Model: CSAC-1200-D-DP[1]-__[2]-__[3]-__[4]

DESCRIPTION:

Dual refrigerant circuit / four stage air-cooled portable fluid 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.

CAPACITY		1,200,000 BTU /HR					
REFRIGERANT CIRCUIT(S) (QTY A/B)		2 (2/2)					
COMPRESSOR(S) / REFRIGERANT		(4) HERMETIC SCROLL / R-454B					
CONDENSER FAN(S) / AIRFLOW		8 / 12,000 CFM(each)					
CONDENSER COILS TYPE		ALUMINUM MICROCHANNEL					
EVAPORATOR TYPE		STAINLESS STEEL / COPPER BRAZED					
FLUID CONNECTIONS		4" -150# FLANGE (IN/OUT)					
ELECTRICAL:	V - Ø - HZ	COMP RLA / LRA (ea)		FAN FLA (ea)	(No*) PUMP FLA	MCA	MOCP
- 6	460 - 3 - 60	43.45	294.0	5.17	(1) 11.6 (2) 11.6	299.9	325
CHILLER PUMP HP / OUTPUT (1)		10 HP / 225 GPM @ 30 PSI					
PROCESS PUMP HP / OUTPUT (2)		10 HP / 225 GPM @ 30 PSI					
TANK SIZE / CONSTRUCTION		625 GALLON / HIGH-DENSITY POLYETHYLENE					
DIMENSIONS		288.5" L x 88-1/4" W x 91" H					
WEIGHT (APPROX.)		5600 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 ports, condenser fan(s) are electronically commutated motors (ECM) with variable speed control of head pressure.
- **Process Fluid Components:** PVC "Y" strainers with 20 mesh stainless steel screen. Pumps are stainless steel centrifugal. Tanks are insulated with fluid level sensor and/or sight tube, spin on lid and drain port.
- **Safety Controls:** High and low refrigerant pressure, high and low fluid temperature, freeze, low water flow, internal overloads, thermal overload circuit breakers and/or safety fuses for compressors, pumps, and fan motors.
- **Construction:** Welded steel powder coated frame and full metal cabinet, PVC flange connections.
- **Warranty:** One-year parts / five-year compressor.

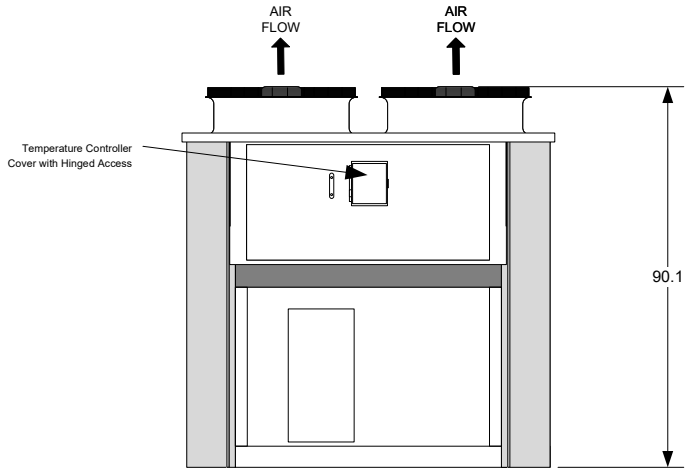
SUITABLE AMBIENT CONDITIONS/FEATURES: (see footnote 3)

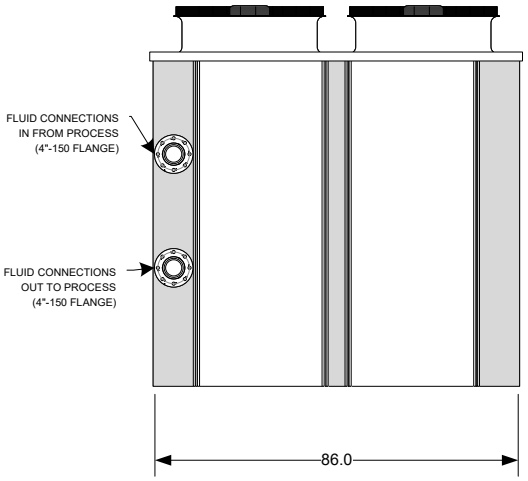
- **IND:** Indoor use only.
- **40:** Suitable for outdoor use with an ambient of 40°F ambient.
- **0:** Suitable for outdoor use to 0°F ambient.
- **M20:** Suitable for outdoor use to -20°F ambient.

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=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)





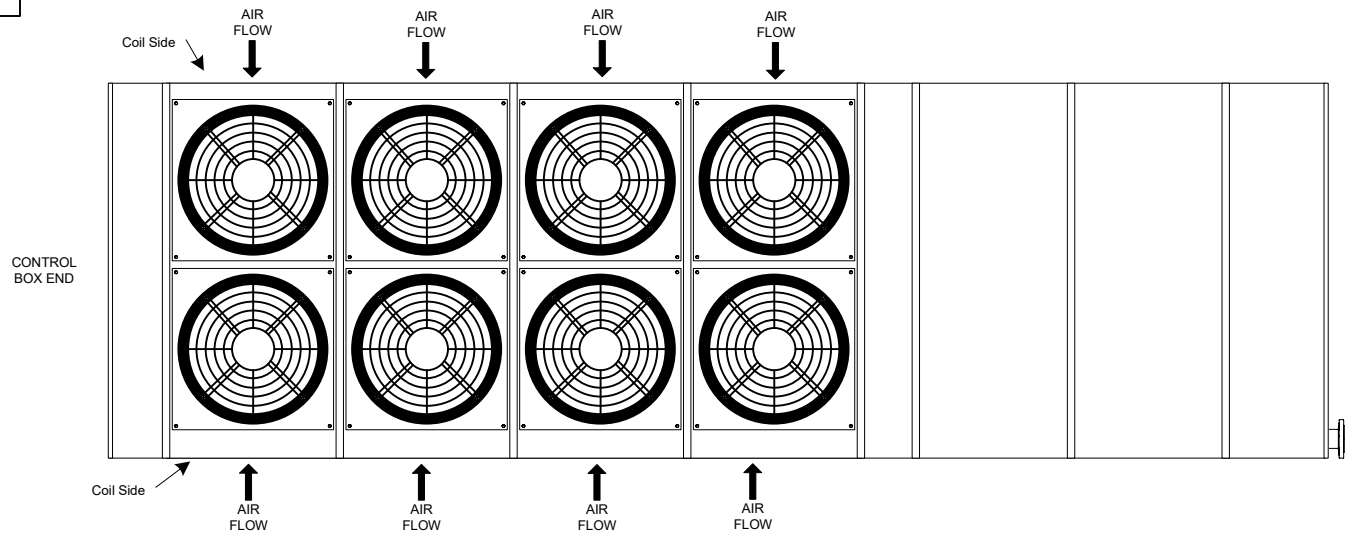
BACK

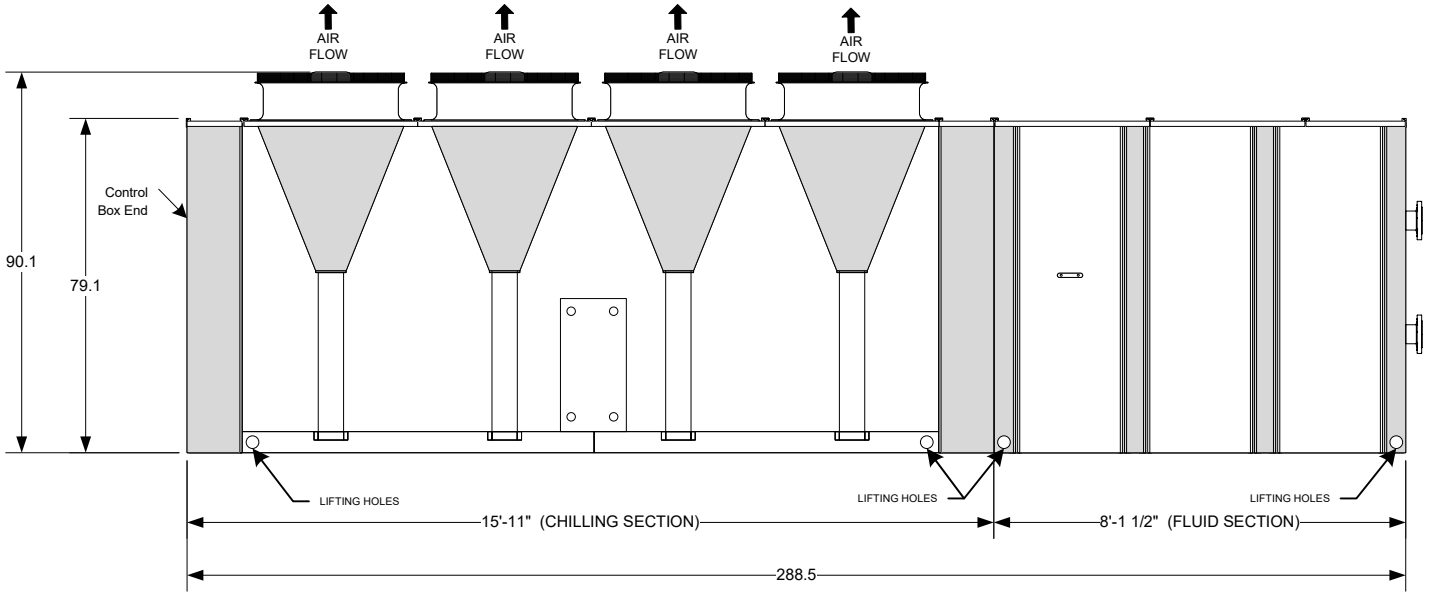
NOTES

- Unit should be installed with at least 4' clearance on all sides and unrestricted above the unit.
- Dimensions are approximate. (inches)
- Corner Weights are based on "Empty" (No Fluid)
- All specifications subject to change without notice.

COLD SHOT CHILLERS		SIZE	DIMENSION NOTES	DWG NO	REV
DRAWN	ENGINEERING	A	Dimensions are in inches Unless otherwise specified. +-1/4"	**INSTALLATION DRAWING** **CSAC-(960to1200)-D-DP-**	1
ISSUED	7/11/2025	SCALE	NONE	DWG-INST_CSAC-(960to1200)-D_0725.vsd	SHEET 1 / Front/Back View

TOP





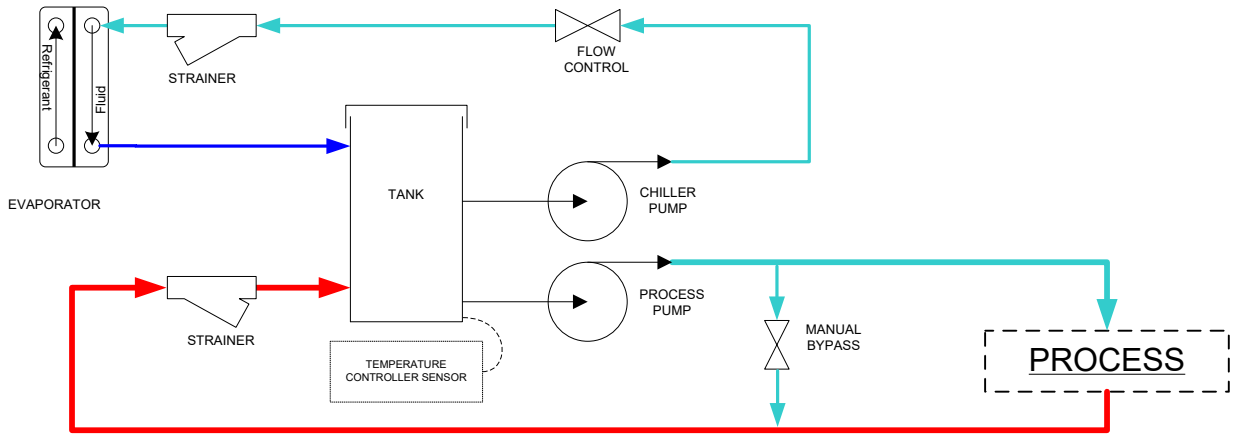
RIGHT SIDE VIEW

NOTES

- Unit should be installed with at least 4' clearance on all sides and unrestricted above the unit.
- Dimensions are approximate. (inches)
- Corner Weights are based on "Empty" (No Fluid)
- All specifications subject to change without notice.

COLD SHOT CHILLERS		SIZE	DIMENSION NOTES	DWG NO / REV
DRAWN	ENGINEERING	A	Dimensions are in inches Unless otherwise specified. +-1/4"	**INSTALLATION DRAWING** **CSAC-(960to1200)-D-DP-** REV 1
ISSUED	7/11/2025	SCALE NONE	DWG-INST_CSAC-(960to1200)-D_0725.vsd	SHEET 2 / Top/Right View

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		SIZE	DESCRIPTION	REV
DRAWN	ENGINEERING	A	Typical FLOW OPTIONS for Chiller Circuits	1
ISSUED	5/2020	SCALE NONE	DWG-CKT_ChillerCircuitFlowOptions-Typical_(0520).vsd	SHEET 6 / Dual Pump (DP)