Cold Shot Chillers®



BUGGED DEPENDABILITY

50 through 80-Ton Air-Cooled Portable Water Chillers



(60-Ton unit shown)

FEATURES

- Carlyle Semi-Hermetic Reciprocating Compressors with Electrical Multi-Stage Unloading Down to 33%
- · Stainless Steel Brazed Plate Evaporators
- · Brass Pump Down Service Valves
- Large Copper Condensing Coil with Aluminum Fins
- Powder Coated, Heavy Guage Steel Cabinet
- Strong Stainless Steel Centrifugal Pumps
- · Oversized Magnetic Contactors
- High-Density Polyethylene Tanks

BENEFITS

- Long Life Dependable Economical to Operate
- Compact Efficiency
- Allows for Field Service Without Dissassembly
- · Easy Maintenance and Effecient
- Rugged Protection While Allowing for Easy Maintenance and Wash Down
- * High Flow Long Life Dependable
- Rugged Dependability Long Life
- · Rugged Long Life Eco-Friendly





"ECONOMICALLY PRICED DEPENDABILITY"

TECHNICAL SPECIFICATION

Model: ACWC-600-E-EST¹-__²-__³-__⁴

Description:

Multi stage portable air-cooled water chiller system. To provide approximately 600,000 Btu/hr. of cooling capacity with a leaving fluid temperature of 50°F with an ambient air temperature of 95°F.

CAPACITY			600,000 BTU /HR							
±5% AT 50° LCWT / 95°F AMBIENT										
COMPRESSOR / REFRIGERANT		(2) SEMI-HERMETIC RECIPROCATING / R-422D								
CONDENSER FANS / AIRFLOW		4 / 35,000 CFM								
CONDENSER COILS TYPE		COPPER TUBE / ALUMINUM FIN								
EVAPORATOR TYPE		STAINLESS STEEL / COPPER BRAZED								
FLUID CONNECTIONS		3" 150 FLANGE (IN/OUT)								
ELECTRICAL:	V - Ø - HZ	COMP RLA / LRA		COMP RLA / LRA		(No*) FAN FLA (ea)		MCA		
-1	575 - 3 - 60	A1 3	36.5	164	B1	40.4	176	(1-4) 3.4		100.6
- 5	230 - 3 - 60	A1 8	89.7	446	B1	106.4	506	(1,2) 5.5	(3,4) 6.6	246.9
- 6	460 - 3 - 60	A1 4	43.6	223	B1	46.8	253	(1,2) 2.8	$(3,4)\ 3.3$	114.3
DIMENSIONS		8'4" L X 7'5" W X 6'7" H								
WEIGHT (APPROX.)		4100 LBS								

Note: All specifications subject to change without notice. Specify voltage and ambient condition upon ordering. MCA: Minimum circuit amps per UL 1995

STANDARD FEATURES:

- Controls: Electronic temperature controller with constant (set point & process) temperature LED readout.
- **Refrigeration Components:** Semi-hermetic reciprocating compressors, electric unloaders, sight glass/moisture indicators, balance port expansion valves, filter drier, pump down valves, fan cycling head pressure controls.
- **Process Fluid Components:** PVC "Y" strainer with 20 mesh stainless steel screen.
- **Safety Controls:** High/low pressure safety, oil pressure safety, "freeze safety" with auto reset, "low water flow safety" with manual reset, internal overloads, thermal overloads, circuit breakers and/or safety fuses for compressors and fan motors.
- **Construction:** Galvanized steel frame, powder coated carbon steel cabinet.
- Warranty: One year parts / five year compressor.

SUITABLE AMBIENT CONDITIONS/FEATURES:

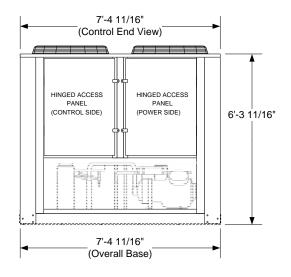
- **IND:** Indoor use only.
- **40:** Suitable for outdoor use with an ambient of 40°F ambient.
- **0:** Suitable for outdoor use to 0°F ambient. Includes low ambient fan speed controls.
- M20: Suitable for outdoor use to -20°F ambient. Includes with low ambient fan speed controls.

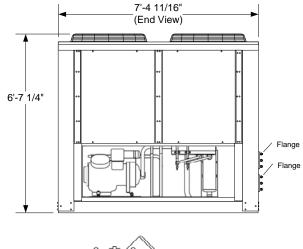
¹ Flow Design (_=Portable, ST=Stationary, RF=Reverse Flow, EXCH=Extra Heat Exchanger, DP=Dual Pump, DR=Dual Return)

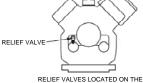
² Leaving Fluid Temperature (_=Standard, LT=Low Temperature-specify lowest temperature in °F)

³ Ambient Temperature Conditions (see above)

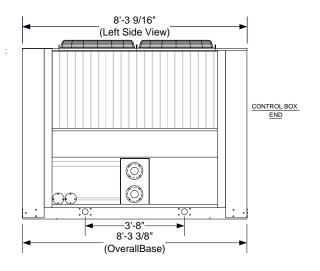
⁴ Electrical Power Code (see above)

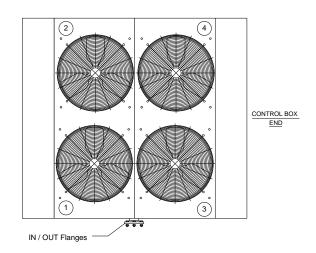






COMPRESSORS ARE EQUIPPED WITH A 3/8" SAE FLARE FOR





PAGE NOTES

1. 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 in any way. Ends — 5 ft Sides — 6 ft

2. Mounting holes (17/32" Diameter) may be used to mount unit to concrete pad. They are not recommended for mounting unit to spring isolators. If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.

- Field Power Supply Connection: 2½" Diameter
 Relief valves located on the compressors are equipped with a 3/8" SAE flare for field

- connection.

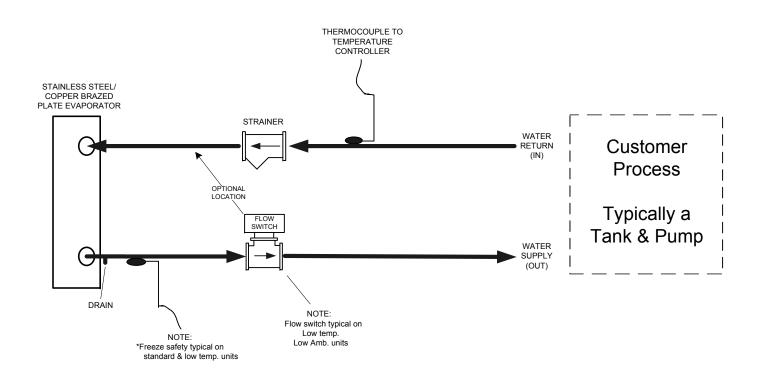
 5 All chilled fluid piping should be insulated.

 6. Dimensions are in inches +/- ¼".

 7. Design and layout may change depending on parts or manufacturing without notice. Notify Cold Shot Chillers for any details needed based on construction.

 8. Contact Cold Shot Chillers for details or other information.

0.1101.401.11		INSTALLATION DRAWING							
Cold Shot Chillers		ACWC-600-E-EST_ (50Ton Chiller) TYPICAL							
ENGINEERING	SIZE A	VIEW OverallLayout	DWG NO REV DWG ACWC-600-E-EST (OverallLayout) (0416a).vsd 1						
5/11/2016	SCALE	N.T.S.	SHEET 1						



	SHOT CHILLERS			
COLD SHOT CHILLERS		SIZE	FSCM NO	DWG NO REV
DRAWN ENGINEERING				CHILL WATER CIRCUIT
		A		EST "Stationary – with Flow Switch" (Typical)
ISSUED	11/2011	SCALE	NA	DWG-CHW_FlowDesigns-EST_(1111).vsd SHEET 6

