## **TECHNICAL SPECIFICATION**



WWW.WATERCHILLERS.COM

Model: CSAC-300-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		300,000 BTU /HR							
REFRIGERANT CIR	2 (1/1)								
COMPRESSOR(S) /	(4) HERMETIC SCROLL / R-410A								
CONDENSER FANS / AIRFLOW		2 / 27,216 CFM							
CONDENSER COILS TYPE		ALUMINUM MICROCHANNEL							
EVAPORATOR TYPE		STAINLESS STEEL / COPPER BRAZED							
FLUID CONNECTIO	2" MNPT (IN/OUT)								
ELECTRICAL:	V - Ø - HZ	COMP RLA / LRA (ea)		FAN FLA (ea)	(No*) PUMP FLA	MCA	MOCP		
- 5	230 - 3 - 60	A/B 26	190	3.6	(1) 8.4 (2) 8.4	142	150		
- 6	460 - 3 - 60	A/B 13	100	3.6	(1) 3.5 (2) 3.5	69.4	80		
CHILLER PUMP HP / OUTPUT (1)		3.0 HP / 95 GPM @ 30 PSI							
PROCESS PUMP HP / OUTPUT (2)		3.0 HP / 95 GPM @ 30 PSI							
TANK SIZE / CONSTRUCTION		300 GALLON POLYETHYLENE TANK							
DIMENSIONS		88.8" L x 82.3" W x 91" H							
WEIGHT (APPROX.)		1900 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. Pumps are stainless steel centrifugal. Tanks are insulated with spin on lid, fill port, drain and fluid level sensor. Portable systems will include a bypass flow valve.
- 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, and current/thermal overload motor starter safety for pumps.
- 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.
- · Pump outputs based on specific point on the pump curve which varies depending on system

1

<sup>&</sup>lt;sup>1</sup> Flow Design ( =Portable, ST=Stationary, RF=Reverse Flow, EXCH=Extra Heat Exchanger, DP=Dual Pump, DR=Dual Return)

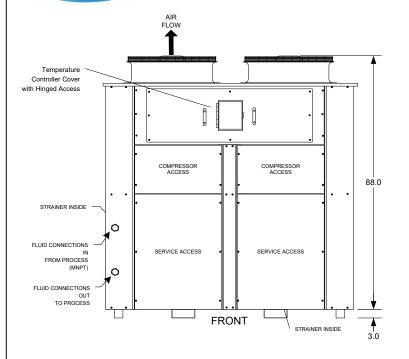
<sup>&</sup>lt;sup>2</sup> Leaving Fluid Temperature (\_=Standard, LT=Low Temperature-specify lowest temperature in °F)

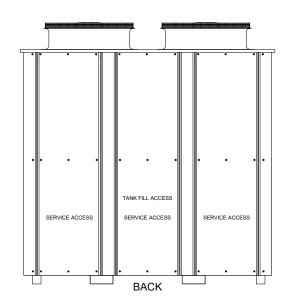
<sup>&</sup>lt;sup>3</sup> Ambient Temperature Conditions (see above)

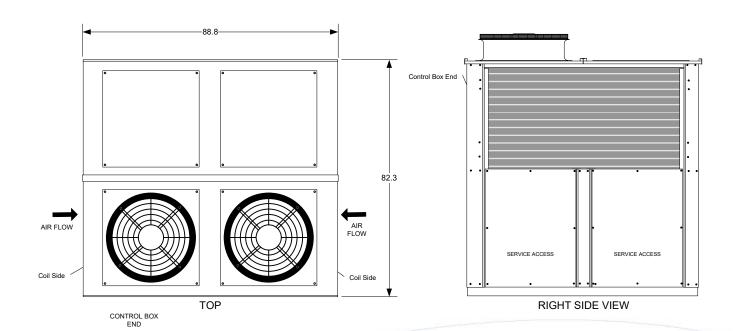
<sup>&</sup>lt;sup>4</sup> Electrical Power Code (see above)

# **TECHNICAL SPECIFICATION**

WWW.WATERCHILLERS.COM







#### 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 iii oposinoationo subject to shange without hotise.		
		SIZE	ZE DIMENSION NOTES		DWG NO			REV
17			Dimensions are in inches		INSTALLATION DRAWING			
DRAWN	ENGINEERING	A	A Unless otherwise specified. +-1/4"		CSAC-025-030			1
ISSUED	4/28/2023	SCALE	NONE		DWG-INST_025-0300423.vsd	SHEET	1 / Front-Back-Side	-Top View



Line Guide

OLD CHILLED FLUID

COLD FLUID

## **TECHNICAL SPECIFICATION**

WWW.WATERCHILLERS.COM

