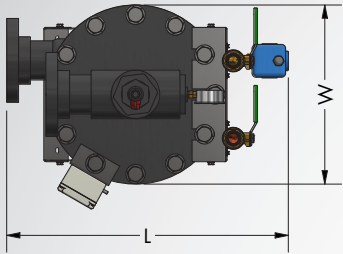


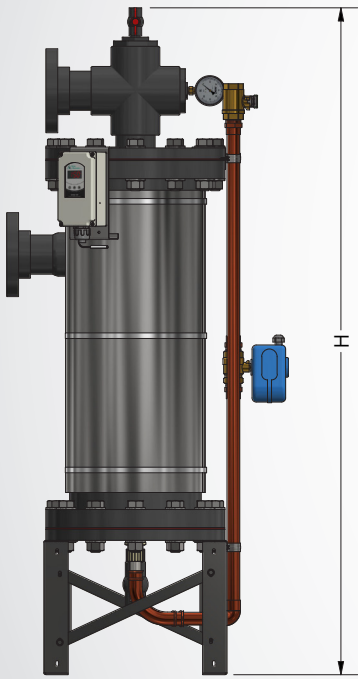


# HYDROMARINE HEAT EXCHANGER (DH-WTW-10x3)

WATER TO WATER TITANIUM HEAT EXCHANGER FOR USE IN ALL AQUATIC CHILLING/HEATING APPLICATIONS



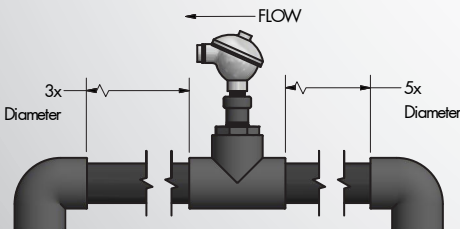
PLAN VIEW



DH-WTW-10x3

Aquatic Flow (GPM)

FRONT VIEW



FIELD INSTALLED FLOW SWITCH

**NOTES:**

- Gr.2 TITANIUM TUBE HEAT EXCHANGER COIL
- SCH 80 PVC SHELL CONSTRUCTION WITH REMOVABLE FLANGED ENDS
- ALL 316 SS BASE, JACKET AND HARDWARE
- TEMPERATURE CONTROLLER CAN BE SET +/- 0.1° F/C
- 120v CONTROLLER AND 2-WAY BALL-VALVE

**OPTIONS:**

- FACTORY MOUNTED & WIRED FLOW SWITCH
- SCH 80 CPVC SHELL CONSTRUCTION WITH REMOVABLE FLANGED ENDS (Recommended for Heating)
- LIMIT SOLENOID VALVE
- HYDRONIC FLOW METER
- ALTERNATE FLOW CONTROL DEVICE

**DIMENSIONS**

Aquatic Connection Size	Process Connection Size	Length (L)	Width (W)	Height (H)
3"	1"	26"	16"	60"

**BTU PERFORMANCE CHART**

	Δ T OF AQUATIC WATER & PROCESS HEATING / CHILLING LOOP									
	10	15	20	25	30	35	40	45	50	
60	32 625	47 850	60 900	76 125	91 350	100 050	112 375	129 050	142 825	
70	34 800	50 750	65 975	81 925	97 875	108 750	121 075	142 100	153 700	
80	36 250	52 925	70 325	87 000	102 950	116 725	129 775	149 350	159 500	
90	37 700	55 825	71 050	91 350	108 750	122 525	137 025	157 325	168 925	
100	40 600	58 000	72 500	94 250	113 825	129 775	145 000	160 950	175 450	
110	41 325	58 725	73 225	97 875	117 450	136 300	148 625	166 750	181 250	
120	41 325	60 175	74 675	97 875	117 450	136 300	150 800	168 925	183 425	
130	42 050	62 350	78 300	101 500	120 350	125 425	157 325	174 725	192 850	
140	44 225	63 800	81 200	105 125	125 425	142 825	160 950	181 250	202 275	
150	45 675	65 250	83 375	108 750	128 325	147 175	166 750	187 050	210 975	
160	46 400	67 425	86 275	112 375	131 950	152 250	173 275	193 575	218 950	
170	47 125	68 875	88 450	114 550	137 025	158 050	177 625	197 925	222 575	
180	48 750	71 775	90 625	118 175	140 650	161 675	182 700	203 000	224 025	

\* BTU performance based on 10 GPM process flow @ 10 PSID

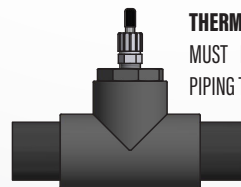
\* Increases in aquatic flow, process flow, or delta-T of process/aquatic water temps will increase BTU output

\* Aquatic side PSID at 180 GPM is 4 PSID

\* Derating factors for 45F Propylene Glycol solutions: (20% PG - 0.96), (30% PG - 0.94), refer to PG tables for other oper temps & solutions.

**FLOW SWITCH NOTE:**

FLOW SWITCH MUST BE INSTALLED HORIZONTALLY ON INLET OF HEAT EXCHANGER, WITH MINIMUM STRAIGHT PIPE DISTANCES BEFORE AND AFTER AS SHOWN IN DRAWING. OPTIONAL FACTORY MOUNT & WIRE.



THERMOWELL

**THERMOWELL NOTE:**

MUST BE INSTALLED ON INLET PIPING TO HEAT EXCHANGER.

AQUATIC CONNECTION

PROCESS CONNECTION



2-WAY VALVE



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