

Specifications for Ti-HXF Titanium helix coil & PVC insulated shell Heat Exchanger (Direct Expansion)

Model#	HP	BTUH	KW	Refrigeration		Water IN / OUT	Water Flow (GPM)		A	B	C	D	Ship WT(LBS)
				IN	OUT		Min	Max					
Ti-HXF-6	1.5- 2	18-24,000	5.3-7	1/2"	3/4"	2" Unions	30	70	36"	15.5"	17.5"	13.5"	130 ***
Ti-HXF-7	3 - 4	36-48,000	10.5-14	1/2"	3/4"	2" Unions	30	70	48"	31.5"	17.5"	13.5"	160 ***
Ti-HXF-8	5	60,000	17.5	1/2"	3/4"	2" Unions	40	80	59"	45.5"	17.5"	13.5"	190 ***
Ti-HXF-9	7.5	90,000	26.3	1/2"	3/4"	2" Unions	40	80	72"	60.5"	17.5"	13.5"	220 ***
Ti-HXF-9-D7 *	8	96,000	28.0	7/8"	1-1/8"	2" Unions	50	80	56"	31.5"	18"	27"	260 ***
Ti-HXF-10-D8 **	10	120,000	35.0	7/8"	1-3/8"	2" Unions	50	80	66"	45.5"	18"	27"	270 ***

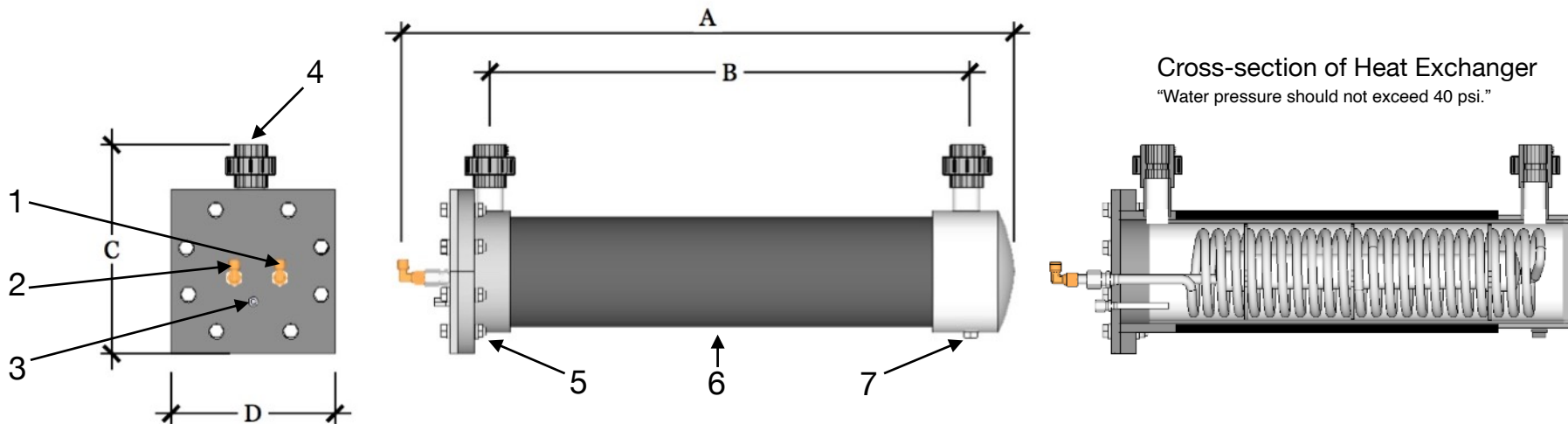
* Two Ti-HXF-7 paired together to achieve 8HP capacity. For high water flow rate applications, the Heat-Exchangers can be connected in parallel. **Pg.2 for more information.**

** Two Ti-HXF-8 paired together to achieve 10HP capacity. For high water flow rate applications, the Heat-Exchangers can be connected in parallel. **Pg.2 for more information.**

*** Shipping is approximate

● Specifications subject to change without notice. Dimensions may vary, if size is critical please contact Marine Build to discuss options.

● Nominal HP rating based on 12,000 BTUH using 134A or 410A Refrigerant. **Contact Marine Build** for BTUH capacity at different water temperatures.



1. Refrigeration OUT Connection 90° Union Elbow SAE 45° Flare Fitting
2. Refrigeration IN Connection 90° Union Elbow SAE 45° Flare Fitting
3. 1/2" OD titanium dry-well for temperature sensor.
4. Water connection IN / OUT 2" Sch40 Unions, Slip connection.
5. 304 Stainless steel hardware
6. Mold Resistant Insulated PVC shell .
7. 3/4" NPT Drain Plug



Insulated PVC Flanged shell that houses a titanium helix coil. The shell and coil are non-toxic, corrosive resistance and will not leech harmful chemicals into salt water.

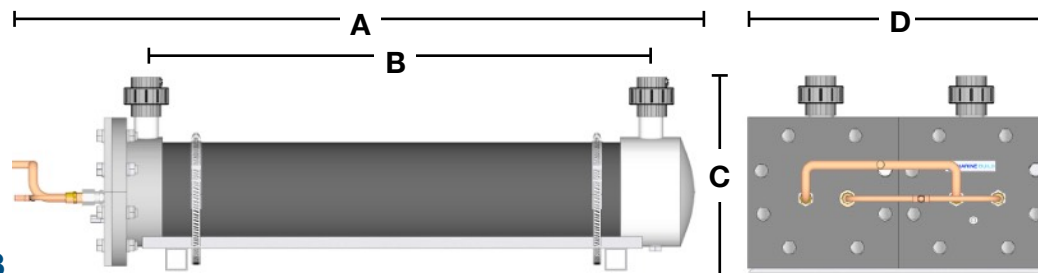
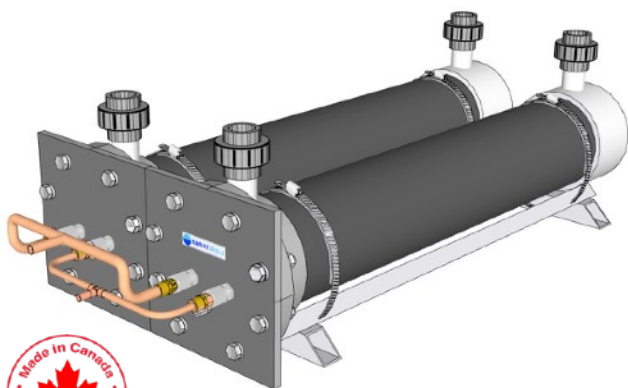
Ti-HXF-9-D7 & Ti-HXF-10-D8 Continuation

The optimized design of the Ti-HXF-9-D7 & Ti-HXF-10-D8 makes this series as compact as it can get for a horizontal double chiller barrel system. Our Heat-Exchanger barrels are compatible for both fresh and salt-water. The pre-installed copper piping assembly makes it easy for a technician to connect up to.

- The Heat Exchanger barrels can be plumbed either in series or parallel, and must be done by the installer

Note:

Parallel plumbing configuration should be done in applications that require a high flow rate, because the water flow-rate will be cut in half in the chiller barrel when in parallel. To accomplish the recommended flow rates on the chart, the overall flow rate should be doubled for parallel configurations.



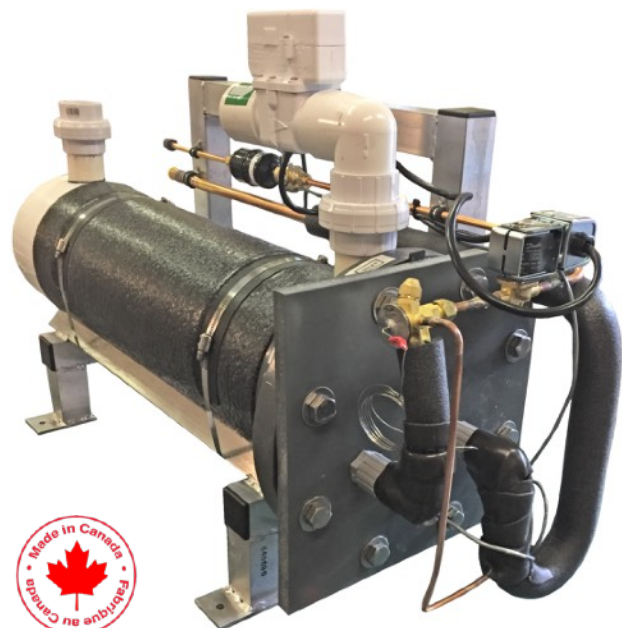
Specifications for Ti-HXF-9-D7 & Ti-HXF-10-D8

Model#	HP	Refrigeration		Water	Water Flow (GPM)		A	B	C	D
		IN	OUT		IN / OUT	Min				
Ti-HXF-9-D7	8	7/8"	1-1/8"	2" Unions	50	80	56"	31.5"	18"	27"
Ti-HXF-10-D8	10	7/8"	1-3/8"	2" Unions	50	80	66"	45.5"	18"	27"

Aluminum Frame Info.

Model #	Dimensions	Material
Ti-HXF-7-D7-Frame	27" x 29" x 3-1/2"H	Marine Grade Aluminum Square Tubing
Ti-HXF-10-D8-Frame	27" x 42" x 3-1/2"H	Marine Grade Aluminum Square Tubing

- The body of the frame is welded together using 2" square tubing with a wall thickness of 0.125".
- There are four aluminum angle lengths welded on to the top of the frame. Stainless steel gear clamps are used to strap the Heat Exchanger to the angles.
- There are four 1/2" mounting holes, which allows the frame to be bolted down.



Titanium Helix Coil Heat Exchanger Package

Marine Build's horizontal mounted exchanger packages uses UL and CSA certified components. The floor mounted aluminum frame is made from marine grade aluminum which has excellent corrosion resistant properties. The Chiller barrel shell is Sch40 PVC that is NSF and CSA certified. The titanium helix coil is made out of Grade 2 Commercially Pure titanium tubing, which has both excellent structural strength as well as superior corrosion resistance. The titanium conforms to the requirements of ASME SB338-15 Grade 2, and purchased from an ISO 9001 company.

Each package Includes:

- Easy-to-use Electronic Controller for precise digital readout
- Expansion Valve
- Solenoid Valve & Coil
- Sight glass for monitoring refrigerant condition
- Flow switch (LOOSE)
- All units plumbed with unions for easy installation.

Power supply of 120V is required. Contact Marine Build for more options.
Condensing units sold separately.

Specifications for Ti-HXFH Titanium helix coil & PVC insulated shell Heat Exchanger Package (Direct Expansion)

Model#	HP	BTUH	KW	Refrigeration		Water		Water Flow (GPM)		A	B	C	D	Ship WT(LBS)
				IN	OUT	IN	OUT	Min	Max					
Ti-HXFH-6	1.5 - 2	18-24,000	5.3-7	1/2"	3/4"	2" Unions		30	70	36"	15.5"	21.5"	13.5"	130 ***
Ti-HXFH-7	3 - 4	36-48,000	10.5-14	1/2"	3/4"	2" Unions		30	70	48"	31.5"	21.5"	13.5"	160 ***
Ti-HXFH-8	5	60,000	17.5	1/2"	3/4"	2" Unions		40	80	59"	45.5"	21.5"	13.5"	190 ***
Ti-HXFH-9	7.5	90,000	26.3	1/2"	3/4"	2" Unions		40	80	72"	60.5"	21.5"	13.5"	220 ***
Ti-HXFH-9-D7 *	8	96,000	28.0	7/8"	1-1/8"	2" Unions		50	80	56"	31.5"	21.5"	27"	340 ***
Ti-HXFH-10-D8 **	10	120,000	35.0	7/8"	1-3/8"	2" Unions		50	80	66"	45.5"	21.5"	27"	370 ***

* Two Ti-HXF-7 paired together to achieve 8HP capacity. For high water flow rate applications, the Heat-Exchangers can be connected in parallel. **Pg.4 for more information.**

** Two Ti-HXF-8 paired together to achieve 10HP capacity. For high water flow rate applications, the Heat-Exchangers can be connected in parallel. **Pg.4 for more information.**

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- Nominal HP rating based on 12,000 BTUH using 134A or 410A Refrigerant. **Contact Marine Build** for BTUH capacity at different water temperatures.

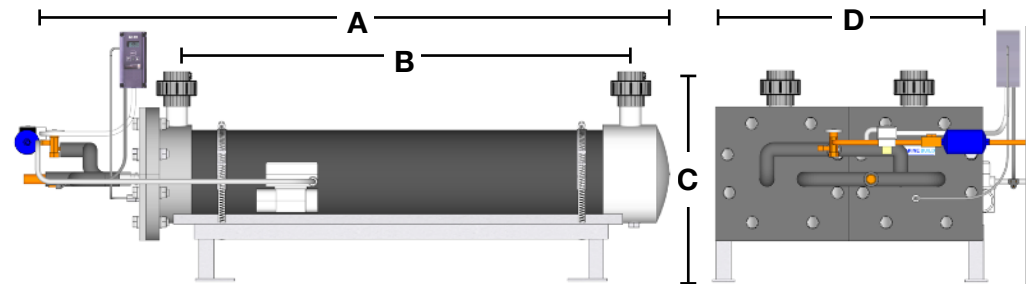
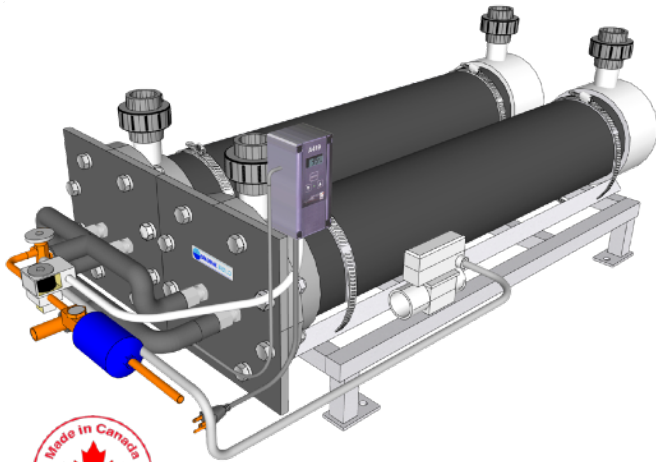
Ti-HXFH-9-D7 & Ti-HXFH-10-D8 Continuation

The Ti-HXFH Heat Exchanger Package Series will come pre-assembled and has a compact design. Our Heat Exchanger barrels are compatible for both fresh and salt-water. The pre-installed copper piping assembly makes it easy for a technician to connect up to.

- The Heat Exchanger barrels can be plumbed either in series or parallel, and must be done by the installer
- A power supply of 120V is required for the Electronic Controller. Contact Marine Build for more options.

Note:

Parallel plumbing configuration should be done in applications that require a high flow rate, because the water flow-rate will be cut in half in the chiller barrel when in parallel. To accomplish the recommended flow rates on the chart, the overall flow rate should be doubled for parallel configurations.



Specifications for Ti-HXFH-9-D7 & Ti-HXFH-10-D8

Model#	HP	Refrigeration		Water	Water Flow (GPM)		A	B	C	D
		IN	OUT		IN / OUT	Min				
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Ti-HXFH-10-D8	10	7/8"	1-3/8"	2" Unions	50	80	66"	45.5"	21.5"	27"

Aluminum Frame Information

Model #	Dimensions	Material
Ti-HXFH-7-D7-Frame	27" x 29" x 7-1/4"H	Marine Grade Aluminum Square Tubing
Ti-HXFH-10-D8-Frame	27" x 42" x 7-1/4"H	Marine Grade Aluminum Square Tubing

- The body of the frame is welded together using 1.5" square tubing with a wall thickness of 0.125".
- There are four aluminum angle lengths welded on to the top of the frame. Stainless steel gear clamps are used to strap the Heat Exchanger to the angles.
- The frame has four support legs, which brings it off the ground by 4.25". There are four support feet with a 1/2" mounting holes, which allows the frame to be bolted down.