



Model: ACWC-024-Q-DM<sup>1</sup>-\_\_<sup>2</sup>-\_\_<sup>3</sup>-\_\_<sup>4</sup>

**Description:**

Two stage air-cooled portable water chiller system. Dual pump model includes one recirculating pump for the chiller circuit and a second pump dedicated for the process circuit. Process pump indicated on table is typical, with options available for different capacity. 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		24,000 BTU /HR					
COMPRESSOR / REFRIGERANT		HERMETIC SCROLL / R410A					
CONDENSER FANS / AIRFLOW		1 / 2325 CFM					
CONDENSER COILS TYPE		COPPER TUBE / ALUMINUM FIN					
EVAPORATOR TYPE		STAINLESS STEEL / COPPER BRAZED					
FLUID CONNECTIONS		1 ¼" MNPT (IN/OUT)					
ELECTRICAL:	V - Ø - HZ	COMP RLA / LRA	FAN FLA	(No*) PUMP FLA	MCA	MOCP	
- 2	230 - 1 - 60	11.2	60.8	0.7	(1) 6.6 (2) 9.8	31.1	40
CHILLER PUMP HP / OUTPUT (1)		1.0 HP / 30 GPM @ 30 PSI					
PROCESS PUMP HP / OUTPUT (2)		2.0 HP / 55 GPM @ 30 PSI					
TANK SIZE / CONSTRUCTION		25 GALLON / 304 STAINLESS STEEL TANK WITH LID					
DIMENSIONS		42" L x 32 ½" W x 50 ½" H					
WEIGHT (APPROX.)		563 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. Hot gas bypass for capacity control.
- **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 flow control 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. Includes Heat trace cable.
- **0:** Suitable for outdoor use to 0°F ambient. Includes Heat trace cable.
- **M20:** Suitable for outdoor use to -20°F ambient. Includes Heat trace cable. Internal wind baffles, optional.

**Available Options:**

- |   |   |  |
|---|---|--|
| - Automatic City Water Switchover Panel                     | - Remote Status Panel                                       | - Compressed Air System                            |
| - Manual City Water Switchover (Internal or External/Panel) | - Panel Mount Water, Refrigeration, and Air Pressure Gauges | - Vibration eliminators on all outside connections |
| - Operating & Safety Indicator lights                       | - Pump capacity upgrade                                     | - 150 Micron City Water Filter                     |
| - City Water Audible Alarm                                  | - Phase Monitoring Safety                                   | - 150 Micron Chill Water Filter                    |

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

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

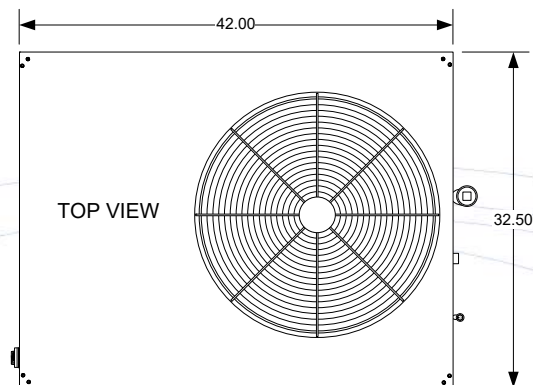
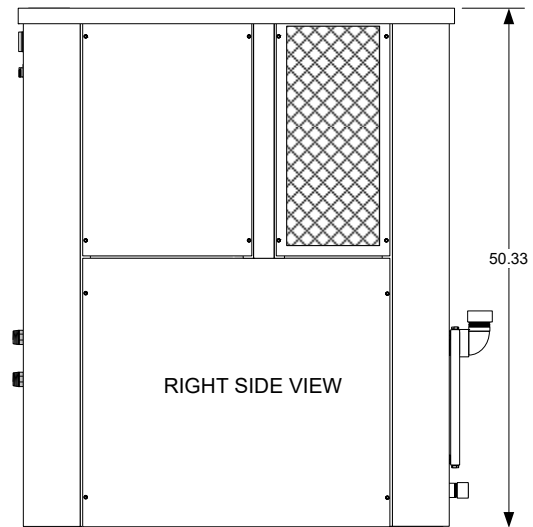
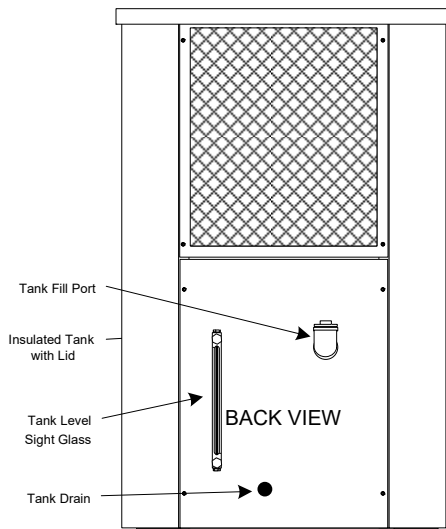
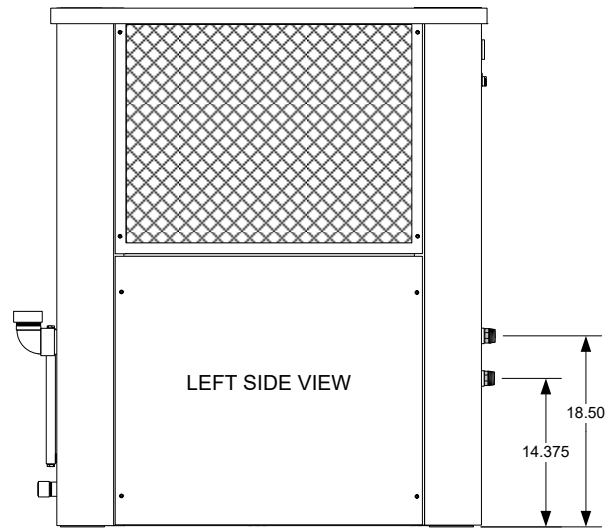
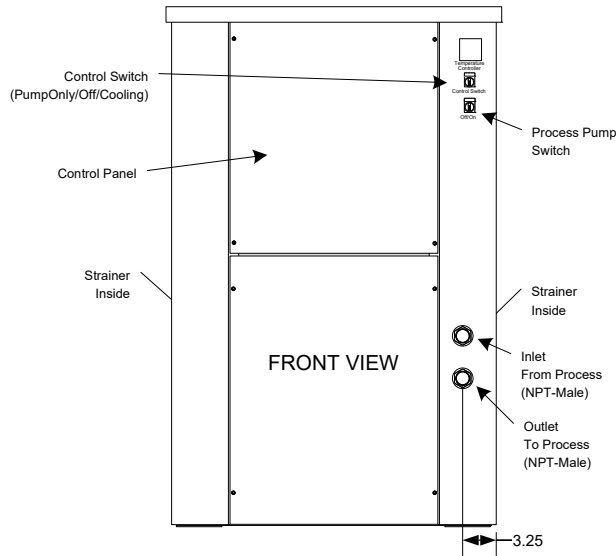
<sup>3</sup> Ambient Temperature Conditions (see above)

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



# TECHNICAL SPECIFICATION

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**NOTES**

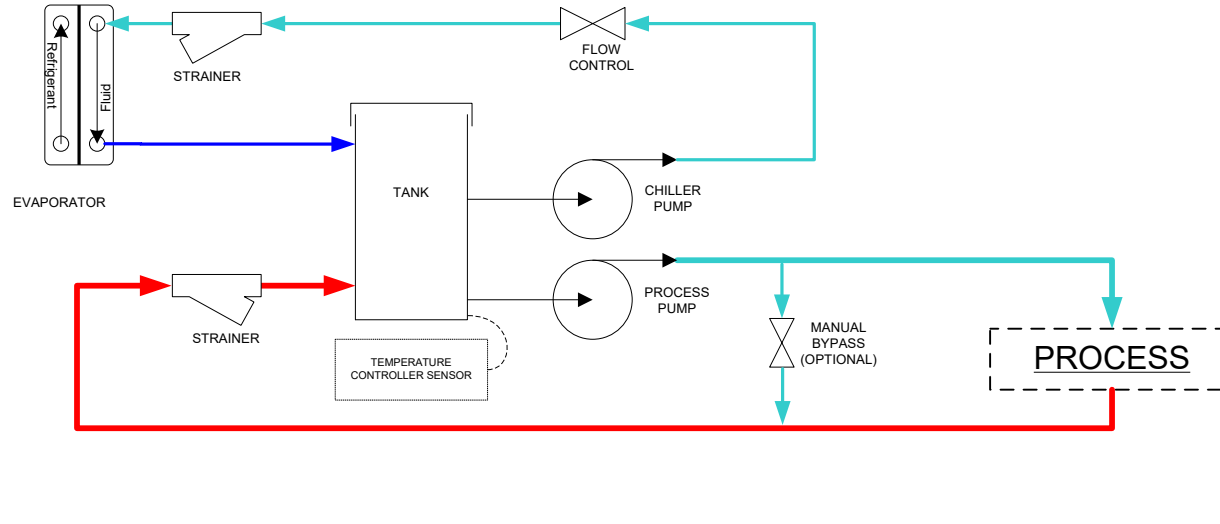
- Unit should be installed with at least 2' clearance on all sides and a minimum of 5' clear air space above the unit
- Dimensions are approximate. (inches)
- Casters (Optional)
- All specifications subject to change without notice.

**COLD SHOT CHILLERS**

DRAWN		ENGINEERING		SIZE	DIMENSION NOTES	DWG NO	REV
ISSUED		5/26/2020		A	Dimensions are in inches Unless otherwise specified. +/-1/4"	<b>INSTALLATION DRAWING</b> <b>ACWC-024-Q_- (Typical)</b>	1
SCALE		NONE		DWG-INST_ACWC-024-Q_(0520).vsd		SHEET	1 / Front-Back-Top-Sides



**DUAL PUMP (DP)**



**Line Guide**

- COLD CHILLED FLUID
- HOT FLUID
- COLD FLUID
- WARM FLUID

**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 5/2020

SIZE A

SCALE NONE

DESCRIPTION  
**Typical FLOW OPTIONS for Chiller Circuits**

REV 1

DWG-CKT\_ChillerCircuitFlowOptions-Typical\_(0520).vsd

SHEET 6 / Dual Pump (DP)