



SEC *Heat Exchangers*

TECHNICAL CATALOGUE

Section 3

PL/PLT Models

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PL/PLT type Heat Exchangers

We are pleased to introduce our new revolutionary line of **PL (Stainless Steel)** and **PLT (Titanium)** heat exchangers.

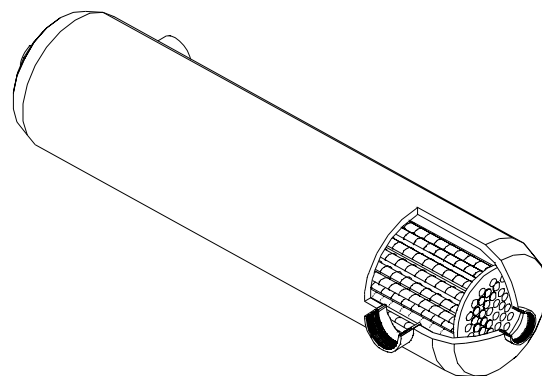
Thanks to the patented helically corrugated tube design, the **PL/PLT** heat exchangers can deliver excellent thermal performance even with fouled heating media.

Typical Residential and Commercial Applications

- In-floor heating
- swimming pools, spas, hot tubs
- driveway snowmelts

Typical Industrial Applications

- oil coolers
- transmission and engine coolers
- boiler sample coolers
- waste water heat recovery



The Benefits To You

- Designed to perform at high fluid velocities with low pressure drops
- Made entirely of high quality, specially treated AISI 316L stainless steel (PL) or titanium (PLT) to ensure superior corrosion resistance and longer product life
- Induced self-cleansing feature - one less thing to worry about

Availability

All models are kept in stock for immediate delivery.

Table 1

Model	PL/PLT-45	PL/PLT-70	PL/PLT-130	PL/PLT-180	PL/PLT-250	PL/PLT-300	PL/PLT-500	PL/PLT-1000
Corrected Output (Btu/h)	46,954	65,124	106,019	134,631	149,869	157,699	199,555	426,200

1C = (1F-32)x5/9 , 1 USGPM=3.78 l/min

Table 2 Quick Sizing Reference

Model	Pool Capacity (USGAL)
PL/PLT-45	3,000
PL/PLT-70	6,000
PL/PLT-130	11,000
PL/PLT-180	16,000
PL/PLT-250	22,000
PL/PLT-300	27,000
PL/PLT-500	44,000
PL/PLT-1000	88,000

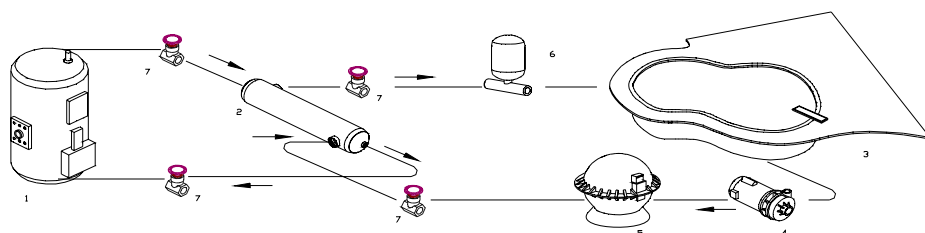


Figure 1 Typical swimming pool installation

1. Boiler
2. Heat exchanger
3. Swimming Pool
4. Pump
5. Filter
6. Chlorine Feeder
7. Gate Valve

ENGINEERING DATA PL/PLT HEAT EXCHANGERS

Table 3 Heat Exchangers Performance

Heat Exchanger Type	Nominal Capacity		Hot Water			Cold Water			Heat Transfer Surface	
			Flow	Pressure drop		Flow	Pressure drop		m ²	ft ²
	kW	Btu/hr	l/min	kPa	psig	l/min	kPa	psig		
PL/PLT 45	13	45,000	23	6.2	0.90	150	7.4	1.07	0.150	1.62
PL/PLT 70	20	70,000	25	7.5	1.09	170	9.2	1.33	0.246	2.64
PL/PLT 130	38	130,000	27	8.1	1.17	200	11.4	1.65	0.339	3.64
PL/PLT 180	53	180,000	30	2.7	0.40	210	7.5	1.1	0.440	4.70
PL/PLT 250	73	250,000	35	4.2	0.60	270	12.0	1.7	0.630	6.80
PL/PLT 300	88	300,000	40	6.4	0.90	300	17.0	2.5	0.840	9.00
PL/PLT 500	146	500,000	55	9.2	1.30	360	22.0	3.2	1.560	16.80
PL/PLT 1000	293	1,000,000	95	16.2	2.35	705	29.1	4.22	1.970	21.21

Nominal values are based on 60°C temperature between incoming heating and heated water.

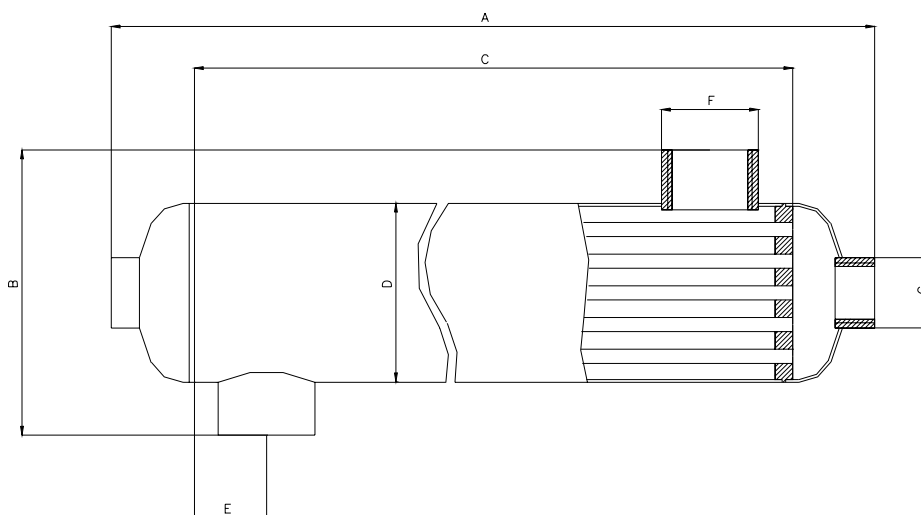


Table 4 Dimensions

Type	A	B	C	D	E	F	G
	mm (in)						
PL/PLT-45	302 (11.89)	156 (6.14)	150 (5.91)	80 (3.15)	37.7 (1.48)	1" NPTF	¾" NPT
PL/PLT-70	402 (15.83)		250 (9.84)				
PL/PLT-130	502 (19.76)		350 (13.77)				
PL/PLT-180	386 (15.19)	143.6 (5.65)	280 (11.02)	101.6 (4)	43.5 (1.71)	1 ½" NPTF	1" NPTF
PL/PLT -250	512 (20.15)		406 (15.98)		41.5 (1.63)		
PL/PLT -300	646 (25.43)		540 (21.26)		44.5 (1.75)		
PL/PLT -500	1106 (43.54)		1000 (39.37)		58 (2.28)	2" NPTF	
PL/PLT - 1000	969 (38.15)	223.0 (8.78)	794 (31.26)	139.7 (5.50)	100.0 (3.94)	2" NPT	2" NPT

Standard Materials : 316L Stainless Steel / Titanium
 Maximum allowable Working Pressure: 250 psig (1.72 MPa)
 Maximum Allowable Working Temperature: 406 F (208 C)

SEC Heat Exchanger Quote Form



**To find out which type of our heat exchangers
will best suit your requirements
please complete this form and send it to us**

Name: _____ Company: _____

Address: _____ City: _____

State: _____ Country: _____ Zip Code: _____

Phone: _____ Fax: _____ Email: _____

Project Reference: _____ Quantity: _____

Material of Construction: _____

Type Of Heat Exchanger: _____ Delivery Required by: _____ In Weeks

SIDE 1

SIDE 2

FLUID TYPE: _____

FLOW RATE: _____

INLET TEMPERATURE: _____ C° or F° _____ C° or F°

OUTLET TEMPERATURE: _____ C° or F° _____ C° or F°

ALLOWABLE
PRESSURE DROP: _____

DESIGN PRESSURE: _____

Optional Data
If Known: _____

HEAT TRANSFERRED
(CAPACITY): _____

DENSITY @
TEMPERATURE: _____

THERMAL
CONDUCTIVITY: _____

SPECIFIC HEAT: _____

VISCOSITY: _____

PHASE CHANGE: _____

Print and Fax This Form to 1.902.659.2800



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