



Model: ACWC-018-Q-EXCH<sup>1</sup>-\_\_<sup>2</sup>-\_\_<sup>3</sup>-2<sup>4</sup>

**Description:**

Single stage air-cooled portable water chiller system with additional process system heat exchanger. 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<br>±5% AT 50° LCWT / 95°F AMBIENT |              | 18,000 BTU /HR                                |         |          |     |      |    |
|--|--------------|---|---------|----------|-----|------|----|
| COMPRESSOR / REFRIGERANT                   |              | HERMETIC SCROLL / R410A                       |         |          |     |      |    |
| CONDENSER FANS / AIRFLOW                   |              | 1 / 2225 CFM                                  |         |          |     |      |    |
| CONDENSER COILS TYPE                       |              | COPPER TUBE / ALUMINUM FIN                    |         |          |     |      |    |
| EVAPORATOR TYPE                            |              | STAINLESS STEEL / COPPER BRAZED               |         |          |     |      |    |
| 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 | MOCP |    |
| - 2  | 230 - 1 - 60 | 9.7   | 48      | 0.6      | 6.6 | 19.3 | 25 |
| PUMP HP / OUTPUT                           |              | 1.0 HP / 30 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.)                           |              | 350 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:** Heat exchanger for separation of chilled fluid circuit from process fluid circuit. 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.
- **0:** Suitable for outdoor use to 0°F ambient.
- **M20:** Suitable for outdoor use to -20°F ambient. Includes hot gas bypass. Internal 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)

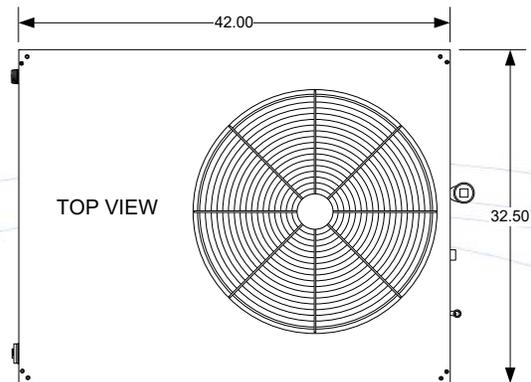
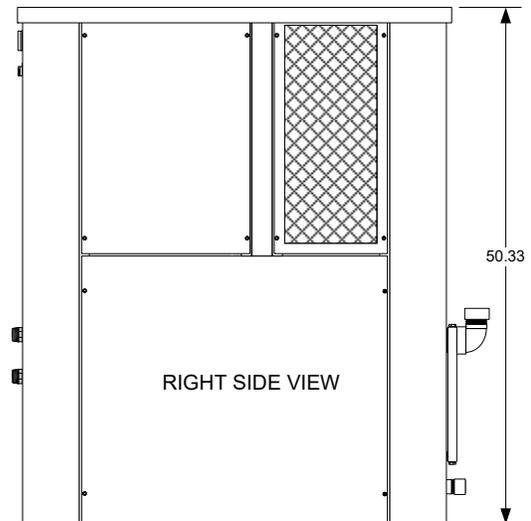
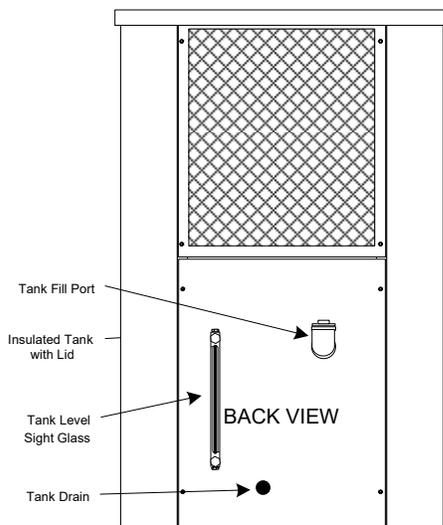
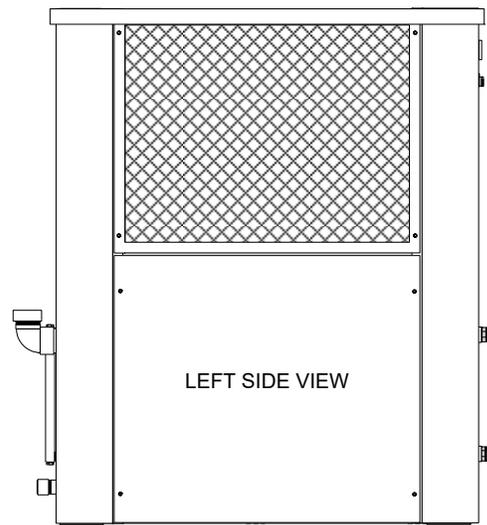
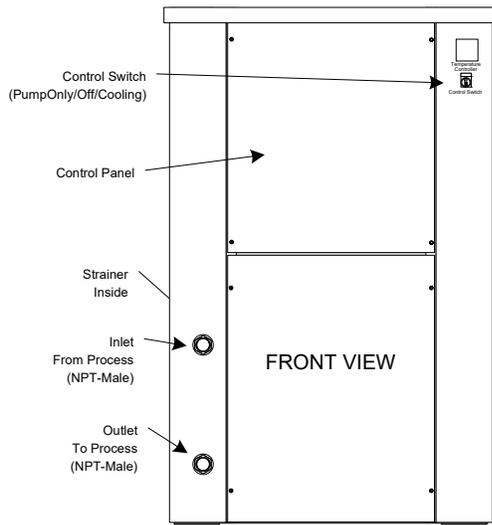
<sup>3</sup> Ambient Temperature Conditions (see above)

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



# TECHNICAL SPECIFICATION

WWW.WATERCHILLERS.COM



**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

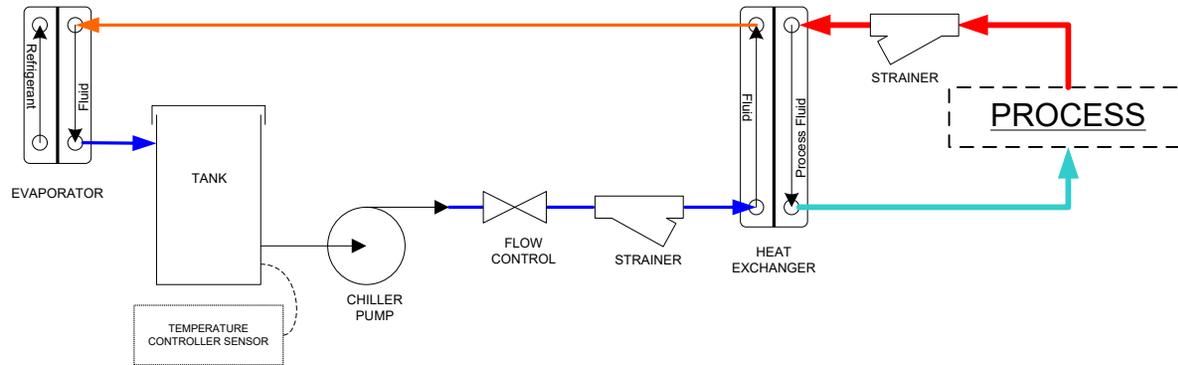
DRAWN ENGINEERING

ISSUED 6/2/2020

|               |  |   |          |
|---------------|--|---|----------|
| SIZE<br>A     | DIMENSION NOTES<br>Dimensions are in inches<br>Unless otherwise specified. +/-1/4" | DWG NO<br><b>INSTALLATION DRAWING<br/>ACWC-018-Q_ (Typical)</b> | REV<br>1 |
| SCALE<br>NONE | DWG-INST_ACWC-018-Q-EXCH_(0620 ).vsd   | SHEET<br>1 / Front-Back-Top-Sides                               |          |



**HEAT EXCHANGER (EXCH)**



**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

SIZE A

DESCRIPTION  
**Typical FLOW OPTIONS for Chiller Circuits**

REV 1

ISSUED 5/2020

SCALE NONE

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

SHEET 2 / Heat Exchanger (EXCH)