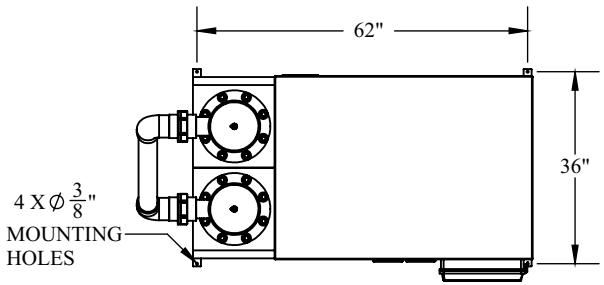
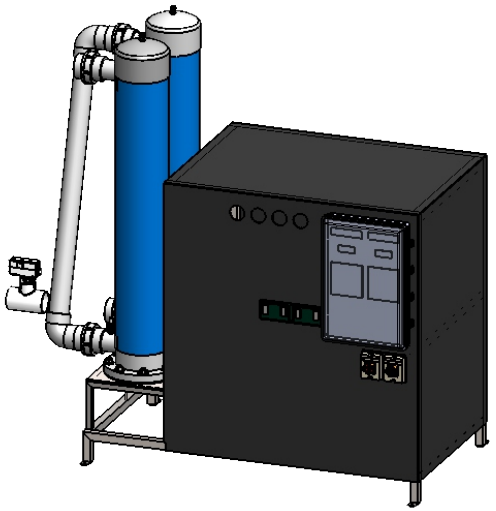
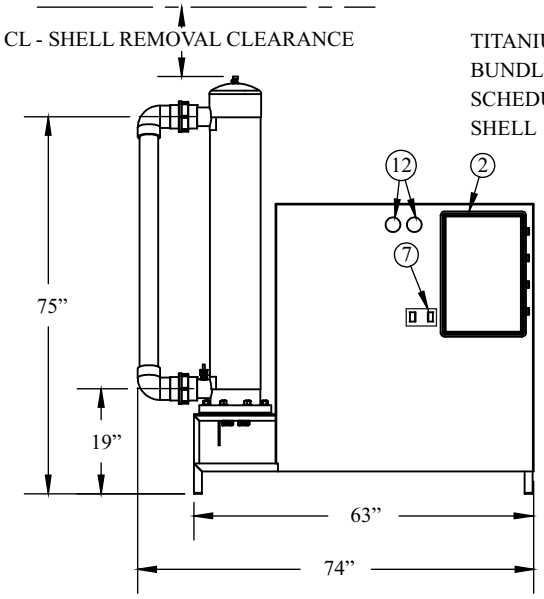
MT-20-DE-WC 20-TON WATER-COOLED SPECIFICATION SHEET



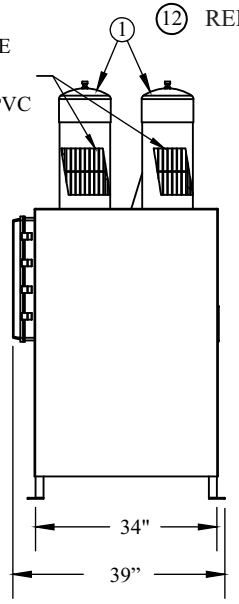
TOP

1. TITANIUM TUBE / PVC EVAPORATORS
2. CONTROL PANEL
3. MAIN POWER IN J-BOX
4. SAFETY WATER CUTOUT FLOW SWITCH
5. EVAPORATOR POOL WATER INLET 2" NPS UNION
6. EVAPORATOR POOL WATER OUTLET 2" NPS UNION
7. REFRIGERANT HIGH / LOW PRESSURE CUTOUT SWITCH
8. 1-1/2" FPT CONDENSER WATER OUTLET
9. 3/4" FPT CONDENSER CLEANING PORT INLET
10. 3/4" FPT CONDENSER CLEANING PORT OUTLET
11. 1-1/2" FPT CONDENSER WATER INLET
12. REFRIGERANT LIQUID / SUCTION PRESSURE GAUGES

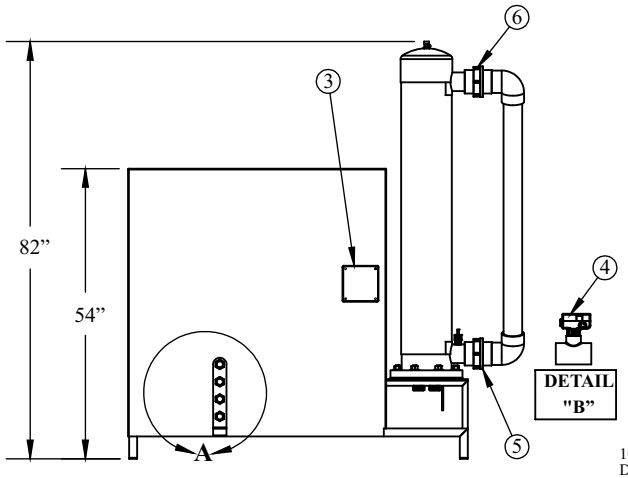




FRONT

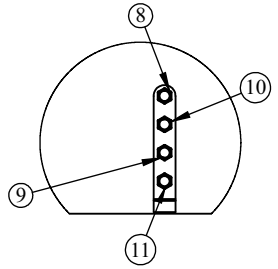


RIGHT

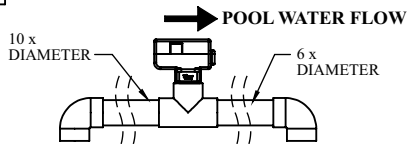


BACK

DETAIL "B"



DETAIL A



**** IMPORTANT!**

-DETAIL "B"
-FLOW SWITCH MUST BE FIELD INSTALLED VERTICALY ON A HORIZONTAL STRAIGHT PIPE WITH NO LESS THAN 10 TIMES THE PIPE DIAMETER ON THE INLET SIDE AND NO LESS THAN 6 TIMES THE DIAMETER ON THE OUTLET SIDE.

OPTIONS:
- SCH 80 PVC SHELL CONSTRUCTION.
- 316 STAINLESS STEEL STAND AND HEX BOLTS.

R-454B MULTI-TEMP WATER-COOLED CHILLER

MODEL NO.	NOMINAL TON / BTUH	VOLTS / PHASE / HZ	COMPRESSOR NO. / TONS	TOTAL AMPERAGE RLA / LRA	TOTAL MCC AMPS	MAX. FUSE / BREAKER SIZE	EVAPORATOR WATER FLOW MIN / MAX (GPM)	CONDENSER WATER FLOW (GPM) / PSI DROP @ 70 °F EWT	CONDENSER WATER CONNECTIONS (FPT)	CL	SHIPPING DIMENSIONS (L x Wx H IN.)	SHIPPING WEIGHT (~LBS.)
MT-20-DE-WC	20 / 240,000	230 / 3 / 60	1 / 20	75 / 485	105	100	60 / 100	25 / 15	2@ 1-1/2"	63"	80 x 45 x 89	1350
MT-20-460-DE-WC	20 / 240,000	460 / 3 / 60	1 / 20	36 / 215	51	50	60 / 100	25 / 15	2@ 1-1/2"	63"	80 x 45 x 89	1350

NOTES
- WHEN THE CHILLER IS IN THE OFF CYCLE, WATER FLOWING THROUGH THE CONDENSER IS STOPPED.
- WATER FLOW RATE THROUGH THE EVAPORATOR NEEDS TO BE MAINTAINED CLOSE TO AT LEAST 100 GPM WHEN THE WATER TEMPERATURE IS 55 °F AND BELOW.
- CONDENSER TEMPERATURE IS MINIMUM OF 45°F AND MAXIMUM OF 75°F WATER TEMPERATURE.
- IF OPERATING OUTSIDE THESE PARAMETERS CONTACT AQUA LOGIC TECHNICAL SUPPORT.
- THE SPECIFIED AMPERAGE IS BASED ON UNITS RUNNING WITH A 75°F EVAPORATOR WATER TEMPERATURE.
- ALL DIMENSIONS ARE APPROXIMATE AND CAN CHANGE AT ANY TIME.

aqua LOGIC
Chillers & Titanium Heat Exchangers
2806 GRAY FOX RD., MONROE, NC 28110

BALLON LEGEND
ITEM NO.
QTY.

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DESCRIPTION	DRAWN BY	DATE	REVISION	SCALE	SHEET #
	CEPPS	7/15/2026		NA	1 OF 1

DRAWING #

SHEET TITLE: MT-20-DE-WC SPECIFICATIONS