

# Cold Shot Chillers

"ECONOMICALLY PRICED DEPENDABILITY"



## TECHNICAL SPECIFICATION

Model: WCWC-300-E-\_\_<sup>1</sup>-\_\_<sup>2</sup>-\_\_<sup>3</sup>-\_\_<sup>4</sup>

### Description:

Two stage portable water-cooled water chiller system. System capacity indicated on table is the approximate BTU/hr based on a leaving fluid temperature of 50°F with a condenser water temperature of 85°F.

CAPACITY ±5% AT 50° LCWT / 85°F CONDENSER WT		300,000 BTU /HR				
COMPRESSOR / REFRIGERANT		(2) ROTARY SCROLLS / PURON R-410A				
CONDENSER COILS TYPE		STAINLESS STEEL / COPPER BRAZED				
EVAPORATOR TYPE		STAINLESS STEEL / COPPER BRAZED				
FLUID CONNECTIONS		2" MNPT (IN/OUT)				
ELECTRICAL:	V - Ø - HZ	COMP RLA / LRA (ea)		PUMP FLA	MCA	MOCP
- 5	230 - 3 - 60	48.1	245	17.5	125.7	150
- 6	460 - 3 - 60	18.6	125	8.7	50.5	60
PUMP HP / OUTPUT		7.5 HP / 160 GPM @ 30 PSI				
TANK SIZE / CONSTRUCTION		300 GALLON / INSULATED POLYETHYLENE				
DIMENSIONS		98" L x 50" W x 85" H				
WEIGHT (APPROX.)		1300 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, access ports and or service valves, pressure actuated head pressure controls, liquid receiver.
- **Process Fluid Components:** Bronze "Y" strainer with 20 mesh stainless steel screen. Pumps are stainless steel centrifugal. Tanks are insulated with spin on lid, liquid level sight glass. Portable systems will include a bypass flow valve.
- **Safety Controls:** High and low refrigerant pressure, high and low fluid temperature, low water flow, thermal overloads for compressors, safety fuses or overloads for pump.
- **Construction:** Welded steel powder coated frame and full metal cabinet, copper piping connections.
- **Warranty:** One year parts / five year compressor.

### SUITABLE AMBIENT CONDITIONS/FEATURES:

- **IND:** Indoor use only. Casters on frame.
- **40:** Suitable for outdoor use with an ambient of 40°F ambient. Casters, optional.
- **0:** Suitable for outdoor use to 0°F ambient. Casters, optional.
- **M20:** Suitable for outdoor use to -20°F ambient. Includes hot gas bypass. Casters, optional.

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

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

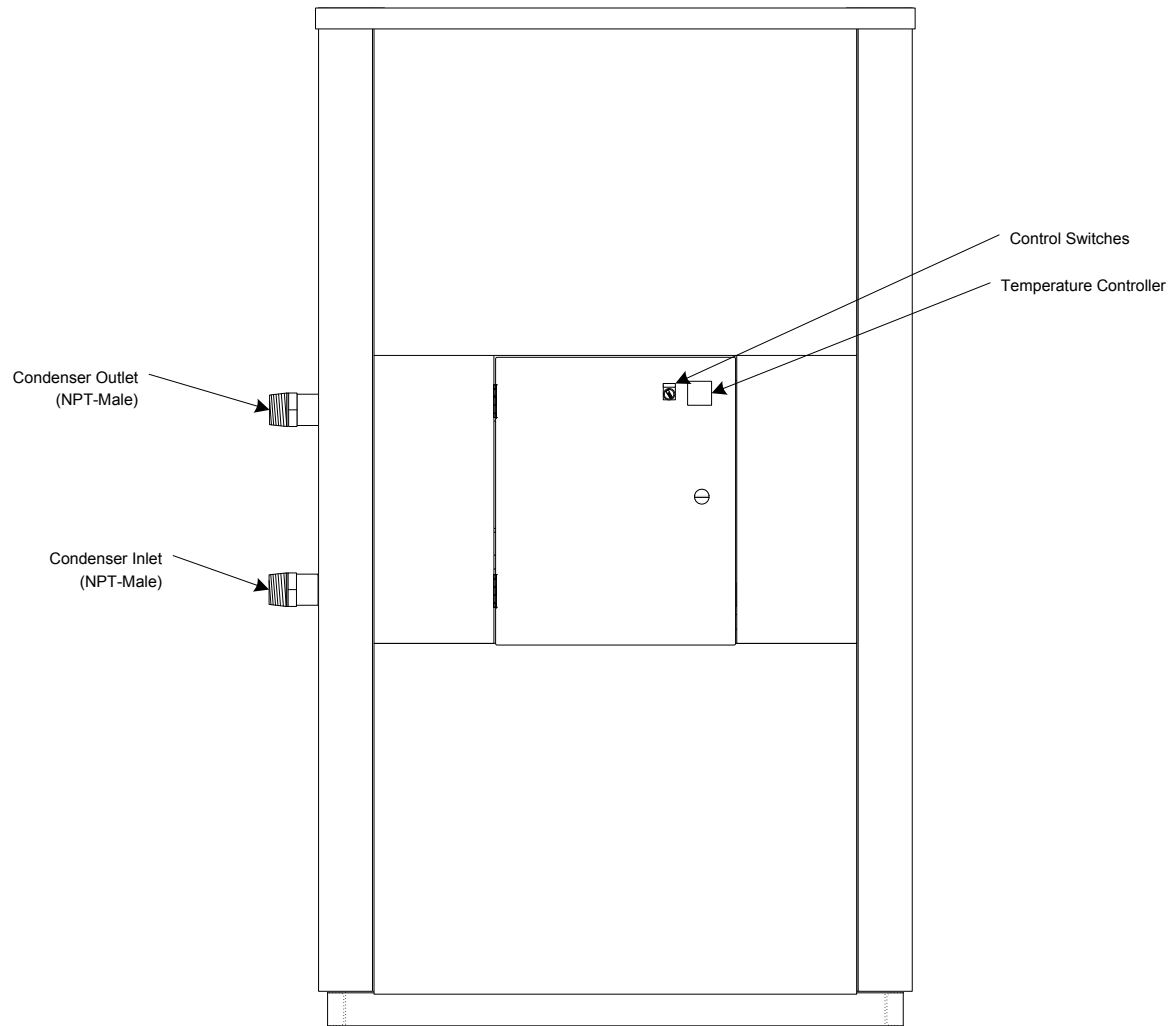
<sup>3</sup> Ambient Temperature Conditions (see above)

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

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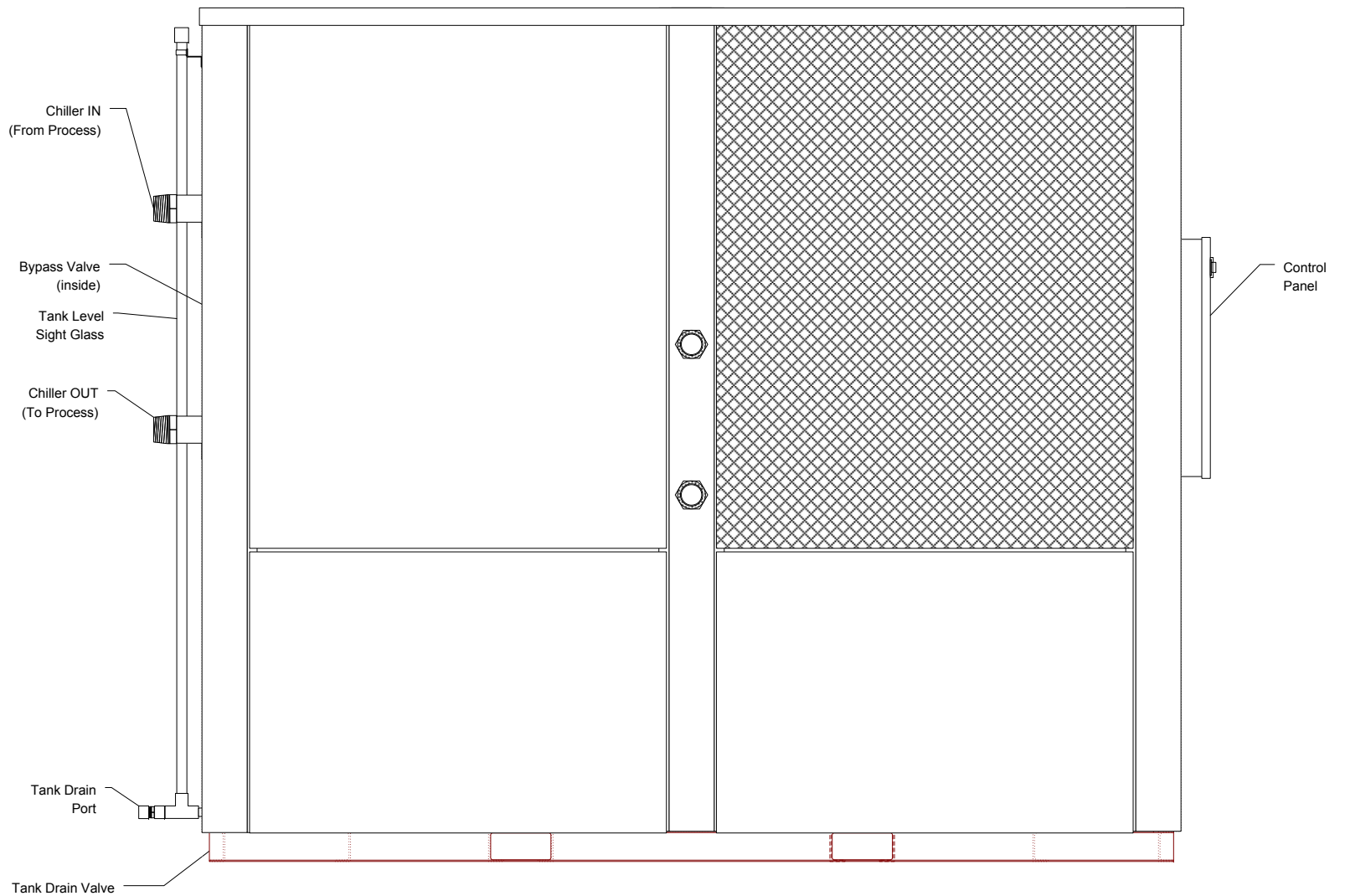


# COLD SHOT CHILLERS

## 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.

DRAWN		ENGINEERING	SIZE	NOTE	DIMENSIONAL DRAWING		REV
			A	- Design and specifications subject to change without notice. - Dimensions are approximate to +/- 1/4"	<b>Water Cooled Chiller</b> <b>WCWC-300-1080-(with full cabinet enclosure)</b>		1
ISSUED		7/9/2013	SCALE	NA	DWG-INST_WCWC-_(0613).vsd	SHEET	1 / Front



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## COLD SHOT CHILLERS

DRAWN ENGINEERING

ISSUED 7/9/2013

SIZE

NOTE

DIMENSIONAL DRAWING

REV

A

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### Water Cooled Chiller

**WCBC-300-1080-E (with full cabinet enclosure)**

1

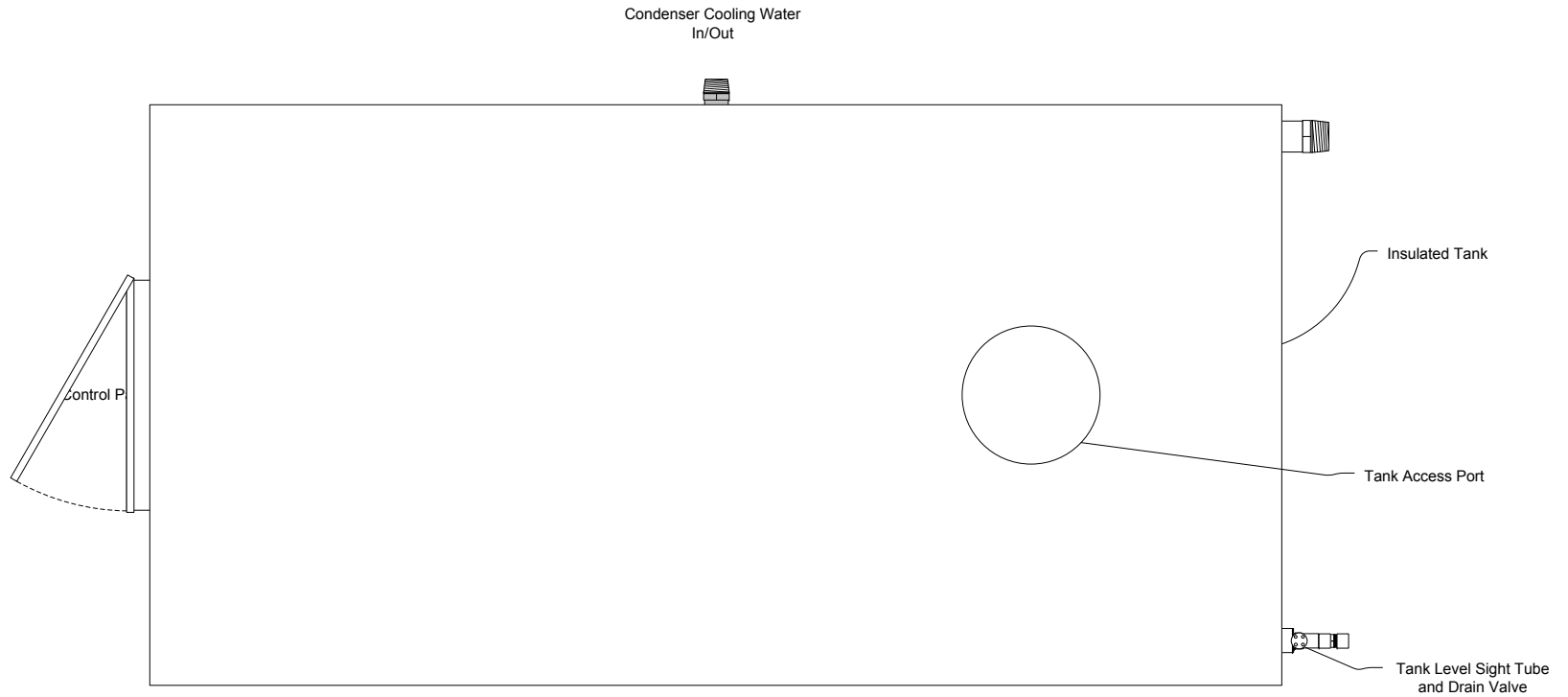
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NA

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SHEET

3 / LeftSide



#### NOTES

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## COLD SHOT CHILLERS

DRAWN ENGINEERING

ISSUED 7/9/2013

SIZE

NOTE

DIMENSIONAL DRAWING

REV

A

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**Water Cooled Chiller**  
**WCBC-300-1080-E (with full cabinet enclosure)**

1

SCALE

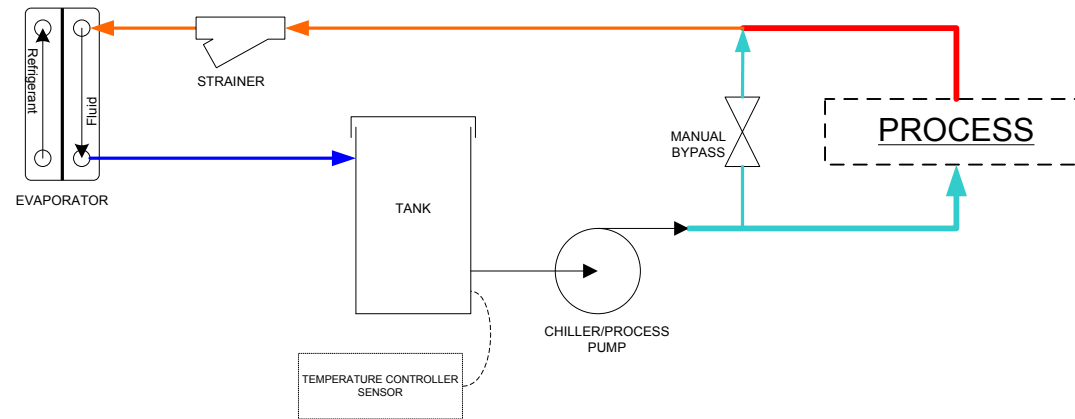
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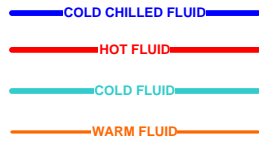
SHEET

5 / Top

## STANDARD/PORTABLE/PACKAGE (-)



### Line Guide



# COLD SHOT CHILLERS

DRAWN ENGINEERING

ISSUED 6/21/2018

SIZE

A

SCALE NTS

### NOTES

- All designs are subject to change without notice.
- The diagrams are to be used as a basic flow diagram only.
- Color Code is for relative temperature comparison.
- Additional components may be included.
- Evaporator may be located in tank.

DESCRIPTION

**Typical FLOW OPTIONS for Chiller Circuits**

REV

1

DWG-CKT\_ChillerCircuitFlowOptions-Typical\_062218.vsd

SHEET

1 / Standard/Portable