TECHNICAL SPECIFICATION



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Model: CSAC-480-D-ST1-__2-__3-__4

Description:

Dual refrigerant circuit / four stage air-cooled fluid chiller system.

CAPACITY		480,000 BTU /HR						
REFRIGERANT CIRCUIT(S) (QTY A/B)		2 (1/1)						
COMPRESSOR(S) / REFRIGERANT		(4) HERMETIC SCROLL / R-410A						
CONDENSER FANS / AIRFLOW		3 / 40,824 CFM						
CONDENSER COIL	ALUMINUM MICROCHANNEL							
EVAPORATOR TYPE		STAINLESS STEEL / COPPER BRAZED						
FLUID CONNECTIONS		2" MNPT (IN/OUT)						
ELECTRICAL:	V - Ø - HZ	COMP RLA / LRA (ea)		FAN FLA (ea)	MCA	MOCP		
- 5	230 - 3 - 60	A/B 34	265	3.6	169.5	200		
- 6	460 - 3 - 60	A/B 16	125	3.6	78.8	90		
DIMENSIONS		88.8" L x 82.3" W x 91" H						
WEIGHT (APPROX.)		1700 LBS						

STANDARD FEATURES:

- Controls: Electronic temperature controller with constant Set Point & Process Value temperature readout. Programmable Logic Controller (PLC) with various temperature and pressure sensors to monitor refrigerant and fluid circuits. Human Machine Interface (HMI) touch panel to provide visual display of system conditions.
- Refrigeration Components Efficient scroll compressors, sight glass/moisture indicators, balanced port thermal expansion valves, filter driers, service valves and/or service ports, condenser fan(s) are electronically commutated motors (ECM) with variable speed control of head pressure.
- Process Fluid Components: Bronze and/or pvc "Y" strainer with 20 mesh stainless steel screen.
- Safety Controls: High and low refrigerant pressures, high and low fluid temperatures, evaporator freeze condition, low water flow switch, thermal overloads and current monitors for compressors, and thermal overloads for fan motors.
- Construction: Construction: Welded steel powder coated frame and full metal cabinet, pvc and/or copper piping connections.
- Warranty: One-year parts / five-year compressor.

SUITABLE AMBIENT CONDITIONS/FEATURES: (see footnote 3)

- IND: Indoor use only.
- 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

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.

TechSpec_CSAC-480-D-ST-_--_0923.docx

¹ Flow Design (=Portable, ST=Stationary, RF=Reverse Flow, EXCH=Extra Heat Exchanger, DP=Dual Pump, DR=Dual Return)

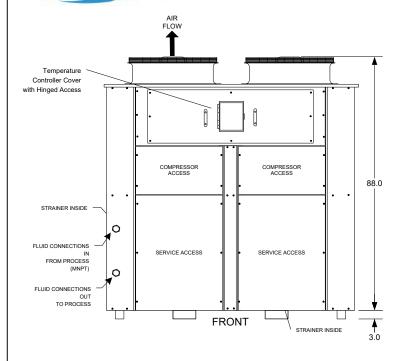
² Leaving Fluid Temperature (=Standard, LT=Low Temperature-specify lowest temperature in °F)

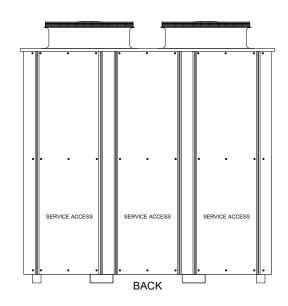
³ Ambient Temperature Conditions (see above)

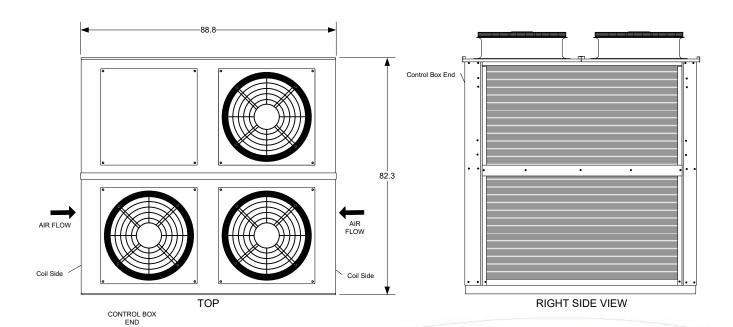
⁴ Electrical Power Code (see above)

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NOTES

- Unit should be installed with at least 4' clearance on all sides and unrestricted above the unit.
- Dimensions are approximate. (inches)
 All specifications subject to change without notice

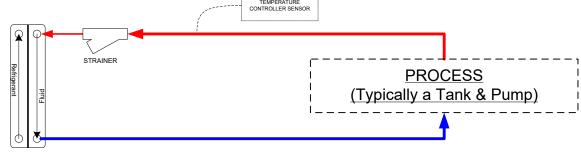
COLD SHOT CHILLERS							7 th openingations subject to sharing without notice.		
		SIZE	SIZE DIMENSION NOTES		DWG NO			REV	
1.7			Dimensions are in inches		INSTALLATION DRAWING			. !	
DRAWN	ENGINEERING	A	A Unless otherwise specified. +-1/4"		CSAC-040 (Typical)			1 1	
ISSUED	9/12/2023	SCALE	NONE		DWG-INST_040_0423.vsd	SHEET	1 / Front-Back-Side	-Top View	



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COLD CHILLED FLUID

HOT FLUID

COLD FLUID

WARM FLUID

EVAPORATOR

NOTES All designs are subject to change without **COLD SHOT CHILLERS** The diagrams are to be used as a basic flow diagram only. DESCRIPTION **REV** - Color Code is for relative temperature comparison. **Typical FLOW OPTIONS for Chiller Circuits** Additional components may be included. DRAWN **ENGINEERING** Evaporator may be located in tank. ISSUED 5/2020 SCALE NONE 5 / Stationary (ST) DWG-CKT_ChillerCircuitFlowOptions-Typical_(0520).vsd SHEET