



Model: ACWC-120-Q-\_\_<sup>1</sup>\_\_<sup>2</sup>\_\_<sup>3</sup>\_\_<sup>4</sup>

## Description:

Two stage air-cooled portable 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		120,000 BTU /HR					
COMPRESSOR / REFRIGERANT		HERMETIC SCROLL / R410A					
CONDENSER FANS / AIRFLOW		2 / 8000 CFM					
CONDENSER COILS TYPE		COPPER TUBE / ALUMINUM FIN					
EVAPORATOR TYPE		STAINLESS STEEL / COPPER BRAZED					
FLUID CONNECTIONS		1 1/4" MNPT (IN/OUT)					
ELECTRICAL:	V - Ø - HZ	COMP RLA / LRA	FAN FLA (ea)	PUMP FLA	MCA	MOCP	
- 5	230 - 3 - 60	32.6	240	3.5	5.0	52.7	80
- 6	460 - 3 - 60	14.8	130	1.5	2.5	24	35
PUMP HP / OUTPUT		1.5 HP / 40 GPM @ 34.6 PSI					
TANK SIZE / CONSTRUCTION		41 GALLON / 304 STAINLESS STEEL TANK WITH LID					
DIMENSIONS		73 1/2" L x 39 1/2" W x 67" 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. Tanks are insulated with shoe box lid, fill port, and level sight glass. Portable systems will include a bypass flow valve.
- **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.
- **M20:** Suitable for outdoor use to -20°F ambient. Includes hot gas bypass. External wind baffles, optional.

<sup>1</sup> Flow Design (\_\_=Portable, ST=Stationary, RF=Reverse Flow, EXCH=Extra Heat Exchanger, DP=Dual Pump, DR=Dual Return)

<sup>2</sup> Leaving Fluid Temperature (\_\_=Standard, LT=Low Temperature-specify lowest temperature in °F)

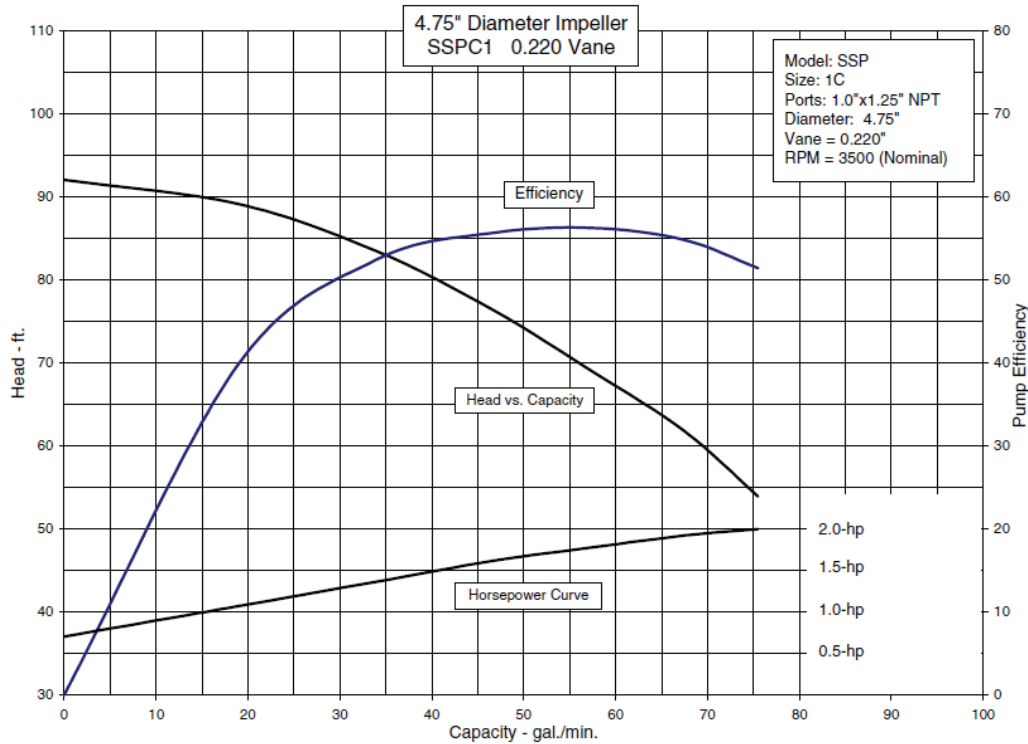
<sup>3</sup> Ambient Temperature Conditions (see above)

<sup>4</sup> Electrical Power Code (see above)

# Performance Curve and Data Sheet

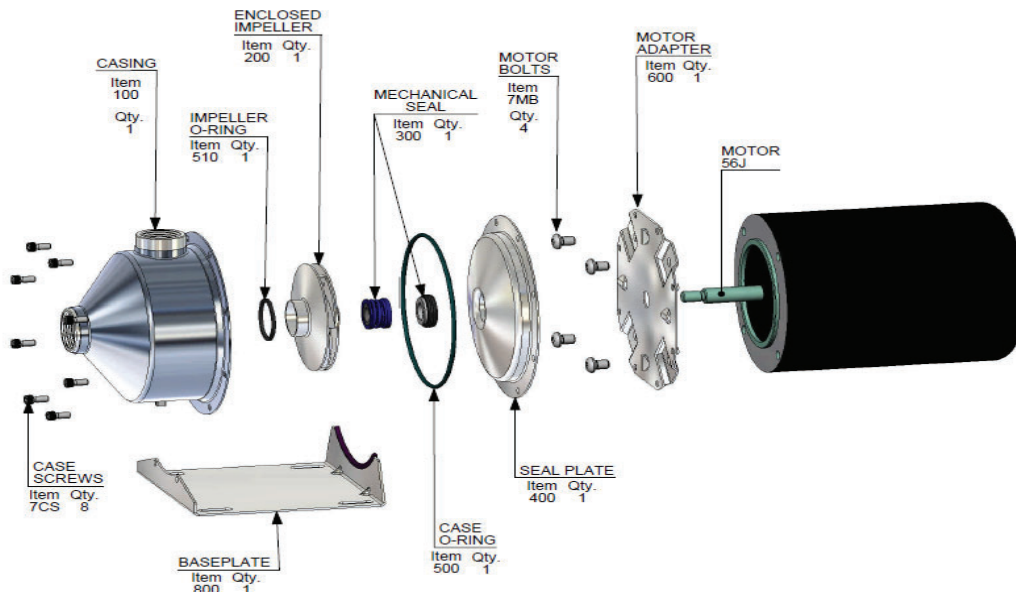
PUOD-000-015-0-0

1-1/2Hp/3Ø Motor ODP/ Pump with 4.75" Impeller and 0.220" Vane at 3500rpm



Clean water based performance at 60 deg. F.

3/01/01



## ASP-SSPC Pump/Motor Assembly Exploded View

- If needed, the pump label is located on the pump casing near outlet port under the insulation. Carefully pull insulation up near the unglued section. Pump Base *(not supplied with footed motors)*
- Reference the chiller serial number when ordering parts for specific supplied pump.

**COLD SHOT CHILLERS / Marrone & Co., Inc.**

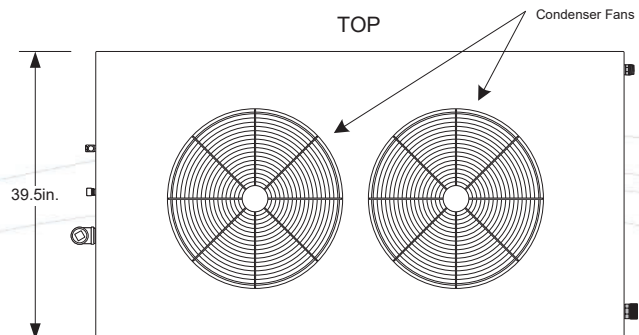
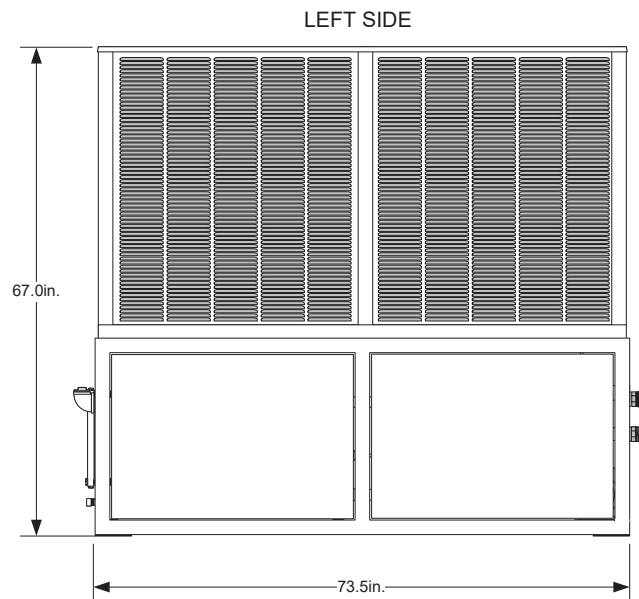
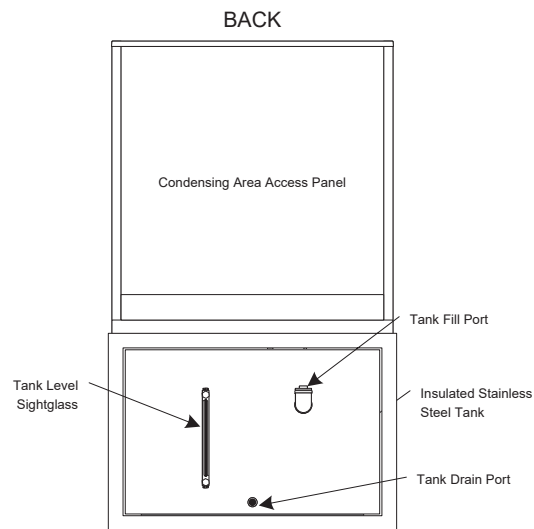
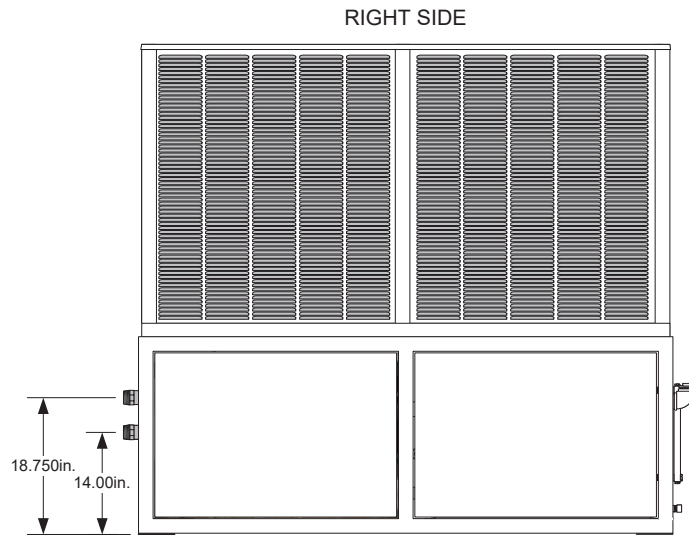
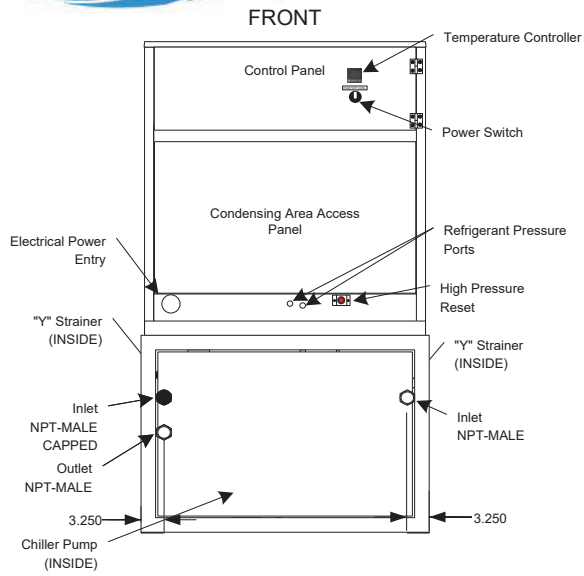
Houston, Texas U.S.A. • Phone (800) 473-9178, (281) 227-8400

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# TECHNICAL SPECIFICATION

WWW.WATERCHILLERS.COM



## 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 6/19/2020

SIZE

A

DIMENSION NOTES

Dimensions are in inches  
Unless otherwise specified.  $\pm \frac{1}{4}$ "

DWG NO

**INSTALLATION DRAWING**  
**ACWC-120-Q\_ (Typical)**

REV

1

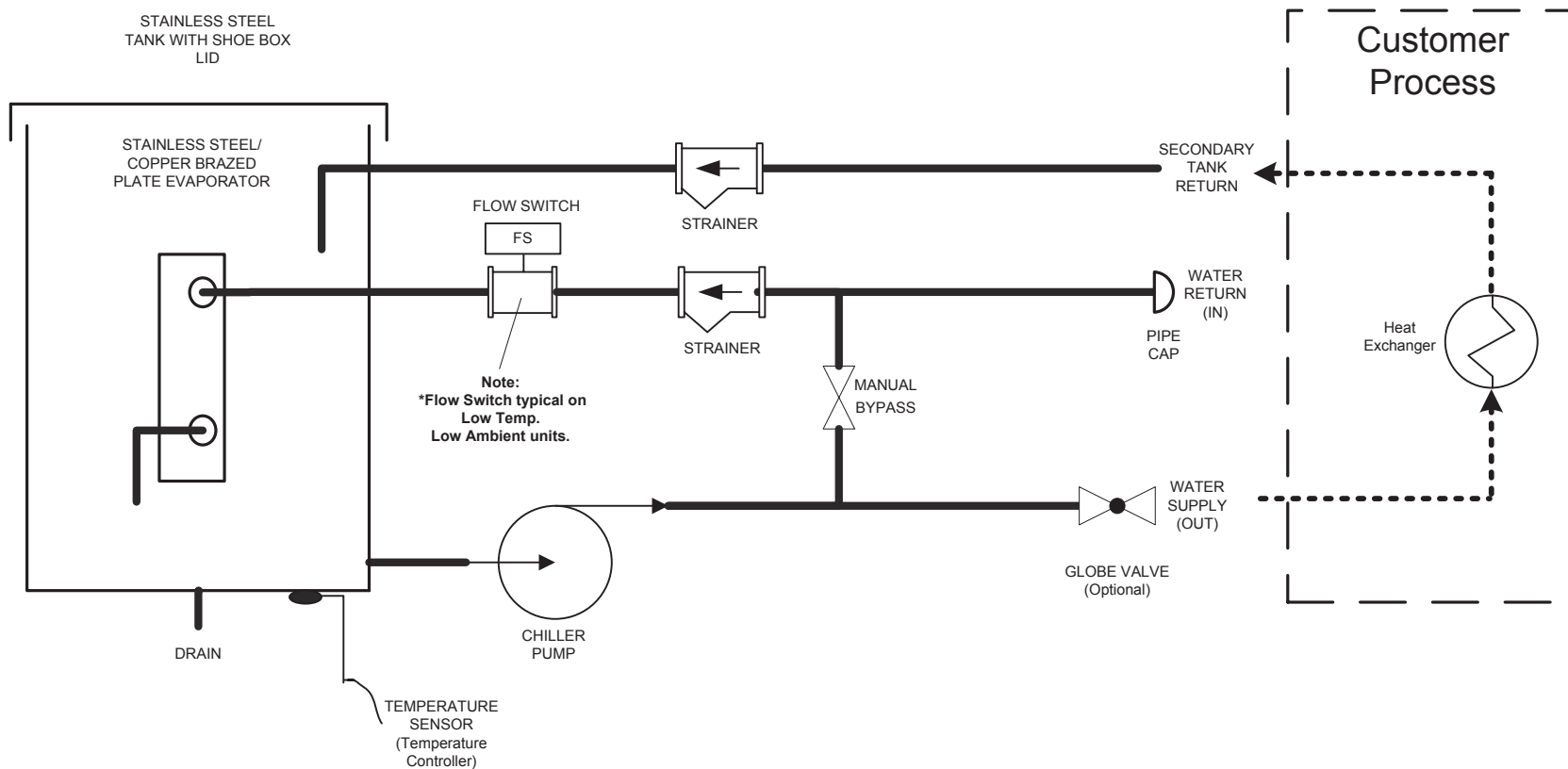
SCALE

NONE

DWG-INST\_ACWC-120-Q-(0520).vsd

SHEET

1 / Front-Back-Top-Sides



# COLD SHOT CHILLERS

DRAWN		ENGINEERING		SIZE	FSCM NO	DWG NO	REV
ISSUED		05/2011		A		CHILL WATER CIRCUIT – TYPICAL E - “Portable - Dual Return with Globe Valve and Flow Switch”	1
		SCALE		NA		SHEET	2