# TECHNICAL SPECIFICATION



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Model: ACWC-300-GC-EXCH<sup>1</sup>-\_\_<sup>2</sup>-\_\_<sup>3</sup>-\_\_<sup>4</sup>

## **Description:**

Two stage air-cooled portable water chiller system with additional process system heat exchanger. System capacity indicated on table is the approximate BTU/hr based on a leaving fluid temperature of 35°F with an ambient air temperature of 95°F. (Considers 50% glycol as leaving fluid and lower leaving fluid temp).

CAPACITY	181,521 BTU /HR						
±5% AT 35° LCW							
COMPRESSOR / F	TANDEM HERMETIC SCROLLS / R410A						
CONDENSER FAN	2 / 20,900 CFM						
CONDENSER COI	MICROCHANNEL						
<b>EVAPORATOR TY</b>	STAINLESS STEEL / COPPER BRAZED						
HEAT EXCHANGE	STAINLESS STEEL / COPPER BRAZED						
FLUID CONNECTI	2" MNPT (IN/OUT)						
ELECTRICAL:	V - Ø - HZ	COMP RLA / LRA (ea)		FAN FLA (ea)	PUMP FLA	MCA	MOCP
- 5	230 - 3 - 60	48.1	245	6.6	7.0	128.4	175
- 6	460 - 3 - 60	18.6	125	3.3	3.5	48.5	60
PUMP HP / OUTPU	<b>PUMP HP / OUTPUT</b> 3.0 HP / 95 GPM @ 30 PSI						
TANK SIZE / CON	220 GALLON / 304 STAINLESS STEEL TANK WITH LID						
DIMENSIONS	88 ¼" L x 80" W x 61" H						
WEIGHT (APPRO)	1850 LBS						

Note: 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.

# STANDARD FEATURES:

- Controls: Electronic programmed temperature controller with constant (set point & process) temperature readout.
- **Refrigeration Components:** Efficient scroll compressors, sight glass/moisture indicators, balanced port expansion valves, filter drier, pump down valves, fan cycling head pressure controls.
- **Process Fluid Components:** Heat exchanger for separation of chilled fluid circuit from process fluid circuit. Bronze "Y" strainer with 20 mesh stainless steel screen. Pumps are stainless steel centrifugal. Tanks are insulated with shoe box lid. fill port, and fluid level sensor. 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, temperature relief fusible plug on liquid lines of each circuit.
- Construction: Galvanized steel frame, powder coated carbon steel cabinet, copper piping connections.
- Warranty: One year parts / five year compressor.

### SUITABLE AMBIENT CONDITIONS/FEATURES:

- 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. Includes low ambient fan speed controls with (LT) models.
- M20: Suitable for outdoor use to -20°F ambient. Includes low ambient fan speed controls. External wind baffles, optional.

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

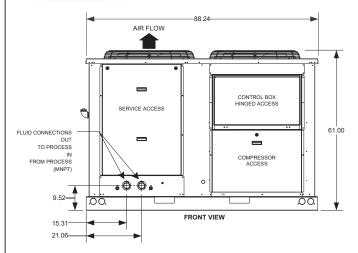
<sup>&</sup>lt;sup>2</sup> Leaving Fluid Temperature (=Standard, LT=Low Temperature-specify lowest temperature in °F)

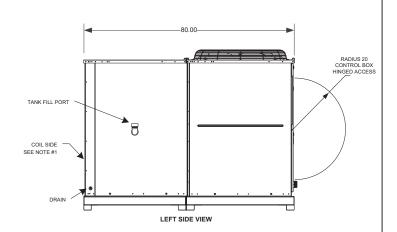
<sup>&</sup>lt;sup>3</sup> Ambient Temperature Conditions (see above)

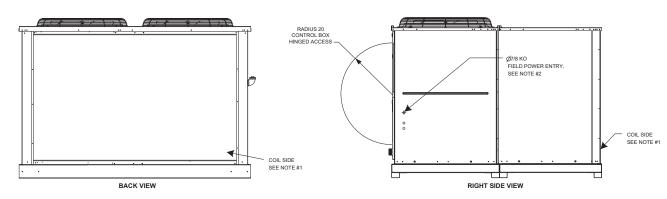
<sup>&</sup>lt;sup>4</sup> Electrical Power Code (see above)

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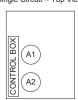


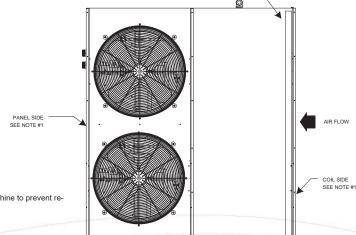






Compressor Layout Single Circuit – Top View





TOP VIEW

# NOTES:

- Unit must have clearances for air flow/service access as follows: (air must be directed away from machine to prevent re-circulating air back into machine coil sides.) Top — Do not restrict.
- Coil End 42 in. from solid surface for airflow.

  Panel Side 48 in. per NEC (National Electrical Code).

  2. A 7/8 in. diameter hole is provided for locating field power wiring. Actual hole size required depends on field wire sizing.
- 3. Temperature relief device located on suction line, liquid line of each circuit are equipped with a 1/4" flare field connection. Do not cap or otherwise obstruct temperature relief device.
- All chilled fluid piping should be insulated.
- 5. Dimensions are in inches unless otherwise specified.
  6. Unit can be handled using the fork truck lift pockets front of 7. Design and layout may change depending on parts or mar 8. Contact Cold Shot Chillers for details or other information. Dimensions are in inches unless otherwise specified.

  Unit can be handled using the fork truck lift pockets front of unit ONLY. Do not lift from back.
  - Design and layout may change depending on parts or manufacturing without notice.

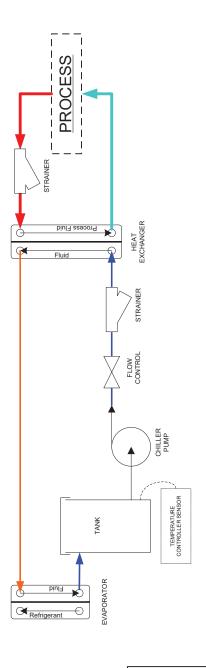
COLD SHOT CHILLERS								
		SIZE	SIZE DIMENSION NOTES		DWG NO			REV
		1	Dimensions are in inches		INSTALLATION DRAWING			
DRAWN	ENGINEERING	A	unless otherwise specified. +-1/4"					1 1
ISSUED	5/20/2020	SCALE	NONE		DWG-INST300-GC(0520).vsd	SHEET	1	



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# **HEAT EXCHANGER (EXCH)**



-COLD CHILLED FLUID

HOT FLUID

Line Guide

NOTES	is are subject to change without	m only.  DESCRIPTION  To relative temperature	comparison.  - Additional components may be included.  - Evaporator may be located in tank.	NONE DWG-CKT_ChillerCircuitFlowOptions-Typical_(0520).vsd SHEET
	- All design notice.	SIZE flow diagran	comparisor Additional - Evaporato	SCALE
	COLD CUOT CUILLEDS	SHOT CHILLERS	ENGINEERING	5/2020 s
		200	DRAWN	ISSUED