TECHNICAL SPECIFICATION



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Model: CSAC-600-D-DP1-__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		600,000 BTU /HR							
REFRIGERANT CIRC	2 (1/1)								
COMPRESSOR(S) / I	(4) HERMETIC SCROLL / R-410A								
CONDENSER FAN(S	3 / 40,824 CFM								
CONDENSER COILS TYPE		ALUMINUM MICROCHANNEL							
EVAPORATOR TYPI	STAINLESS STEEL / COPPER BRAZED								
FLUID CONNECTION	3" #150 FLANGE (IN/OUT)								
ELECTRICAL:	V - Ø - HZ	COMP RLA /	LRA (ea)	FAN FLA (ea)	(No*) PUMP FLA	MCA	MOCP		
- 5	230 - 3 - 60	A/B 49.3	315	3.6	(1) 17.5 (2) 17.5	280.5	300		
- 6	460 - 3 - 60	A/B 23.6	158	3.6	(1) 8.7 (2) 8.7	128.5	150		
CHILLER PUMP HP / OUTPUT (1)		7.5 HP / 225 GPM @ 35 PSI							
PROCESS PUMP HP / OUTPUT (2)		7.5 HP / 225 GPM @ 35 PSI							
TANK SIZE / CONSTRUCTION		300 GALLON / HIGH-DENSITY POLYETHYLENE							
DIMENSIONS	88.8" L x 82.3" W x 91" H								
WEIGHT (APPROX.)		2200 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:** PVC "Y" strainers with 20 mesh stainless steel screen. Pumps are stainless steel centrifugal. Tanks are insulated with fluid level sensor, spin on lid and drain port. Portable systems will include a flow control valve.
- 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.

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

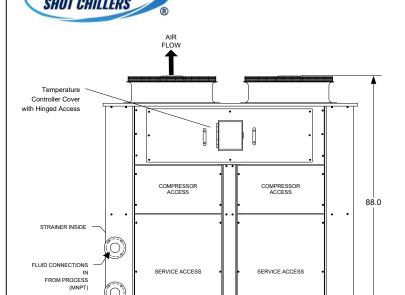
² Leaving Fluid Temperature (_=Standard, LT=Low Temperature-specify lowest temperature in °F)

³ Ambient Temperature Conditions (see above)

⁴ Electrical Power Code (see above)

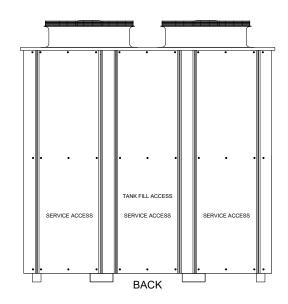
TECHNICAL SPECIFICATION

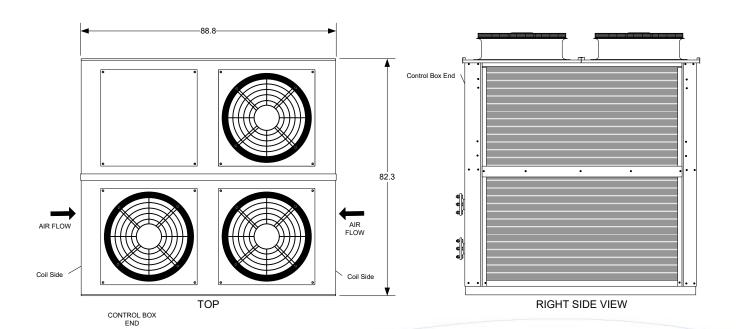
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FRONT

FLUID CONNECTIONS OUT TO PROCESS





3.0

STRAINER INSIDE

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						, in opcomodulo to cubject to change maneat neares.		
		SIZE	SIZE DIMENSION NOTES		DWG NO			REV
1.7		Dimensions are in inche		es	INSTALLATION DRAWING			
DRAWN	ENGINEERING	A	Unless otherwise specified. +-1/4"		CSAC-050			1
ISSUED	5/24/2023	SCALE	NONE		DWG-INST 050 0423.vsd	SHEET	1 / Front-Back-Side	-Top View



Line Guide

OLD CHILLED FLUID

COLD FLUID

TECHNICAL SPECIFICATION

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