**MODEL: CSAC-018-C-RF[1]-__[2]-__[3]-__[4]**

**DESCRIPTION:**
Single refrigerant circuit / single stage air-cooled fluid chiller system setup. Chiller pump indicated on table is typical, with options available for different capacity.

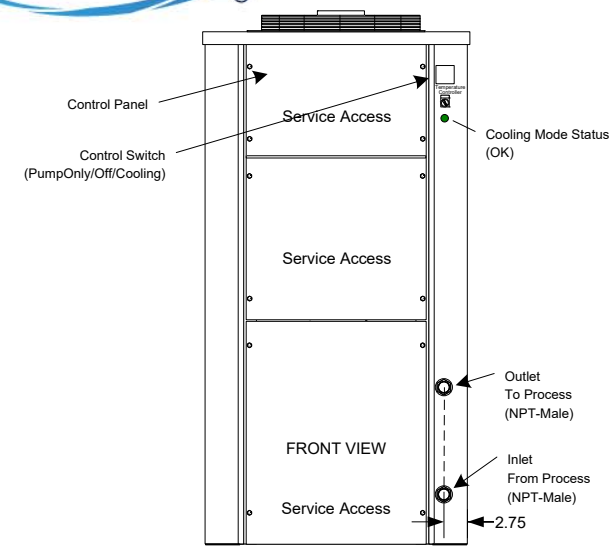
| CAPACITY | | 18,000 BTU /HR | | | | | |
|---|---|---|---|---|---|---|---|
| REFRIGERANT CIRCUIT(S) | | 1 | | | | | |
| COMPRESSOR(S) / REFRIGERANT | | HERMETIC SCROLL / R454B | | | | | |
| CONDENSER FAN(S) / AIRFLOW | | 1 / 3147 CFM | | | | | |
| CONDENSER COILS TYPE | | ALUMINUM MICROCHANNEL | | | | | |
| EVAPORATOR TYPE | | STAINLESS STEEL / COPPER BRAZED PLATE | | | | | |
| FLUID CONNECTIONS | | 1 ¼" MNPT (IN) / 1" MNPT (OUT) | | | | | |
| ELECTRICAL: | | COMPRESSOR(S) | | FAN | PUMP | | |
| | V - Ø - HZ | RLA | LRA | FLA | FLA | MCA | MOCP |
| - 2 | 230 - 1 - 60 | 16 | 87.5 | 3.0 | 6.6 | 29.6 | 45 |
| - 5 | 230 - 3 - 60 | 12.8 | 95 | 3.0 | 3.4 | 22.4 | 35 |
| - 6[5] | 460 - 3 - 60 | 6.4 | 45 | 3.0 | 1.7 | 12.8 | 15 |
| CHILLER PUMP HP / OUTPUT | | 1.0 HP / 30 GPM @ 30 PSI | | | | | |
| DIMENSIONS | | 45" L x 32.5" W x 62.3" H | | | | | |
| WEIGHT (APPROX.) | | 650 LBS | | | | | |

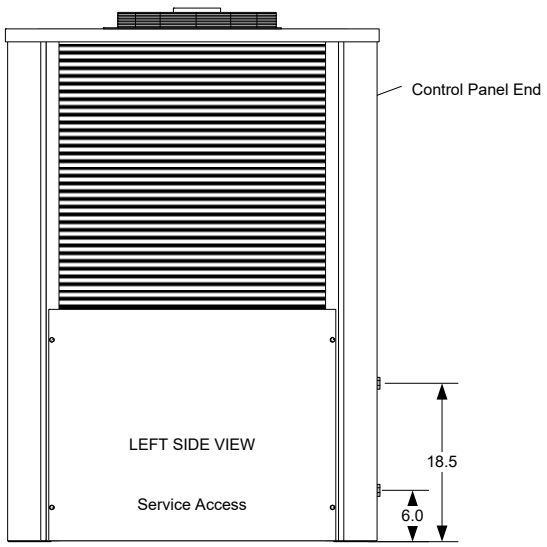
**STANDARD FEATURES:**
- **Controls:** Electronic temperature controller with constant Set Point & Process Value temperature readout.
- **Refrigeration Components:** Efficient scroll compressors, sight glass/moisture indicators, balanced port thermal expansion valves, filter driers, service valves, condenser fan(s) are electronically commutated motors. (ECM)
- **Fluid Components:** Bronze "Y" strainers with 20 mesh stainless steel screen. Pumps are stainless steel centrifugal. All fluid components insulated.
- **Safety Controls:** High and low refrigerant pressures, high and low fluid temperatures, evaporator freeze condition, low water flow switch, thermal overloads for compressors, and thermal overloads for fan motors, and current/thermal overload motor starter safety for pumps.
- **Construction:** Welded steel powder coated frame and full metal cabinet, copper piping connections.
- **Warranty:** One-year parts / five-year compressor.

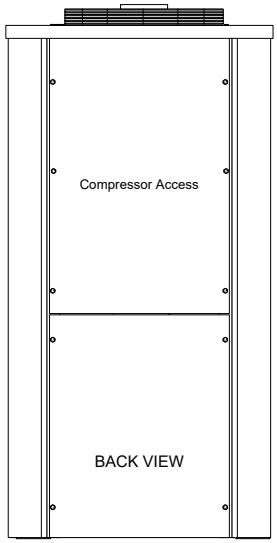
**SUITABLE AMBIENT CONDITIONS/FEATURES: (see footnote 3)**
- **IND:** Indoor use only. Casters on frame, Optional.
- **40:** Suitable for outdoor use with an ambient of 40°F ambient.
- **0:** Suitable for outdoor use to 0°F ambient.
- **M20:** Suitable for outdoor use to -20°F ambient.

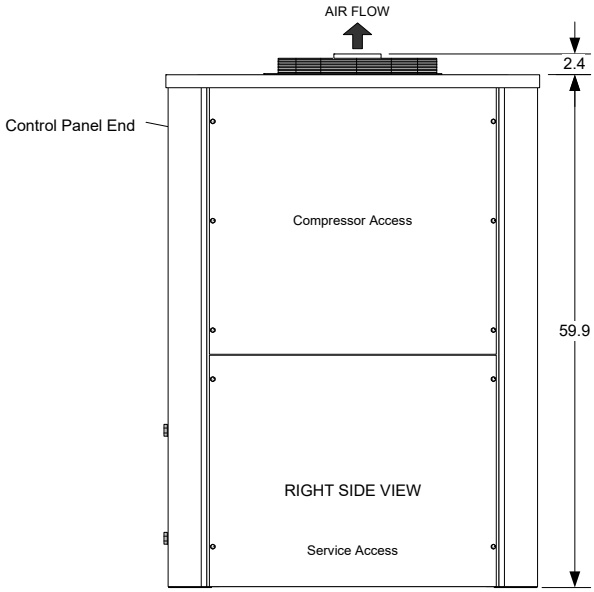
Notes:
- System capacity indicated on table is the approximate BTU/hr based on a leaving fluid temperature of 50°F with an ambient air temperature of 95°F.
- All specifications subject to change without notice. Specify voltage and ambient condition upon ordering.
- MCA: Minimum circuit amps per UL 1995. MOCP: Maximum overcurrent protective device per UL 1995.
- Pump outputs based on specific point on the pump curve which varies depending on system.

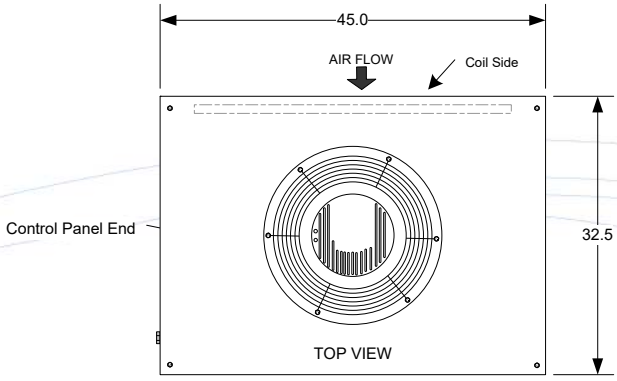
[1] Flow Design (_=Portable, ST=Stationary, RF=Reverse Flow, EXCH=Extra Heat Exchanger, DP/DM=Dual Pump Medical, DR=Dual Return)
[2] Leaving Fluid Temperature (_=Standard, LT=Low Temperature-specify lowest temperature in °F)
[3] Ambient Temperature Conditions (see above)
[4] Electrical Power Code (see above)
[5] Unit will require a 4-wire electrical service with neutral. If only 3 phase 3 wire 480-volt service is available, please notify our sales/technical support staff for proper installation procedures.



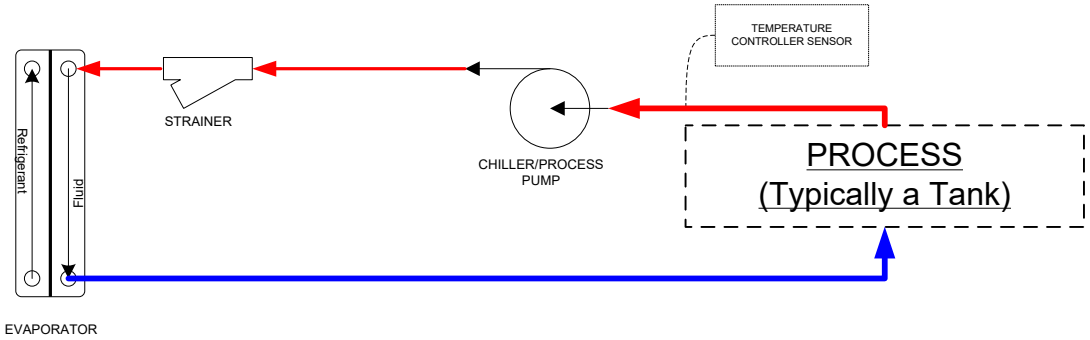

NOTES

- 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: A | DIMENSION NOTES: Dimensions are in inches Unless otherwise specified. +-¼" | DWG NO: **INSTALLATION DRAWING CSAC-018 to 060- (Typical)** REV: 1 |
| ISSUED | 5/16/2023 | SCALE .535 in = 1 ft | DWG-INST_CSAC-018 to 060-_022023.vsd | SHEET 5 / Front-Back-Top-Side Views_RF |

# REVERSE FLOW (RF)




**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 | | | DESCRIPTION | REV |
| DRAWN | ENGINEERING | SIZE A | Typical FLOW OPTIONS for Chiller Circuits | 1 |
| ISSUED | 5/2020 | SCALE NONE | DWG-CKT_ChillerCircuitFlowOptions-Typical_(0520).vsd | SHEET 3 / Reverse Flow (RF) |