

# TITANIUM HEAT EXCHANGERS



## TW-Line Heat Exchangers

Shell and Coil Heat Exchangers are made with pure Titanium, the innovative distinct TeeW Line design is a fusion of functionality and cutting edge thermal technology. The unique geometry of the Tee Line optimizes flow turbulence and increases the heat transfer coefficient, and along with its versatile assembly, provides the perfect solution for your diverse application.

## Applications

- Pools, spas, hot tubs
- In floor heating
- Driveway snowmelt
- Evaporators/Condensers
- Marine/saltwater application

## Standard Materials:

Titanium coils  
Titanium Shell

## Maximum Working Pressure:

Up to 232 PSI (16 bar) in Tubes  
Up to 232 PSI (16 bar) in Shell

## Maximum Working Temperature:

Up to 194 °F (120°C) Tube Side  
Up to 194 °F (60°C) Shell Side

Model	Nominal Capacity		Water Flow			
			Hot Water		Cold Water	
			kW	Btu/Hr	USGPM	PSIG
TW-100Ti	29	98000	5.8	1.6	66	1.3
TW-200Ti	57	195000	7.9	4.1	80	2.3
TW-300Ti	87	298000	9.2	5.5	92	2.9
TW-400Ti	113	385000	10.6	9.4	106	3.6

Nominal values are based on 60°C(40°F) temp. diff. between incoming heating and heated water

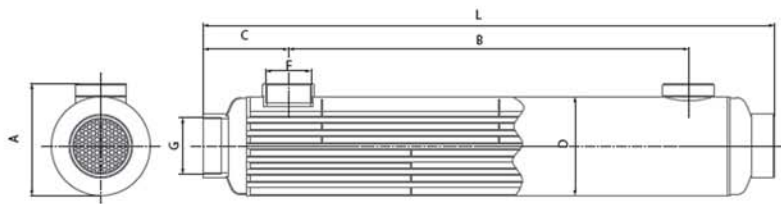
Model	Heat Transfer Area		Connection Shell	Connection Tubes
	m2	ft2	in	in
TW-100Ti	0.18	1.8	1-1/2"	1-1/4"
TW-200Ti	0.18	1.8	1-1/2"	1-1/4"
TW-300Ti	0.3	3.2	1-1/2"	1-1/4"
TW-400Ti	0.3	3.2	1-1/2"	1-1/4"

\*Connections for stainless steel models only

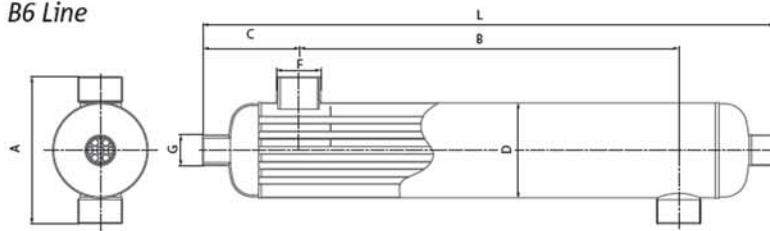


## Technical Product Specifications

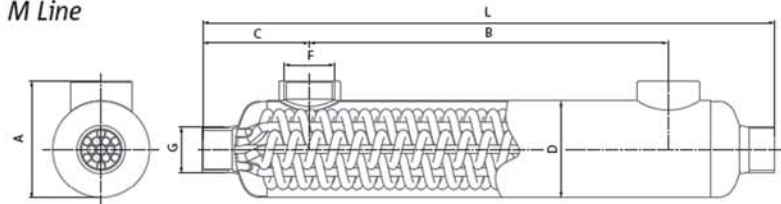
Heat Exchanger Model	Dimensions										Connections		Heat Transfer Area	
	L		A		B		C		Ø D		F	G		
	mm	in	mm	in	mm	in	mm	in	mm	in	Shell	Tubes	m <sup>2</sup>	sq ft
<b>B6-280</b>	400.0	15.7	94.5	3.7	240.0	9.4	80.0	3.1	80.0	3.1	1"	1½"	0.47	5.10
<b>B6-390</b>	373.0	14.7	117.6	4.6	193.0	7.6	90.0	3.5	103.6	4.1	1½"	2"	0.60	6.50
<b>B6-700</b>	622.0	24.5	117.6	4.6	442.0	17.4	90.0	3.5	103.6	4.1	1½"	2"	1.15	12.40
<b>B6-1200</b>	1075.0	42.3	117.6	4.6	895.0	35.2	90.0	3.5	103.6	4.1	1½"	2"	2.14	23.00
<b>M-180</b>	402.1	15.8	160.0	6.3	193.0	7.6	104.6	4.1	103.6	4.1	1½"	1"	0.44	4.70
<b>M-300</b>	651.1	25.6	160.0	6.3	442.0	17.4	104.6	4.1	103.6	4.1	1½"	1"	0.84	9.00
<b>M-500</b>	1 104.1	43.5	160.0	6.3	895.0	35.2	104.6	4.1	103.6	4.1	1½"	1"	1.56	16.80
<b>TW-100</b>	332.6	13.1	108.9	4.3	134.6	5.3	99.0	3.9	90.4	3.6	1½"	1¼"	0.21	2.24
<b>TW-200</b>	530.6	20.9	108.9	4.3	332.6	13.1	99.0	3.9	90.4	3.6	1½"	1¼"	0.38	4.15
<b>TW-300</b>	758.6	29.9	108.9	4.3	560.6	22.1	99.0	3.9	90.4	3.6	1½"	1¼"	0.58	6.26
<b>TW-400</b>	910.6	35.9	108.9	4.3	712.6	28.1	99.0	3.9	90.4	3.6	1½"	1¼"	0.72	7.71



**B6 Line**



**M Line**



**TW Line**

### Standard materials

**B6 LINE** Stainless Steel 316 L

**M LINE** Nicrom-24

**TW LINE** Titanium

### Maximum allowable working pressure

**B6 LINE** 10 bar / 150 PSIG

**M LINE** 10 bar / 150 PSIG

**TW LINE** 10 bar / 150 PSIG

### Maximum allowable working temperature

**B6 LINE** 208°C / 406°F

**M LINE** 208°C / 406°F

**TW LINE** 120°C / 248°F

Heat Exchanger Model	Nominal Capacity		Hot Water Side				Cold Water Side			
			flow		pressure drop		flow		pressure drop	
			kW	BTU/h	l/min	USGPM	kPa	PSI	l/min	USGPM
<b>B6-280</b>	82	280,000	125	33.0	22.4	3.3	250	66.1	14.8	2.2
<b>B6-390</b>	114	390,000	260	68.7	30.6	4.4	520	137.4	26.8	3.9
<b>B6-700</b>	205	700,000	215	56.8	14.3	2.1	430	113.6	25.0	3.6
<b>B6-1200</b>	352	1,200,000	238	62.9	25.2	3.7	476	125.8	47.0	6.8
<b>M-180</b>	53	180,000	100	26.4	7.0	1.0	150	39.6	8.7	1.3
<b>M-300</b>	88	300,000	105	27.7	8.2	1.2	157	41.6	8.6	1.3
<b>M-500</b>	146	500,000	120	31.7	11.4	1.7	180	47.6	11.8	1.7
<b>TW-100</b>	29	100,000	17	4.6	6.1	0.9	38	10.0	0.3	0.1
<b>TW-200</b>	57	200,000	28	7.5	26.7	3.9	61	16.0	1.4	0.2
<b>TW-300</b>	87	300,000	36	9.5	63.2	9.2	76	20.0	2.9	0.4
<b>TW-400</b>	113	400,000	35	9.1	71.7	10.4	265	70.0	40.7	5.9

Nominal Capacity Values are based on heating water 180°F (82.2°C) and return pool water 80°F (26.7°C)