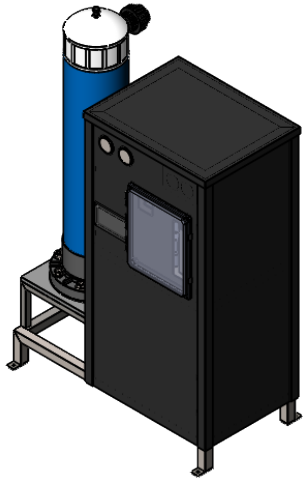
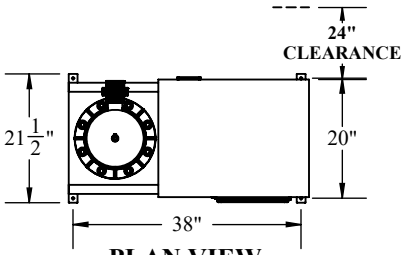
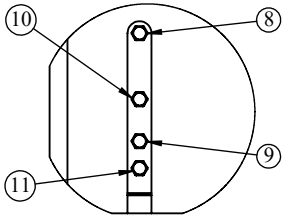
MT-1 THRU MT-8-WCV R-454B WATER COOLED CHILLER



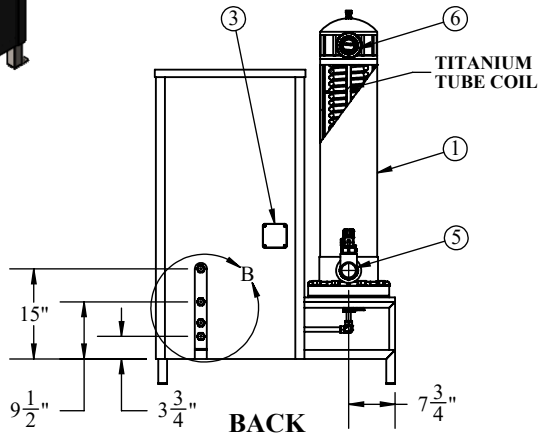
NO.	NAME
1	EVAPORATOR-TITANIUM TUBE / 8" SCH 40 PVC SHELL
2	TEMPERATURE CONTROLLER / NEMA 4X ELECTRICAL CONTROL BOX
3	JUNCTION BOX FOR SUPPLY POWER
4	WATER FLOW SWITCH (SEE NOTE FOR INSTALLATION)
5	2" NPS SLIP UNION EVAPORATOR WATER INLET
6	2" NPS SLIP UNION EVAPORATOR WATER OUTLET
7	LOW / HI REFRIGERANT PRESSURE SAFETY CUTOUT
8	CONDENSER WATER OUTLET
9	CONDENSER WATER INLET
10	CONDENSER WATER CLEAN OUT OUTLET
11	CONDENSER WATER CLEAN OUT INLET
12	REFRIGERANT PRESSURE GAUGES



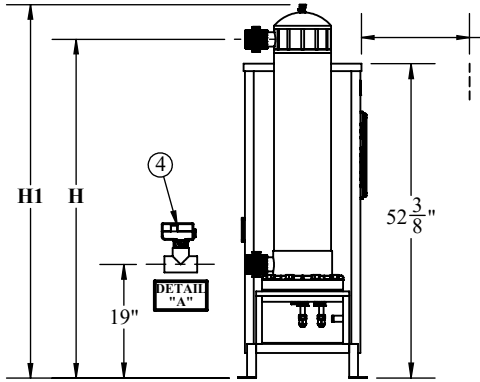
PLAN VIEW



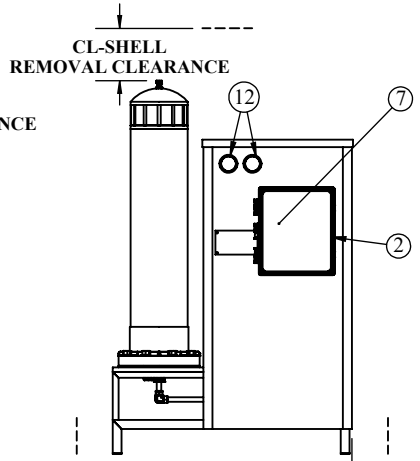
DETAIL B



BACK

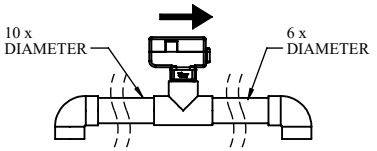


LEFT



FRONT

MULTI-TEMP WATER-COOLED CHILLERS											
MODEL NO.	NOMINAL TON / BTUH	VOLTS / PHASE	R-454B REFRIGERANT CHARGE LBS/OZ	AMPERAGE RLA / LRA	EVAPORATOR WATER FLOW MIN/MAX (GPM)	CONDENSER WATER FLOW MIN/MAX (GPM)	CONDENSER WATER CONNECTION (NFPT)	H	H1	CL	DRY WEIGHT (LBS.)
MT-1-WCV	2 / 24,000	208-240 / 1	3 / 5	13.8 / 127	20 / 40	2 / 4	1/2"	34"	n/a	25"	320
MT-3-WCV	3 / 36,000	208-240 / 1	3 / 10	16.6 / 175	20 / 40	2 / 5	1/2"	41"	n/a	32"	330
MT-4-WCV	3 / 36,000	208-240 / 3	3 / 10	12.7 / 128	20 / 40	2 / 5	1/2"	41"	n/a	32"	330
MT-4-460-WCV	3 / 36,000	460 / 3	3 / 10	7.5 / 63	20 / 40	2 / 5	1/2"	41"	n/a	32"	330
MT-5-WCV	4 / 48,000	208-240 / 1	4 / 12	17.3 / 129	30 / 60	3 / 7	3/4"	49"	54 7/8"	39"	350
MT-6-WCV	4 / 48,000	208-240 / 3	4 / 12	13 / 156	30 / 60	3 / 7	3/4"	49"	54 7/8"	39"	350
MT-6-460-WCV	4 / 48,000	460 / 3	4 / 12	8 / 75	30 / 60	3 / 7	3/4"	49"	54 7/8"	39"	350
MT-7-WCV	5 / 60,000	208-240 / 1	7 / 5	23 / 129	30 / 60	4 / 8	3/4"	56 1/2"	62 3/8"	47"	360
MT-8-WCV	5 / 60,000	208-240 / 3	7 / 5	19.3 / 225	30 / 60	4 / 8	3/4"	56 1/2"	62 3/8"	47"	360
MT-8-460-WCV	5 / 60,000	460 / 3	7 / 5	9.8 / 114	30 / 60	4 / 8	3/4"	56 1/2"	62 3/8"	47"	360



**** IMPORTANT!**
-DETAIL "A"

-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.

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 AT THE MAXIMUM FLOW RATE WHEN WATER TEMPERATURE IS 55°F AND BELOW.
- ALL UNITS ARE 60 HZ.
- CONDENSER FLOW RATE IS BASED ON A MINIMUM OF 55°F AND MAXIMUM OF 75°F WATER TEMPERATURE. IF OPERATING OUTSIDE THESE PARAMETERS CONTACT AQUA LOGIC TECHNICAL SUPPORT.
- 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			
MT-1 THRU MT-8-WCV WATER COOLED CHILLER.			
DRAWN BY	DATE	REVISION	SCALE
	3/24/2022	07/08/2025	

DRAWING #	SHEET TITLE	
PDF-0230	MT-1 THRU MT-8-WCV SPECIFICATIONS	
	SCALE	SHEET #
		1 OF 1