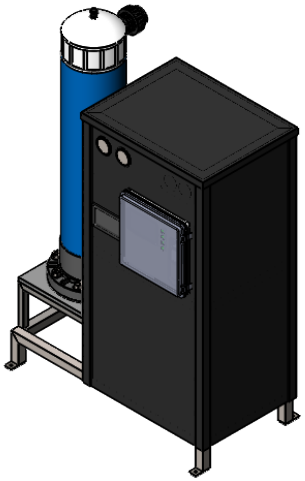
HP-5 THRU HP-53-WCV WATER COOLED HEAT PUMP

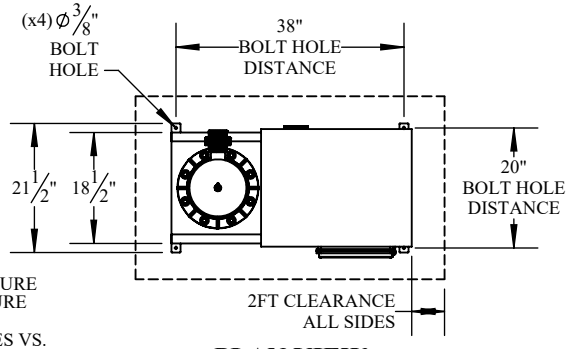


NO.	NAME
1	EVAPORATOR-TITANIUM TUBE / 8" SCH 40 PVC SHELL
2	TEMPERATURE CONTROLLER / NEMA 4X ELECTRICAL CONTROL BOX
3	JUNCTION BOX FOR SUPPLY POWER
4	WATER FLOW SWITCH (SEE NOTE FOR INSTALLATION)
5	2" NPS SLIP UNION EVAPORATOR WATER INLET
6	2" NPS SLIP UNION EVAPORATOR WATER OUTLET
7	LOW / HI REFRIGERANT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

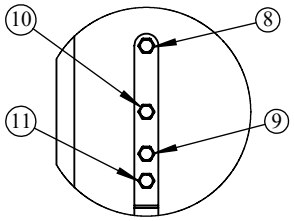
CONDENSER WATER FLOW VS. TEMPERATURE °F			
MODE	EWT	LWT	GPM
H	55	65	14
C	55	100	5
H	65	75	14
C	65	100	8
H	75	85	14
C	75	105	12

C= SYSTEM COOLING MODE
H= SYSTEM HEATING MODE
EWT= ENTERING WATER TEMPERATURE
LWT= LEAVING WATER TEMPERATURE

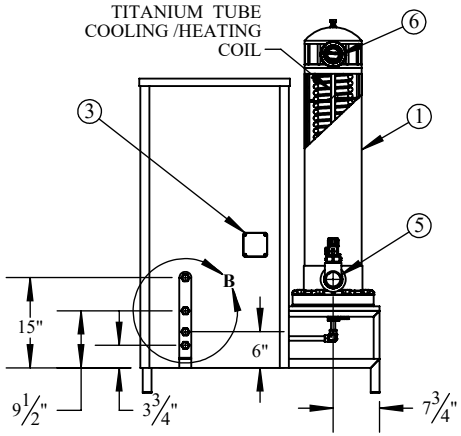
-CONDENSER WATER TEMPERATURES VS. FLOW RATE ARE APROXIMATE AND MAY VARY FROM THE CHART.



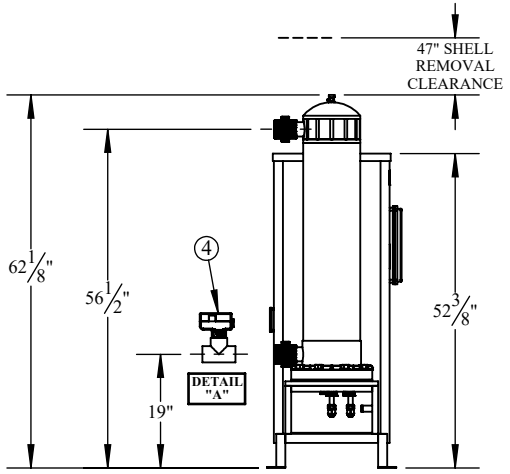
PLAN VIEW



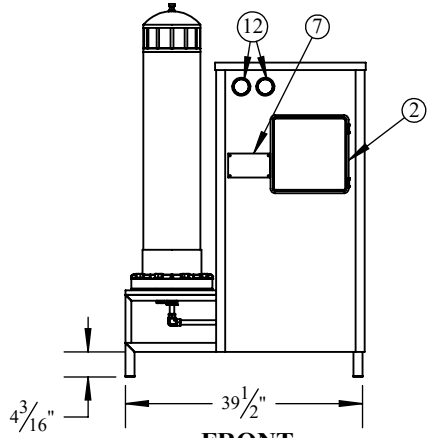
DETAIL B



BACK



LEFT

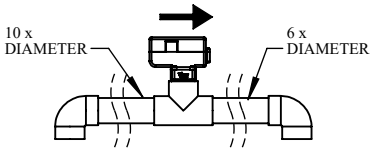


FRONT

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

WATER-COOLED HEAT PUMP					
MODEL NO.	NOMINAL TON / BTUH	VOLTS / PHASE / HZ.	RLA / LRA / MOCP	EVAPORATOR WATER FLOW MIN/MAX (GPM)	DRY WEIGHT (LBS.)
HP-5-WCV	5 / 60,000	230 / 1 /	27 / 145 / 42	30 / 60	500
HP-53-WCV	5 / 60,000	208-240 / 3 / 20	19.5 / 170 / 30	30 / 60	500
HP-53-460-WCV	5 / 60,000	460 / 3 / 60	8.5 / 100 / 20	30 / 60	500

NOTES:
· WHEN THE HEAT PUMP 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.
· 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.



**** 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.

9558 Camino Ruiz, San Diego, CA 92126

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DRAWING #	SHEET TITLE
	HP-5 THRU HP-53-WCV SPECIFICATIONS

DESCRIPTION				
HP-5 THRU HP-53-WCV WATER COOLED CHILLER, VERTICAL MOUNT.				
DRAWN BY	DATE	REVISION	SCALE	SHEET #
Arnaldo Guzman	1/12/2021			1 OF 1