



Model: ACWC-180-E-RF¹-__²-__³-__⁴

Description:

Two 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		180,000 BTU /HR					
COMPRESSOR / REFRIGERANT		TANDEM HERMETIC SCROLL / R410A					
CONDENSER FANS / AIRFLOW		3 / 12000 CFM					
CONDENSER COILS TYPE		COPPER TUBE / ALUMINUM FIN					
EVAPORATOR TYPE		STAINLESS STEEL / COPPER BRAZED					
FLUID CONNECTIONS		2" MNPT (IN/OUT)					
ELECTRICAL:	V - Ø - HZ	COMP RLA / LRA (ea)	FAN FLA (ea)	PUMP FLA	MCA	MOCP	
- 1	575 - 3 - 60	9	78	1	2.2	25.4	30
- 5	230 - 3 - 60	25	164	2.4	5.6	69	90
- 6	460 - 3 - 60	12.2	100	1.4	2.8	34.4	45
PUMP HP / OUTPUT		2.0 HP / 60 GPM @ 30 PSI					
DIMENSIONS		88" L x 39 ½" W x 70" H					
WEIGHT (APPROX.)		1500 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. Pumps are stainless steel centrifugal.
- **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 on frame.
- **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 with hot gas bypass. External wind baffles, 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)

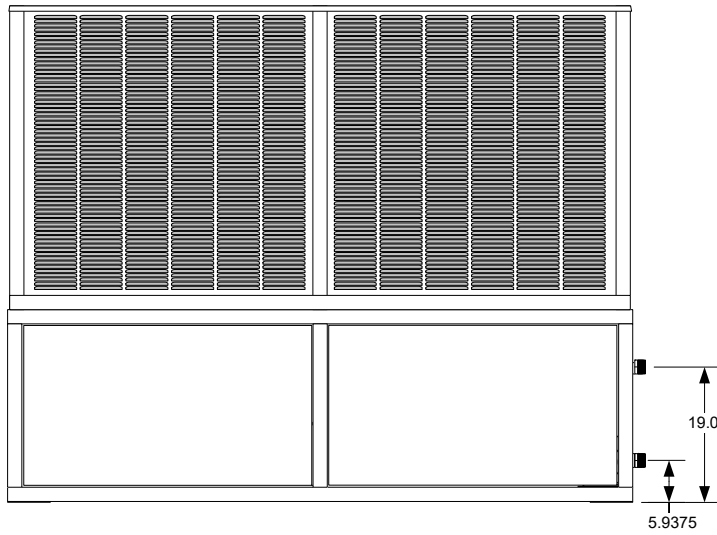
⁴ Electrical Power Code (see above)



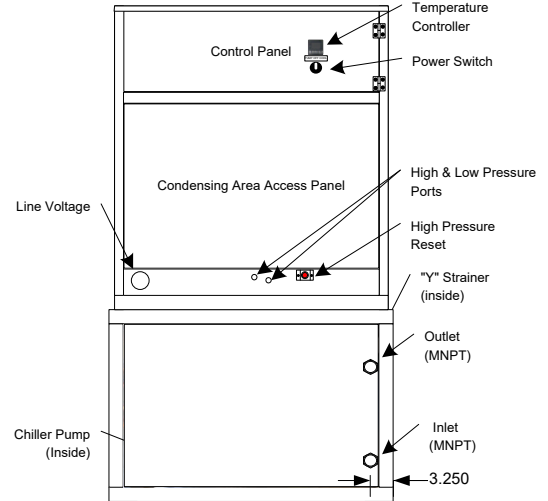
TECHNICAL SPECIFICATION

WWW.WATERCHILLERS.COM

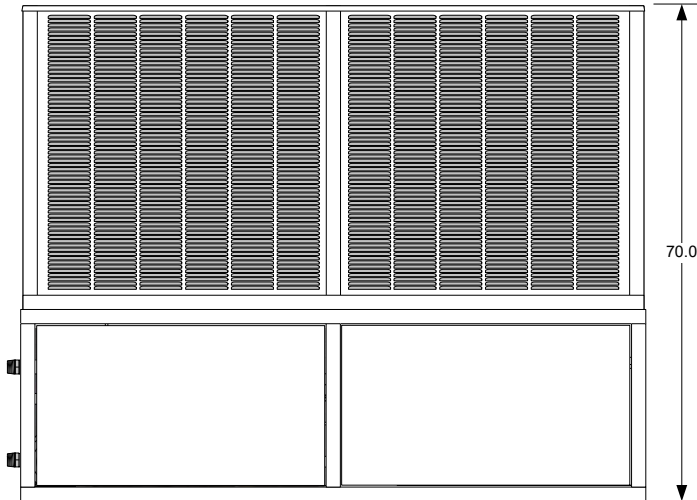
LEFT



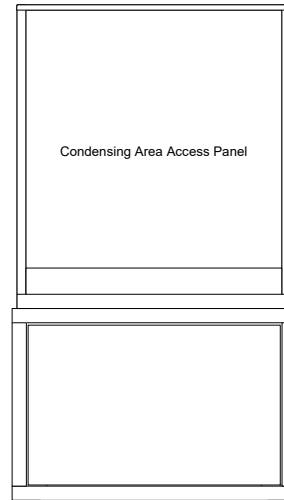
FRONT



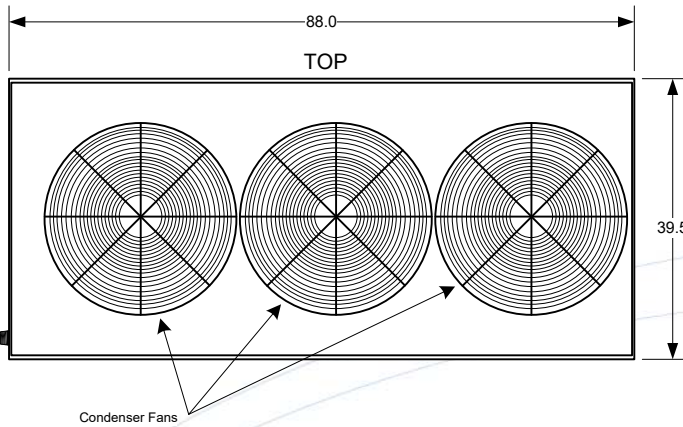
RIGHT



BACK



TOP



NOTES

- Unit should be installed with at least 4' clearance on all sides and a minimum of 8' clear air space above the unit
- Dimensions are approximate. (inches)
- Casters (Optional)
- All specifications subject to change without notice.

COLD SHOT CHILLERS

DRAWN ENGINEERING

ISSUED 6/4/2020

SIZE A
DIMENSION NOTES
Dimensions are in inches
Unless otherwise specified. +/-1/4"

SCALE NONE

DWG NO

INSTALLATION DRAWING
ACWC-180-240-E- (Typical)

REV

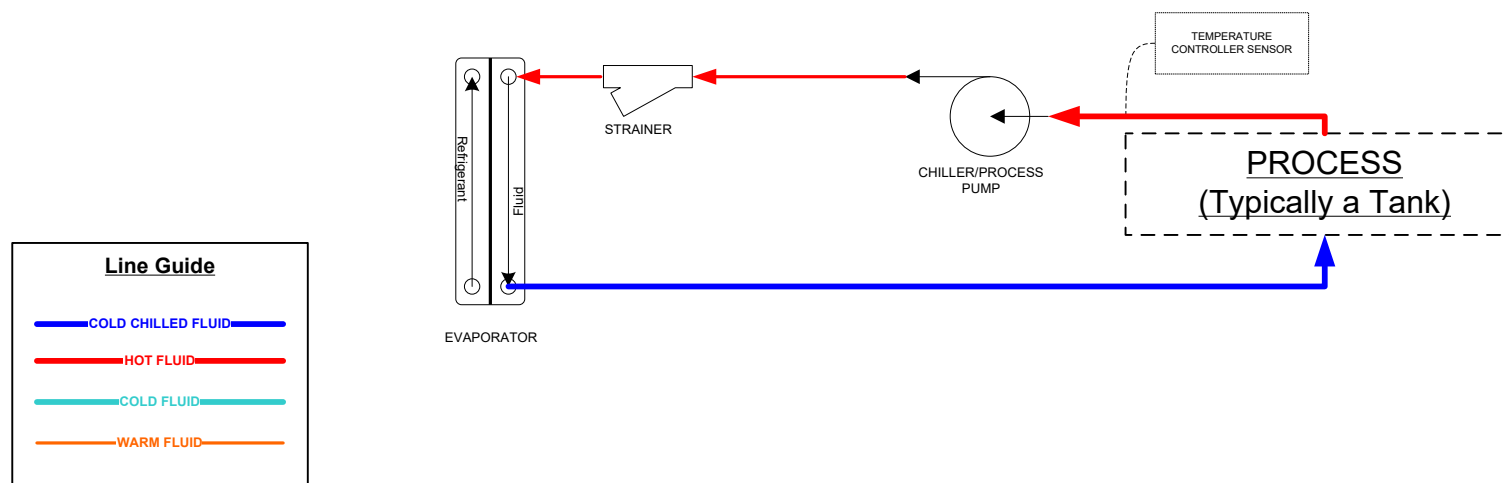
1

DWG-INST_ACWC-180-240-E-_(0620).vsd

SHEET 3 / Front-Back-Top-Sides-RF



REVERSE FLOW (RF)



COLD SHOT CHILLERS

DRAWN ENGINEERING

ISSUED 5/2020

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

SCALE NONE

DESCRIPTION

Typical FLOW OPTIONS for Chiller Circuits

REV

1

DWG-CKT_ChillerCircuitFlowOptions-Typical_(0520).vsd

SHEET 3 / Reverse Flow (RF)