

Diversified Heat Transfers' warranty obligations are limited to the terms set forth below:

Diversified Heat Transfer, Inc. ("DHT") warrants to the original purchaser that this product will be free of manufacturing defects in material and workmanship for a period of one

(1) Year from the original purchase date, or eighteen (18) months from DHT's original invoice, whichever expires first. The original purchase date as used herein shall mean the date stated in the vendor's original invoice.

DHT will, at its option, repair or replace this product without charge if it is found to be defective during the limited warranty period specified above. If DHT chooses, at its discretion, to replace any product for which there is a valid warranty claim, DHT shall replace the product with the same model or, if such model is not available, with a model which is, in DHT's reasonable judgment, the nearest compatible model available at the time of replacement. Note that each purchaser is limited to one (1) product replacement during the warranty period of the original claim.

NOT UNDER COVERAGE BY THIS WARRANTY

This limited warranty covers defects encountered in normal use of the product while operating according to the specifications set forth by DHT. The warranty is void and shall not apply to the following, including, but not limited to:

1. The failure or malfunction results from improper or negligent operation, abuse, misuse or maintenance or unauthorized alteration.
2. Malfunctions resulting from, or repairs necessitated by, uses of the product for purposes other than that for which it was designed, or resulting from flood, fire, wind, lightning, freezing, or any other natural disaster, an act of God, an act of destruction, theft, or accident.
3. Damages to the product that occur during shipment.
4. Damages caused by improper or faulty installation.
5. Products exposed to corrosive elements harmful to the structural integrity and durability of the product.
6. Products installed outside of Canada and the United States.

DHT shall not be liable for any direct, special, incidental, or consequential damages caused by the use, misuse, or inability to use this product. DHT is under no legal obligations to rectify, including but not limited to, lost profits, downtime, goodwill, damages to or replacement of equipment and property. Purchaser assumes all risk and liability for loss, damage or injury to purchaser and purchaser's property and to others and their property arising out of the use, misuse or inability to use this product. This limited warranty shall not extend to anyone other than the original purchaser of the product.

MAKING A WARRANTY CLAIM

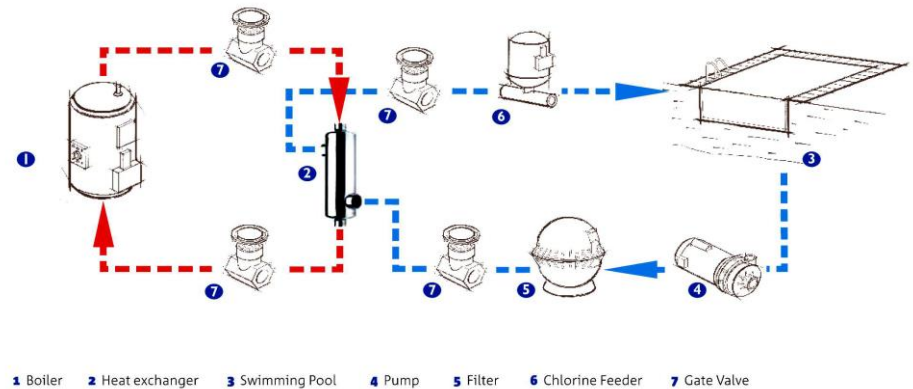
To file a claim under this warranty, the purchaser must do the following during the warranty period: Before returning the product to DHT for warranty service, the purchaser must complete the Warranty Claims Form (attached) and fax it to DHT at (718) 386-7809 or email warranty@dhtnet.com. Upon preliminary assessment of the claim, DHT will send the purchaser a Request for Inspection Form, along with an Inspection Tag and a Return Goods Authorization (RGA) number. The Inspection Tag and RGA number must be clearly displayed and attached to the product on its return to DHT before it can be processed. Proper packing of the product in the original container, or equivalent, is the responsibility of the purchaser. This warranty does not cover expenses or labor for disassembly, removal, shipment, reassembly or reinstallation; the purchaser will be responsible for such costs.

DHT RESERVES THE RIGHT TO CHANGE SPECIFICATIONS OR DISCONTINUE MODELS WITHOUT NOTICE.

Additional Warranty Exclusions and Limitations for Pool/Spa Use

1. DHT does not warrant heat exchangers exposed to corrosive water/elements harmful to the structural integrity and durability of the product.
2. The warranty is void and shall not apply if units fail due to faulty installation and operation of chlorinator (read note below)
3. Damage to the heat exchanger due to improper water chemistry is not covered under the warranty
4. When filing a warranty claim, DHT reserves the right to request a water sample analysis from an independent laboratory. If the claim is deemed valid, DHT will reimburse the purchaser for the cost of the analysis.

Sample Installation Diagram



- Boiler/Heating Circuit through the TUBE SIDE
- Pool Circuit through the SHELL SIDE
- Connect in counter-current flow to achieve maximum effectiveness

NOTE:

- This is only a conceptual drawing. A qualified installer must determine whether this system setup will work in each application. Installer must also ensure compliance with code requirements.


Swimming Pool

Hot side Boiler 180°F → 160°F
 Water
 Pool Side maintained at 84°F

Pool Capacity	Boiler Output	1°F/hr Heat Rise	Boiler Output	2°F/hr Heat rise
Gallon	(Btu/hr)	Heat Exchanger Model	(Btu/hr)	Heat Exchanger Model
8,000	67,000	TI-180	134,000	TI-180
10,000	83,000	TI-180	166,000	TI-180
12,000	100,000	TI-180	200,000	TI-300
14,000	117,000	TI-180	234,000	TI-300
16,000	133,000	TI-180	266,000	TI-300
18,000	150,000	TI-180	300,000	TI-300
20,000	166,000	TI-180	332,000	TI-500
22,000	182,000	TI-300	364,000	TI-500
24,000	200,000	TI-300	400,000	TI-500
26,000	215,000	TI-300	430,000	TI-500
28,000	232,000	TI-300	464,000	TI-500
30,000	248,000	TI-300	496,000	TI-500
32,000	265,000	TI-300	530,000	2XB- TI-300
34,000	282,000	TI-300	564,000	2XB- TI-300
36,000	298,000	TI-300	596,000	2XB- TI-300
38,000	315,000	TI-500	630,000	2XB- TI-300
40,000	331,000	TI-500	662,000	2XB- TI-300
42,000	348,000	TI-500	696,000	2XB- TI-500
44,000	364,000	TI-500	728,000	2XB- TI-500
60,000	497,000	TI-500	994,000	2XB- TI-500
80,000	662,000	2XB- TI-300	1,324,000	2XB- TI-500
100,000	830,000	2XB- TI-500	1,660,000	2XB- TI-500

MODELS	HTA	Overall Length	Shell OD	Connections	
	(ft ²)	(in)	(in)	Tubeside	Shellside
TI-180	4.7	16.1	4.1	1.25" NPT	1.5" FNPT
TI-300	9.0	25.9	4.1	1.25" NPT	1.5" FNPT
TI-500	16.8	43.8	4.1	1.25" NPT	1.5" FNPT

DESIGN PRESSURE: 150 PSI DESIGN TEMPERATURE: 406 °F
 MATERIAL OF CONSTRUCTION: TITANIUM

 **Warning**

Before proceeding with installation and operation, read entire manual carefully. Failure to do so can cause injury or property damage.

E-ZEE Flow TI Series Heat Exchanger installation must conform to the instructions in this manual and local, state, provincial, and national codes & laws etc. where applicable

E-ZEE Flow TI Series Heat exchanger is not intended for outdoor installation. It must be sheltered from direct contact of rain and moisture.

Minimum distance between the Boiler and heat exchanger is recommended as it would reduce piping heat loss and pressure drop.

It is recommended that the heat exchanger be installed in an area at or above the pool water level. Installing the heat exchanger in an area below the pool water level, such as a basement, may result in extensive flooding of the area and potential draining of the pool in the event of a leak.

IMPORTANT Chlorinator Note:

When adjusting chlorinator feeder, or when shock-chlorinating the pool, isolate the heat exchanger (by closing isolation valves and opening the bypass line) until the chlorine level in the pool returns to the proper level.

Chlorinators must feed downstream of the heat exchanger and have an anti- siphoning device to prevent chemical back up in the heat exchanger when the pump is shut off.