Cold Shot Chillers

"ECONOMICALLY PRICED DEPENDABILITY"

TECHNICAL SPECIFICATION

Model: ACWC-024-Q-EXCH[1]-__[2]-__[3]-2[4]

Description:
Single stage air-cooled portable water chiller system. 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.

CAPACITY ±5% AT 50° LCWT / 95°F AMBIENT		**24,000 BTU /HR**					
COMPRESSOR / REFRIGERANT		HERMETIC SCROLL / R-410A					
CONDENSER FANS / AIRFLOW		1 / 1920 CFM					
CONDENSER COILS TYPE		COPPER TUBE / ALUMINUM FIN					
EVAPORATOR/HEAT EXCH. TYPE		STAINLESS STEEL / COPPER BRAZED					
FLUID CONNECTIONS		1" MNPT (IN/OUT)					
ELECTRICAL:	**V - Ø - HZ**	COMP RLA / LRA		FAN FLA	PUMP FLA	MCA	MOCP
- 2	**230 - 1 - 60**	11.2	60.8	0.7	6.6	21.3	30
PUMP HP / OUTPUT		1.0 HP / 30 GPM @ 30 PSI					
TANK SIZE / CONSTRUCTION		25 GALLON / 304 STAINLESS STEEL TANK WITH LID					
DIMENSIONS		42" L x 32 ½" W x 51 ½" H					
WEIGHT (APPROX.)		350 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.

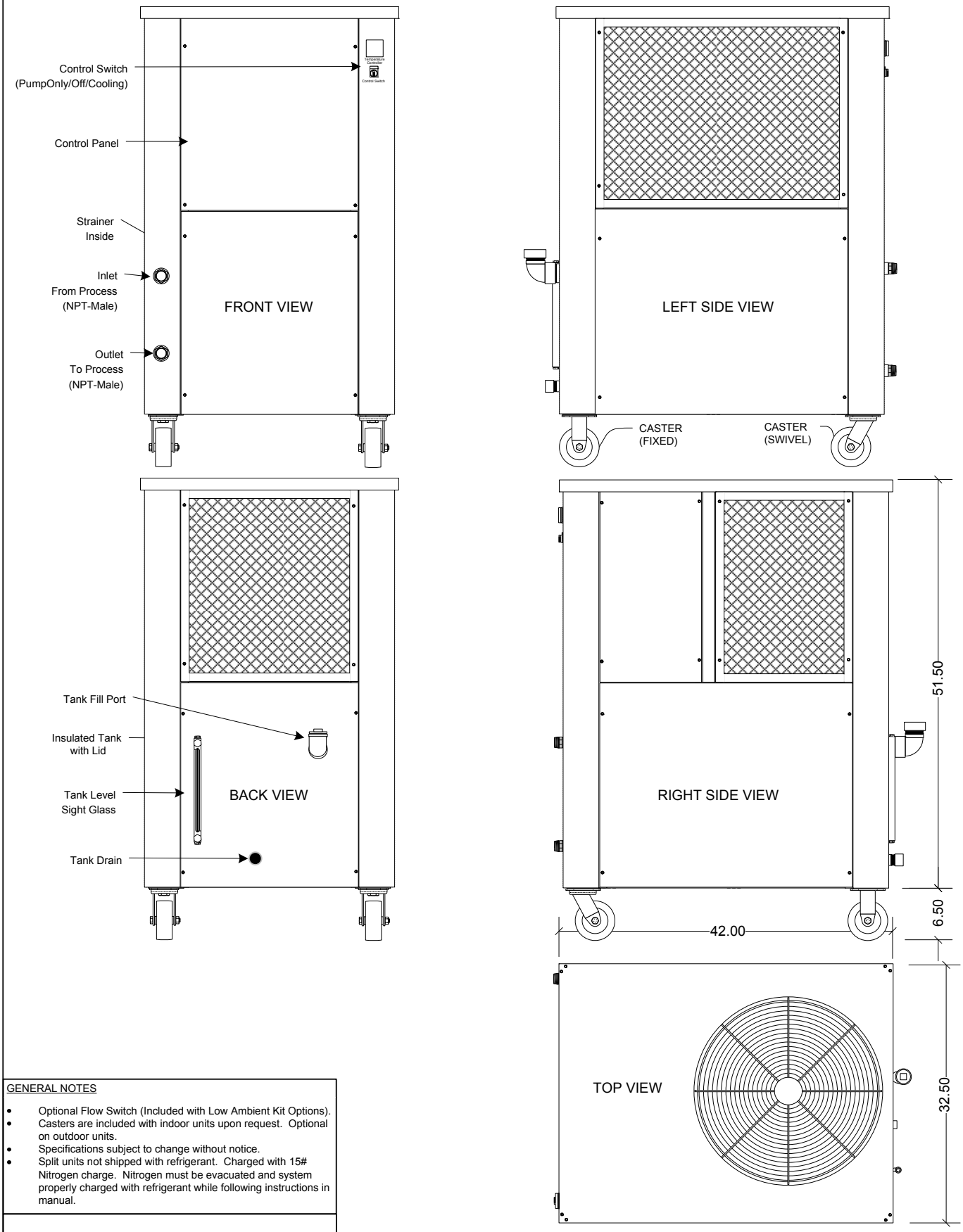
STANDARD FEATURES:

- **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:** Bronze "Y" strainer with 20 mesh stainless steel screen. Pumps are stainless steel centrifugal. Tanks are insulated with shoe box lid, fill port, and level sight glass. Portable systems will include a bypass flow valve.
- **Safety Controls:** High and low refrigerant pressure, high and low fluid temperature, freeze, low water flow, overloads for compressor and fan motors, 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, optional.
- **40:** Suitable for outdoor use with an ambient of 40°F ambient. Casters, optional.
- **0:** Suitable for outdoor use to 0°F ambient. Includes low ambient fan speed controls with (LT) models. Casters, optional.
- **M20:** Suitable for outdoor use to -20°F ambient. Includes with low ambient fan speed controls with hot gas bypass. Casters, optional.

[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)



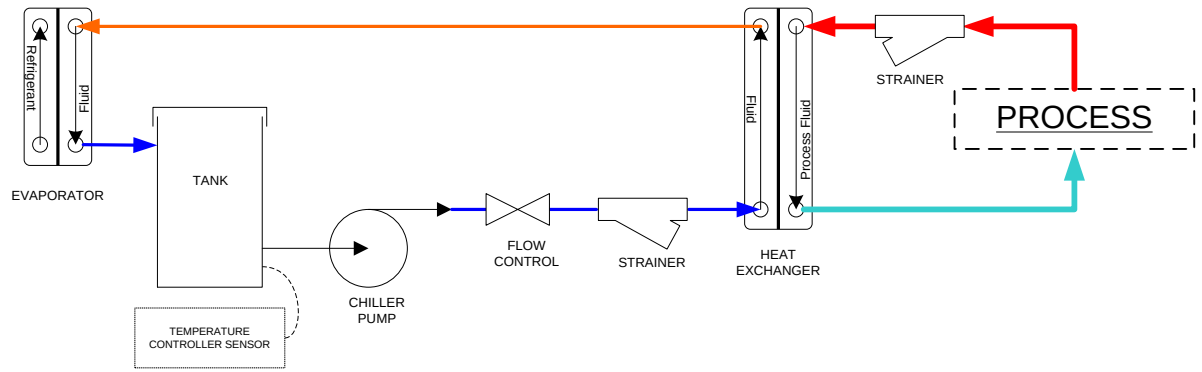
GENERAL NOTES

- Optional Flow Switch (Included with Low Ambient Kit Options).
- Casters are included with indoor units upon request. Optional on outdoor units.
- Specifications subject to change without notice.
- Split units not shipped with refrigerant. Charged with 15# Nitrogen charge. Nitrogen must be evacuated and system properly charged with refrigerant while following instructions in manual.

COLD SHOT CHILLERS

DRAWN	ENGINEERING	SIZE: A	DIMENSION NOTES: Dimension are in inches unless otherwise specified.	DWG NO: **INSTALLATION DRAWING ACWC-024-Q-EXCH-_ (Typical)** — REV: 1
ISSUED	4/7/2016	SCALE: None	DWG-INST_ACWC-024-Q-EXCH-_(0815).vsd	SHEET: 1 / ACWC-024-Q-EXCH_(EntireFullPanel)(All)

HEAT EXCHANGER (EXCH)



Line Guide

- COLD CHILLED FLUID
- HOT FLUID
- COLD FLUID
- WARM FLUID

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.

COLD SHOT CHILLERS				
	SIZE	DESCRIPTION		REV
DRAWN ENGINEERING	A	**Typical FLOW OPTIONS for Chiller Circuits**		1
ISSUED 6/21/2018	SCALE NTS	DWG-CKT_ChillerCircuitFlowOptions-Typical_062218.vsd	SHEET	2 / Heat Exchanger (EXCH)