

Willow Springs Distributing, LLC

N7071 US Highway 45, P.O. Box L Wittenberg, WI 54499

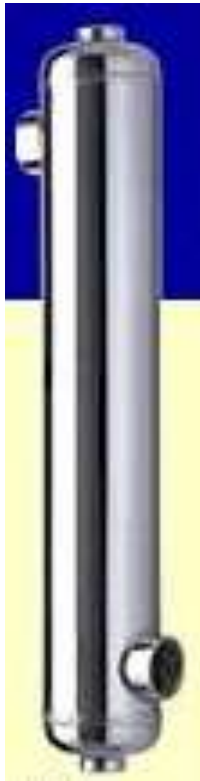
Office 715-253-3010 Fax 715-253-2009

Email: info@willowspringsdistributing.com

Toll Free 888-879-3010



B-Line Shell & Tube Heat Exchangers



B-Line Shell and Tube Exchangers

Designed to perform at high velocities with low pressure drops. Made of high quality, AISI 316L stainless steel to ensure superior corrosion resistance and longer product life. Induced self-cleansing feature - one less thing to worry about.

WARNING: NOT FOR USE IN SALT WATER APPLICATIONS!

Please See the Titanium T-Lines on for use with salt water pools.

Typical Residential 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

To choose a heat exchanger for your specific application, or for help with sizing, please call our office @ 888-879-3010

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B-Line Shell & Tube Heat Exchangers

Wholesale Net Price

Prices Effective July 1st 2010



Part# B-45

Length: (10.51in) Width: (4.17in)
 Heats up to a 3,000 gallon pool
Heat transfer Area
 1.97 Sq. Ft.
NET PRICE

Part# B-130

Length: (15.55in) Width: (4.17in)
 Heats up to a 11,000 gallon pool
Heat transfer Area
 3.30 Sq. Ft.
NET PRICE

Part# B-250

Length: (20.20in) Width: (5.04in)
 Heats up to a 22,000 gallon pool
Heat transfer Area
 7.29 Sq. Ft.
NET PRICE

Part# B-500

Length: (42.72in) Width: (5.04in)
 Heats up to a 44,000 gallon pool
Heat transfer Area
 17.32 Sq. Ft.
NET PRICE



Part# B-70

Length: (13.58in) Width: (4.17in)
 Heats up to a 6,000 gallon pool
Heat transfer Area
 2.79 Sq. Ft.
NET PRICE

Part# B-180

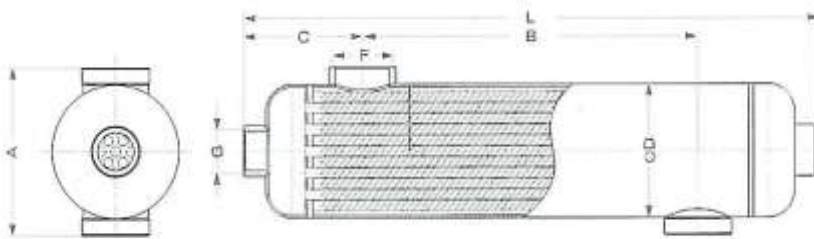
Length: (15.08in) Width: (5.04in)
 Heats up to a 16,000 gallon pool
Heat transfer Area
 4.91 Sq. Ft.
NET PRICE

Part# B-300

Length: (24.88in) Width: (5.04in)
 Heats up to a 27,000 gallon pool
Heat transfer Area
 9.38 Sq. Ft.
NET PRICE

Part# B-1000

Length: (36.10) Width: (6.57in)
 Heats up to a 88,000 gallon pool
Heat transfer Area
 23.68 Sq. Ft.
NET PRICE



Model	A	L	F	G
B-45	4.17"	10.51"	1"	3/4"
B-70	4.17"	13.58"	1-1/2"	3/4"
B-130	4.17"	15.55"	1-1/2"	3/4"
B-180	5.04"	15.08"	1-1/2"	1"
B-250	5.04"	20.20"	1-1/2"	1"
B-300	5.04"	24.88"	1-1/2"	1"
B-500	5.04"	42.72"	2"	1"
B-1000	6.57"	36.10"	2"	2"

Proper sizing based on actual system requirements and parameters is STRONGLY encouraged.

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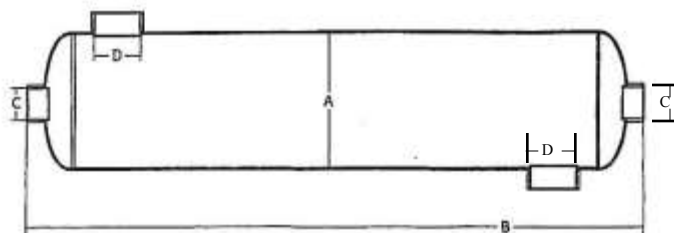
ECO Shell & Tube Heat Exchangers

Wholesale Net Price

Prices Effective July 1st 2010

Part# ECO-85K Heat transfer Area 2.70 Sq. Ft. NET PRICE	<i>Close to B-70</i>	Part# ECO-155K Heat transfer area 3.50 Sq. Ft. NET PRICE	<i>Close to B-130</i>
Part# ECO-210K Heat transfer Area 4.80 Sq. Ft. NET PRICE	<i>Close to B-180</i>	Part# ECO-360K Heat transfer Area 9.10 Sq. Ft. NET PRICE	<i>Close to B-300</i>
Part# ECO-600K Heat transfer Area 16.70 Sq. Ft. NET PRICE	<i>Close to B-500</i>	Part# ECO-1200K Heat transfer Area 21.60 Sq. Ft. NET PRICE	<i>Close to B-1000</i>

Model	A	B	C	D
ECO-85K	2.36"	20.47"	3/4"	1"
ECO-155K	3"	17.72"	1"	1-1/2"
ECO-210K	3"	22.44"	1-1/2"	1-1/2"
ECO-360K	3.51"	32.68"	1-1/2"	2"
ECO-600K	4.49"	35.43"	2"	2-1/2"
ECO-1200K	5.24"	35.43"	2"	2-1/2"



The above are approximate dimensions and may vary slightly

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T-Line Titanium Heat Exchangers



The innovative distinct Tee 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 applications.

**TITANIUM IS FOR USE IN SALT
WATER APPLICATIONS!**

Typical Applications:

- **Swimming pools, spas, hot tubs**
- **In floor heating**
- **Driveway snowmelt**
- **Evaporators / condensers**
- **Marine / saltwater applications**
(Titanium versions only)

To choose a heat exchanger for your specific application, or for help with sizing, please call our office @ 888-879-3010



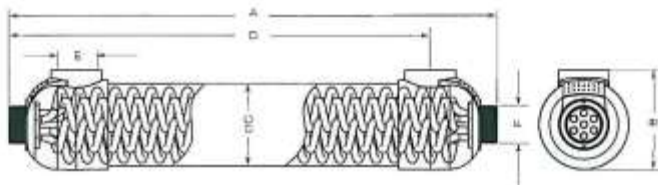
T-Line Titanium Heat Exchangers
Wholesale Net Price
Prices Effective July 1st 2010



	Approximate	Approximate	NET
Model #:	Dimensions	US Gal	PRICE
Special Order T-100	L. 13.5 in W. 4.31in	9000 *	
Special Order T-200	L. 21.3 in W. 4.31in	18000 *	
Special Order T-300	L. 30.28 in W. 4.31in	27000 *	
Special Order T-400	L. 36.26 in W. 4.31in	34000 *	

* Based on 140°F temperature difference between boiler water and swimming pool water. These are nominal values only and are to be treated as a guideline. Consult our office for product selection verification.

Limited Stock Available



Dimensions

Heat Exchanger Type	A		B		C		D		E	F
	mm	in	mm	in	mm	in	mm	in	size	size
T100 / T100SS	343	13.50	110	4.31	90	3.54	192	7.55	1 1/2"	1 1/4"
T200 / T200SS	541	21.30	110	4.31	90	3.54	390	15.35	1 1/2"	1 1/4"
T300 / T300SS	769	30.28	110	4.31	90	3.54	618	24.33	1 1/2"	1 1/4"
T400 / T400SS	921	36.26	110	4.31	90	3.54	771	30.35	1 1/2"	1 1/4"

Pool applications:
 The Tee Line construction is designed for all types of swimming pool applications, including salt water pools. Follow a few simple steps to determine which Tee Line model will best suit your requirements:

1. Calculate your pool capacity

Rectangular pool:
 - capacity [m³] = length [m] x width [m] x average depth [m]
 - capacity [USGal] = 7.5 x length [ft] x width [ft] x average depth [ft]

Circular pool:
 - capacity [m³] = 0.785 x [diameter [m]]² x average depth [m]
 - capacity [USGal] = 5.9 x [diameter [ft]]² x average depth [ft]

* Based on 60°C (140°F) temperature difference between boiler water and swimming pool water. These are nominal values only and are to be treated as a guideline. Consult our office for product selection verification.

Quick sizing reference chart *

Quick sizing reference *

Model	Pool Capacity	
	m ³	USGal
T100	34	9000
T200	68	18000
T300	100	27000
T400	130	34000

ASK ABOUT OUR NEW LINE OF TITANIUM PLATE AND FRAME HEAT EXCHANGERS. PERFECT FOR USE WITH LOW WATER TEMPERATURES SUPPLIED FROM GEO THERMAL AND SOLAR.

Information needed to Size a Shell & Tube Heat Exchanger

Other useful information on the source side:
 Operating pressure _____
 % of Glycol if any _____
 Max pressure drop or acceptable head pressure. _____

Parameter 1
 Load Side BTU's Needed
 Or
 Load side GPM

Other useful information on the load side:
 Operating pressure _____
 % of Glycol if any _____
 Max pressure drop or acceptable head pressure. _____

Parameter 2
 Incoming Water temp from the heat source.



Parameter 4
 Water temp going to the load side.

Parameter 5
 Incoming Water temp from the load side.

Parameter 3
 Leaving Water temp back to the heat source.

**WARNING PLEASE MAKE NOTE:
 IF THIS IS A SALT WATER APPLICATION!!!**

This shows counter current flow design **Parameters In Red Are Required.**



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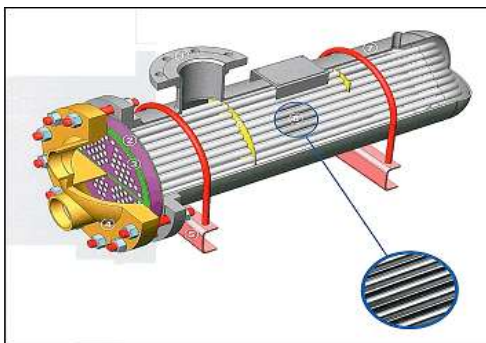
Special Order Heat Exchangers



**A-Line
Plate and Frame**



**JAD Line
Shell and coil**



**PS/PW Line
Shell and Tube**



**L-Line
Double Walled**

Also available in custom order are:

Steam Coils

Hot Water Coils

Chilled Water Coils

Evaporator Coil-DX Coils

**These are all special order to the job.
Please call for correct sizing and use.**

ASK ABOUT OUR NEW LINE OF TITANIUM PLATE AND FRAME HEAT EXCHANGERS. PERFECT FOR USE WITH LOW WATER TEMPERATURES SUPPLIED FROM GEO THERMAL AND SOLAR.

