.

DWG NO

INSTALLATION DRAWING
ACWC-060-Q-EXCH_ (Typical)

REV

1

SCALE

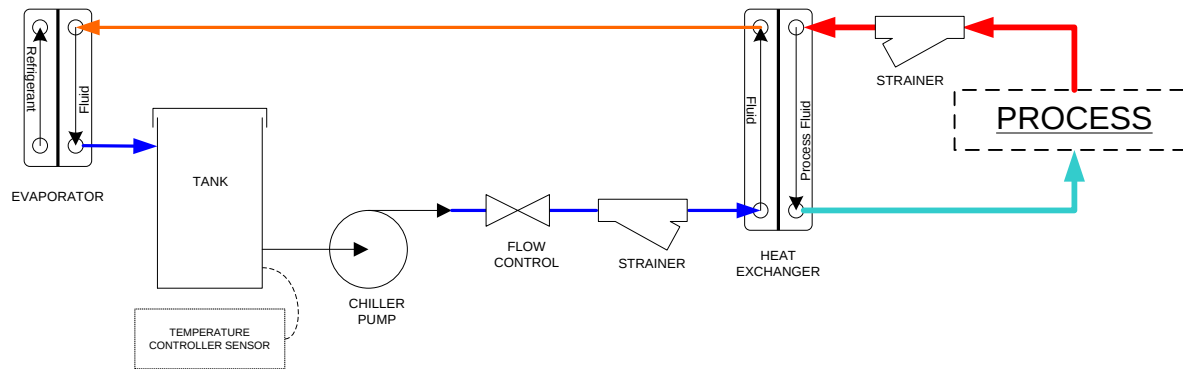
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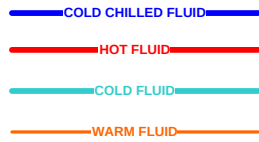
SHEET

1 / ACWC-060-Q-EXCH_-
(EntireFullPanel)(All)

HEAT EXCHANGER (EXCH)



Line Guide



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

ISSUED 6/21/2018

SIZE

A

SCALE NTS

DESCRIPTION

Typical FLOW OPTIONS for Chiller Circuits

REV

1

DWG-CKT_ChillerCircuitFlowOptions-Typical_062218.vsd

SHEET 2 / Heat Exchanger (EXCH)