

Cold Shot Chillers®



**RUGGED
DEPENDABILITY**

25, 30 and 40-Ton Air-Cooled Portable Water Chillers



(40-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 Gauge Steel Cabinet
- Strong Stainless Steel Centrifugal Pumps
- Oversized Magnetic Contactors
- Stainless Steel Tank

BENEFITS

- Long Life - Dependable - Economical to Operate
- Compact Efficiency
- Allows for Field Service Without Disassembly
- Easy Maintenance and Efficient
- Rugged Protection While Allowing for Easy Maintenance and Wash Down
- High Flow - Long Life - Dependable
- Rugged Dependability - Long Life
- Lifetime Warranty



TECHNICAL SPECIFICATIONS

CAPACITY ± 5% AT 50° LCWT/95° AMBIENT	300,000 BTU/HR	360,000 BTU/HR	480,000 BTU/HR
MODEL	ACWC-300-E-EST	ACWC-360-E-EST	ACWC-480-E-EST
COMPRESSORS	SEMI-HERMETIC RECIPROCATING	SEMI-HERMETIC RECIPROCATING	SEMI-HERMETIC RECIPROCATING
EVAPORATOR	STAINLESS STEEL / COPPER BRAZED	STAINLESS STEEL / COPPER BRAZED	STAINLESS STEEL / COPPER BRAZED
FLUID CONNECTION (IN/OUT)	2" MNPT	2" MNPT	2" MNPT
FANS / CFM	2 / 15,700	2 / 15,700	3 / 23,700
CONDENSER COILS	COPPER TUBE / ALUMINUM FIN	COPPER TUBE / ALUMINUM FIN	COPPER TUBE / ALUMINUM FIN
VOLTAGE/PHASE/ 60HZ	208/230/3 460/3	208/230/3 460/3	208/230/3 460/3
MINIMUM CIRCUIT AMPS	125 61	146 69	203 91
DIMENSIONS (APPROX.)	6' W x 11' L x 5' H	6' W x 11' L x 5' H	6' W x 15' L x 5' H
WEIGHT (APPROX.)	2000 LBS	2200 LBS	2900 LBS

CONTROLS:

Digital temperature controller with constant (set point/process temperature) LED readout.

REFRIGERATION COMPONENTS:

Semi-Hermetic Reciprocating compressors, sight glass/moisture indicators, balanced port expansion valves, filter driers, service valves, stainless steel/copper brazed plate evaporators, fan cycling head pressure controls.

PROCESS FLUID COMPONENTS:

Bronze "Y" strainer with 20 mesh stainless steel screen.

SAFETY CONTROLS:

High/low pressure safety, oil pressure safety, internal overloads, thermal overloads or safety fuses for fan motors, "freeze safety" with auto reset, "low water flow safety" with manual reset.

OPERATING TEMPERATURES:

Process fluid: 42°F to 70°F for standard units (20°F to 70°F for low leaving fluid temperature units)

Ambient air: 40°F to 115° for standard units (0°F to 115°F for outdoor units with optional low ambient modifications)

CONSTRUCTION:

Galvanized steel frame, powder coated carbon steel cabinet.

WARRANTY:

One Year Parts; Five Year Compressor.

OPTIONS

- Coil Coating
- E-Z Clean Filter
- Low Ambient Modification
- Split System
- Line Phase Monitor Protection
- Low Leaving Fluids
- Spare Parts Kit
- 1 Year Labor Warranty

Compare our Price and Warranty

Note: All specifications subject to change without notice.

Cold Shot Chillers

"ECONOMICALLY PRICED DEPENDABILITY"



TECHNICAL SPECIFICATION

Model: ACWC-360-E-EST¹-__²-__³-__⁴

Description:

Three stage portable air-cooled water chiller system. To provide approximately 360,000 Btu/hr of cooling capacity with a leaving fluid temperature of 50°F with an ambient air temperature of 95°F.

CAPACITY ±5% AT 50° LCWT / 95°F AMBIENT		360,000 BTU /HR			
COMPRESSOR / REFRIGERANT		SEMI-HERMETIC RECIPROCATING / R-422D			
CONDENSER FANS / AIRFLOW		2 / 15,700 CFM			
CONDENSER COILS TYPE		COPPER TUBE / ALUMINUM FIN			
EVAPORATOR TYPE		STAINLESS STEEL / COPPER BRAZED			
FLUID CONNECTIONS		2" MNPT (IN/OUT)			
ELECTRICAL:	V - Ø - HZ	COMP RLA / LRA		FAN FLA (ea)	MCA
-1	575 - 3 - 60	38.5	176	3.4	54.9
- 5	230 - 3 - 60	106.5	505	6.2	145.5
- 6	460 - 3 - 60	50.0	253	3.1	68.7
DIMENSIONS		10'8" L x 5'4" W x 4'4" H			
WEIGHT (APPROX.)		2200 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 compressor, electric unloaders, sight glass/moisture indicators, balance port expansion valves, filter drier, pump down valves, fan cycling head pressure controls.
- **Process Fluid Components:** Bronze "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, 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 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)

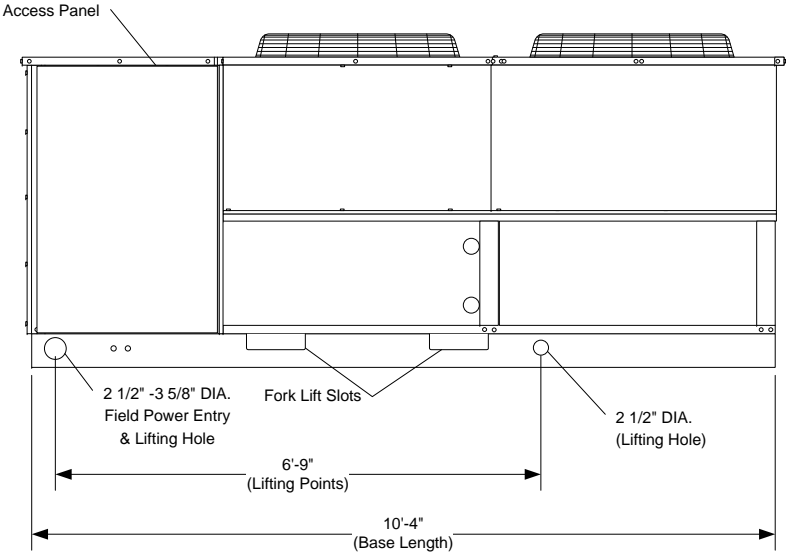
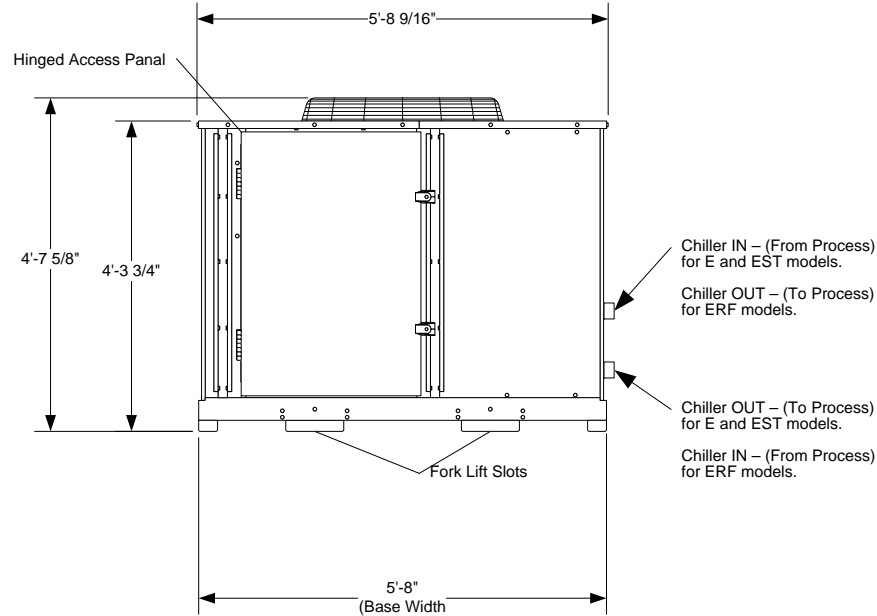
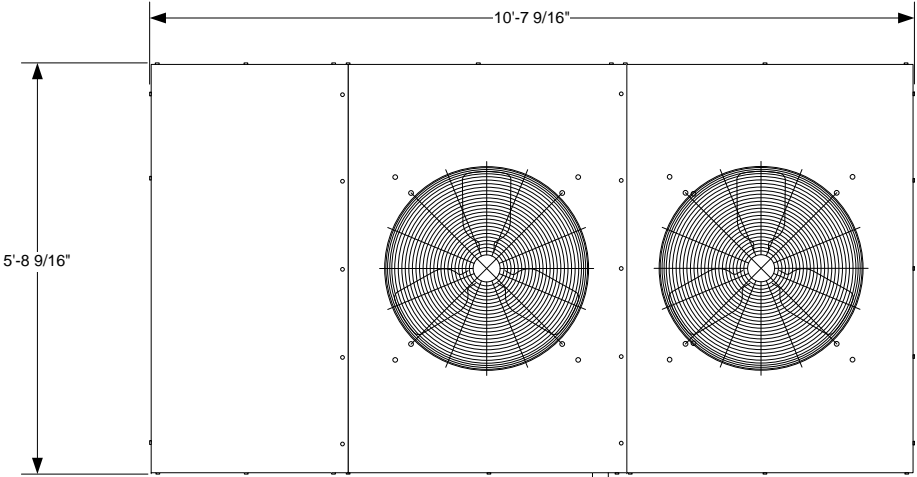
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NOTES

1. All specifications and design subject to change without notice.

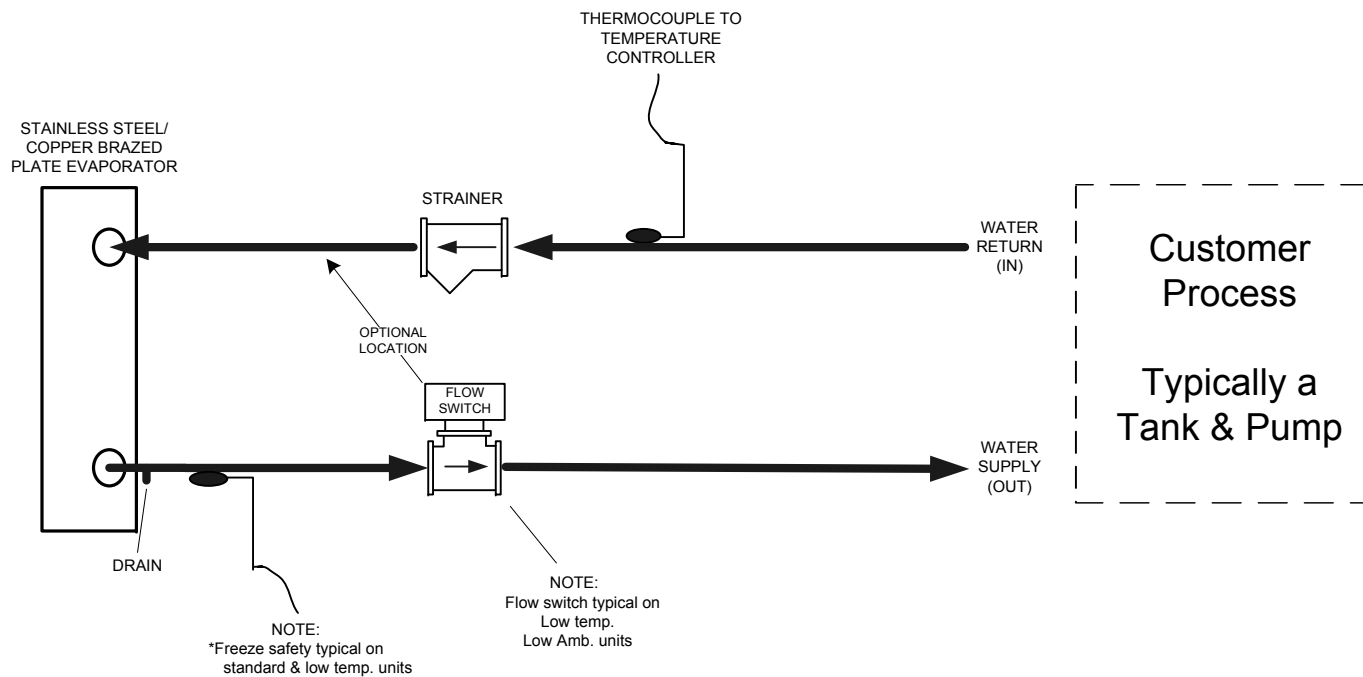


COLD SHOT CHILLERS

DRAWN ENGINEERING

ISSUED 8/12/2013

SIZE	SHEET	DWG NO	REV
A	Front-Left-Top	ACWC-300/360-(E, EST, ERF) Typical 25 and 30 Ton Chiller Model	1
SCALE	1/32 : 1	DWG-INST_ACWC-360-(E-EST-ERF)_(0813).vsd	SHEET 1 OF 9



COLD SHOT CHILLERS

DRAWN ENGINEERING

ISSUED 11/2011

SIZE

A

FSCM NO

NA

DWG NO

CHILL WATER CIRCUIT
EST-_-_- "Stationary – with Flow Switch" (Typical)

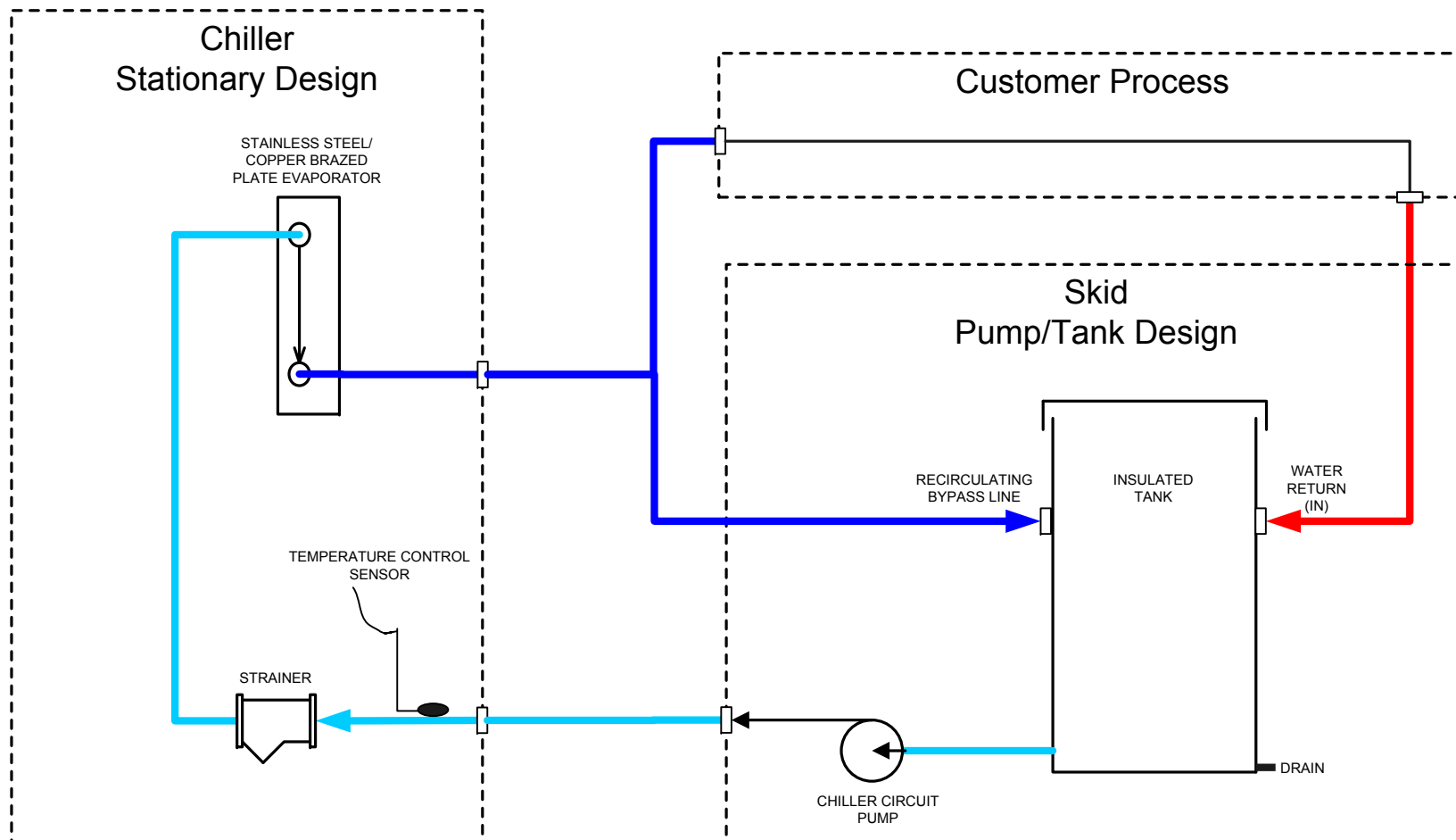
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REV

1

SHEET

6



NOTES			
- This diagram is only for typical layout design purposes and is not for engineering purposes. - Placement of components is not an indication of actual piping connections and positioning. - Items within the dashed areas are typically included with the system. Field supplied piping, components, and interconnections will need to be supplied, as needed.			
SIZE	FSCM NO	DWG NO	REV
A		CHILL WATER CIRCUIT (Typical) “Pump/Tank Skid” (EST/Skid/ProcessCircuit)	1
SCALE	NA	DWG-CHW_FlowDesigns-(PumpTankSkid-EST-Process)_0312).vsd	SHEET 1

COLD SHOT CHILLERS

DRAWN	ENGINEERING
ISSUED	3/16/2012