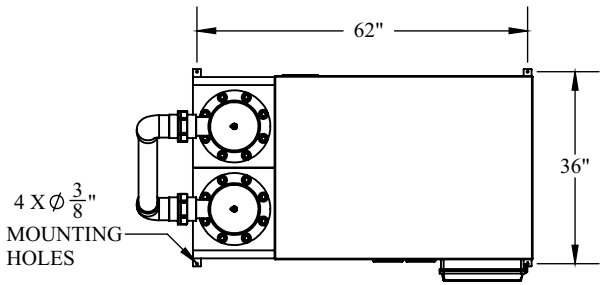
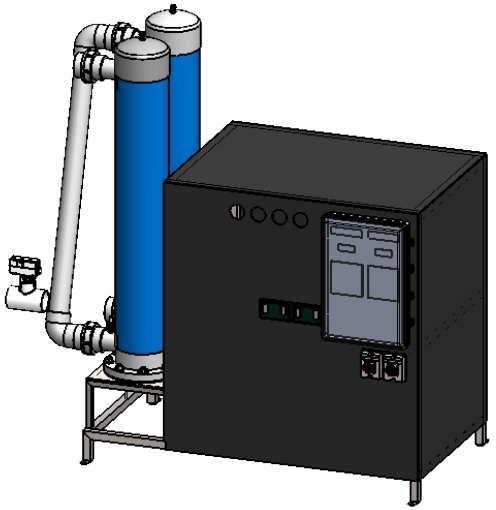
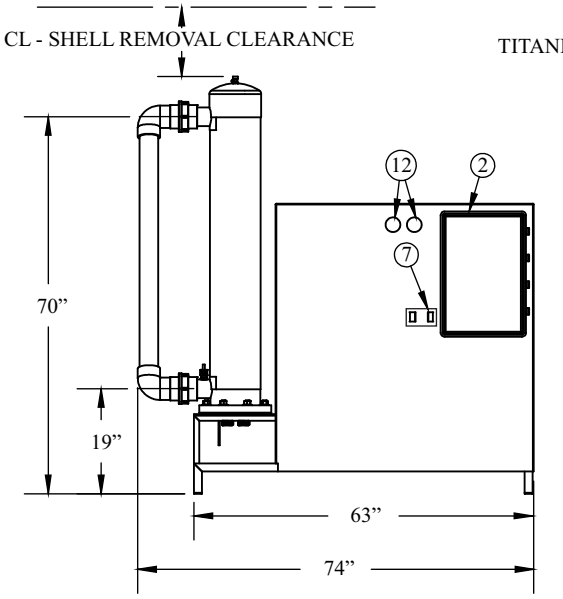
# MT-10-DE-WCV R-454B WATER-COOLED CHILLER SPECIFICATION SHEET



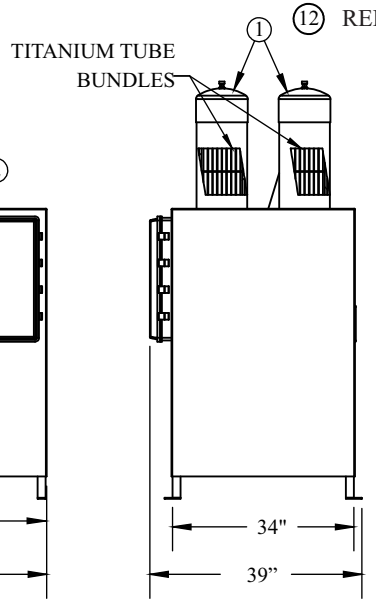

**TOP**

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" FPT CONDENSER WATER OUTLET
9. 3/4" FPT CONDENSER CLEANING PORT INLET
10. 3/4" FPT CONDENSER CLEANING PORT OUTLET
11. 1" FPT CONDENSER WATER INLET
12. REFRIGERANT LIQUID / SUCTION PRESSURE GAUGES

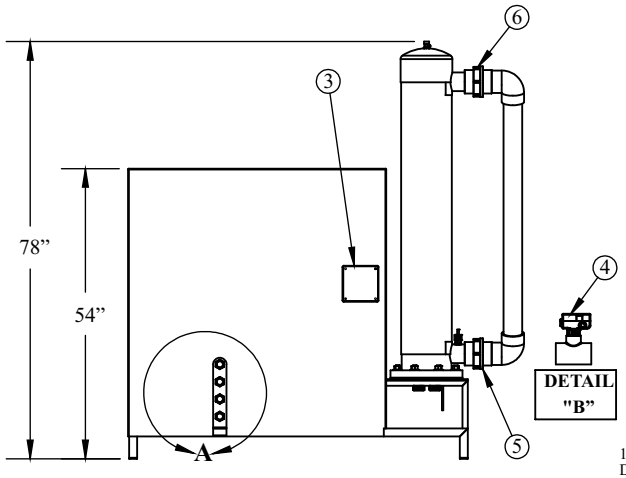




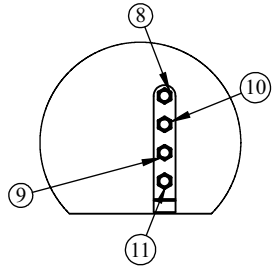

**FRONT**



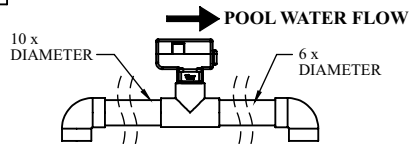

**RIGHT**




**BACK**




**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.

| MULTI-TEMP R-454B WATER-COOLED CHILLER | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MODEL NO.** | **NOMINAL TON / BTUH** | **VOLTZ / 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 (IN.)** |
| MT-10-DE-WCV | 10 / 120,000 | 230 / 3 / 60 | 1 / 10 | 35 / 250 | 52.2 | 60 | 60 / 100 | (13) / 12 | 2 @ 1" | 63" | 80 x 45 x 83 |
| MT-10-460-DE-WCV | 10 / 120,000 | 460 / 3 / 60 | 1 / 10 | 17 / 125 | 26 | 35 | 60 / 100 | (13) / 12 | 2 @ 1" | 63" | 80 x 45 x 83 |

**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 FLOW TEMPERATURE IS MINIMUM OF 40°F AND MAXIMUM OF 75°F.
- WATER TEMPERATURE. IF OPERATING OUTSIDE THESE PARAMETERS CONTACT AQUA LOGIC TECHNICAL SUPPORT.
- IF MAINTAINING AN EVAPORATOR WATER TEMPERATURE BELOW 45°F CONSULT 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 | 8/22/2025 | | NA | 1 OF 1 |

DRAWING #

SHEET TITLE: **MT-10-DE-WC SPECIFICATIONS**