

# **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

			Water Flow						
			Hot W	/ater	Cold Water				
Model	Nomina	I Capacity							
	kW	Btu/Hr	USGPM	PSIG	USPGM	PSIG			
TW-100Ti	29	100,000	20	3.2	60	5.4			
TW-200Ti	57	200,000	20	4.7	60	5.9			
TW-300Ti	87	300,000	20	6.4	60	6.4			
TW-400Ti	113	400,000	20	7.6	60	6.7			

Nominal values are based on 60°C (40°F) temperature difference between incoming heating and heated water

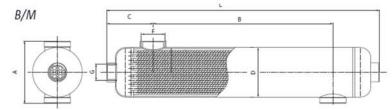
			Connection	Connection
Model	Heat Trar	nsfer Area	Shell	Tubes
	m2	ft2	in	in
TW-100Ti	0.21	2.24	1½"	1¼"
TW-200Ti	0.38	4.15	1½"	1¼"
TW-300Ti	0.58	6.26	11⁄2"	1¼"
TW-400Ti	0.72	7.71	11⁄2"	1¼"



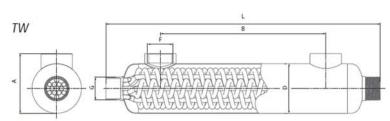
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# **Pool Heaters Technical Product Specifications**

Heat Exchanger Model	Geometrical dimensions										Heat Transfer Area			
	L		A		В		C		ØD		F	G		
	mm	in	mm	in	mm	in	mm	in	mm	in			m <sup>2</sup>	sq ft
M 180	402,1	15.8	160	6.3	193	7.6	104,6	4.1	103,6	4.1	11/2*	1*	0,44	4.70
M 300	651,1	25.6	160	6.3	442	17.4	104,6	4.1	103,6	4.1	11/2*	1*	0,84	9.00
M 500	1 104,1	43.5	160	6.3	859	33.8	104,6	4.1	103,6	4.1	1%"	1"	1,56	16.80
TW 100	332,6	13.1	108,9	4.3	134,6	5.3	-	-	90,4	3.6	1½*	11/4"	0,21	2.24
TW 200	530,6	20.9	108,9	4.3	332,6	13.1	-	-	90,4	3.6	1½"	11/4"	0,38	4.15
TW 300	758,6	29.9	108,9	4.3	560,6	22.1	-	-	90,4	3.6	1½*	1¼"	0,58	6.26
TW 400	910,6	35.9	108,9	4.3	712,6	28.1	-	-	90,4	3.6	11/2*	11/4"	0,72	7.71



Tube side hot/shell side cold



M LINENicrom-24TW LINEgrade I titaniumMaximum allowable working pressureM LINE - shell/tube side10 bar / 150 PSIGTW LINE - shell/tube side10 bar / 150 PSIGMaximum allowable working temperatureM LINE - shell/tube side208°C / 406°FTW LINE - shell/tube side120°C / 248°F

Standard materials

Tube side hot/shell side cold

### **Nominal Performance**

Heat Exchanger Model	Nominal Capacity			Hot Wat	er Side	Cold Water Side				
			flow		pressure drop		flow		pressure drop	
	kW	BTU/h	l/min	USGPM	kPa	PSIG	l/min	USGPM	kPa	PSIG
M 180	53	180,000	150	40	24,0	3.5	227	60	26,2	3.8
M 300	88	300,000	150	40	25,5	3.7	227	60	33,1	4.8
M 500	146	500,000	150	40	27,0	3.9	227	60	24,8	3.6
TW 100	29	100,000	75	20	22,3	3.2	227	60	37,2	5.4
TW 200	57	200,000	75	20	32,3	4.7	227	60	40,5	5.9
TW 300	87	300,000	75	20	44,3	6.4	227	60	44,1	6.4
TW 400	113	400,000	75	20	52,7	7.6	227	60	46,2	6.7

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