



Turbo-Flow and Pool-Safe Coil Dimensions

 **Turbotec**[®]

TRU-TWIST® by Turbotec

Turbotec's patented TRU-TWIST® technology imparts an enhanced surface configuration to any metal tubing. The process provides more surface area for a given length of tubing and creates a turbulent mixing action that results in a very high heat transfer through the tube walls. TRU-TWIST® tubing can be readily shaped, without distortion, into space-saving configurations.

Turbotec Advantages

- Up to 350 percent enhancement in BTU/Hr. heat transfer
- Increased internal burst pressure and compression strength
- Plain tube ends for simple connection
- Lower cost compared to other specialized tubing

Turbotec tubing and heat exchangers are available in a variety of metals including copper, cupro-nickel, aluminum, titanium, stainless and carbon steel. Information on other materials is available upon request.

Heat Exchanger Applications

Turbotec's unique heat transfer surfaces offer high performance in condensers, evaporators, chillers, desuperheaters, heating/cooling coils, and many other heat exchanger applications. When compared with smooth-tube exchangers with equal pressure drop they offer a four-fold improvement in condensation and up to a three-fold improvement in single-phase heat transfer.

Coil Selector



Turbo-Flow™ Coaxial Coils

Turbo-Flow™ coaxial coils use our Tru-Twist® inner tubes to create turbulent flow and provide more heat transfer surface in a compact package. More BTU's per dollar make our coils the industry standard for residential and commercial heating and cooling. Water-cooled, water-source and earth-coupled equipment manufacturers worldwide turn to Turbotec's high efficiency condensers and evaporators.

- Heat Pump/ Chiller/ Evaporator Coils/ Water-Cooled Condensers
- Marine Application Coils
- Ice Machine Coils
- Double-Wall Refrigerant Desuperheaters

Pool-Safe™ Swimming Pool Heat Pump Coils

Turbotec Titanium and plastic tube heat exchangers, manufactured to precise standards, have raised the bar when it comes to the swimming pool heat pump industry. Pool-Safe™ is the clear choice for top swimming pool heat pump manufacturers. In fact, our tubing and coils provide solutions to many of the world's leading original equipment manufacturers for pool care applications, including residential and commercial applications. Our breakthrough titanium coaxial heat exchange tubing is perfect for corrosive and erosive environments including pool and spa water applications. Ideal for new and replacement applications, titanium tubing is impervious to harsh and potentially corrosive chemicals found in demanding environments.

Pool-Safe™ heat exchangers are designed to withstand the effects of chlorides and other chemicals found in pool water making it the logical choice for swimming pool and spa applications.

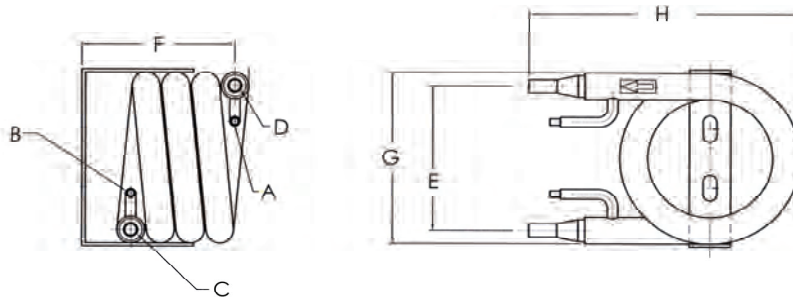
Model Number Configurator

Sample Model Number

B	T	S	S	C	- 48 -	ES	5S	TJ	WB
<i>Coil Usage/ Class</i>	<i>Coil Construction</i>	<i>Shape of Coil</i>	<i>Jacket/Outer Tube Material</i>	<i>Twisted Tube Material</i>	<i>Nominal Heat Exchange Rating in Thousands of BTU's</i>	<i>Assembly Options</i>			
B -Cond. & Evap.	T -Tube-in Tube Unit	H -Helical	C -Copper	C -Copper		ES -Enhanced Surface			
C -Condenser		O -Other	K -Stainless Steel	K -Stainless Steel		5S -Number of Flutes			
E -Evaporator		S -Spiral/Slim	S -Carbon Steel	N -Cupronickel		TJ -Tight Jacket			
D -Desuperheater		T -Trombone	V -Plastic	S -Carbon Steel		WB -With Brackets			
		U -U-shape		T -Titanium		xH -Wrap Direction			
				Fxx *Double Wall Assembly					

* **xx** represents materials for each wall

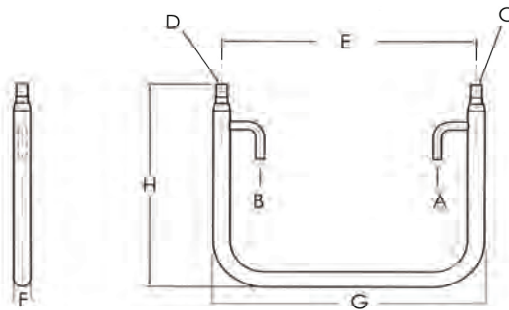
Ice Machine Coils



Model	Nominal Capacity (Tons)	A,B	C,D	E	F	G	H
BTHSN-06	0.500	0.250	0.375	5.500	4.750	7.000	9.500
BTHSN-09	0.750	0.250	0.375	5.500	6.250	7.000	9.500
BTHSN-12	1.000	0.250	0.375	5.500	8.000	7.000	9.500
BTHSN-15	1.250	.375/.25	0.500	7.625	5.625	8.875	12.375
BTHSN-18	1.500	0.375	0.500	7.625	7.000	8.875	11.500
BTHSN-20	1.667	0.375	0.500	8.000	7.625	9.125	10.750
BTHSN-24	2.000	.50/.375	0.500	9.375	7.500	10.750	13.000
BTHSN-36	3.000	.50/.375	0.500	9.500	7.750	10.875	13.500

Copper Inner tube also available

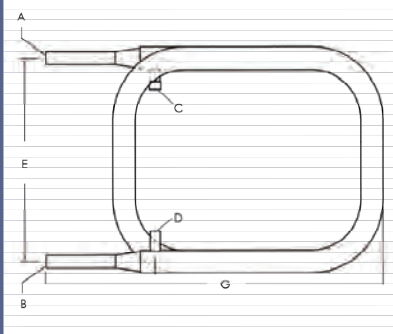
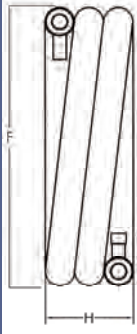
Refrigerant Desuperheaters



Model	Capacity (Tons)	A,B	C,D	E	F	G	H
* DTSSFSC-06	0.500	0.383	0.500	1.375	1.000	N/A	10.000
DTUSFSC-12	1.000	0.375	0.500	8.000	1.000	9.000	10.000
DTUSFSC-24	2.000	0.500	0.500	16.000	1.125	17.125	14.000
DTUSFSC-42	3.500	0.500	0.500	16.000	1.125	17.125	17.750
DTUSFSC-48	4.000	0.508	0.508	18.000	1.125	19.125	20.630
DTUSFSC-60	5.000	0.508	0.508	18.000	1.375	19.375	20.750

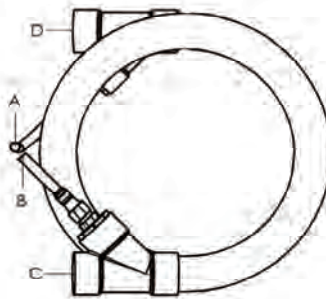
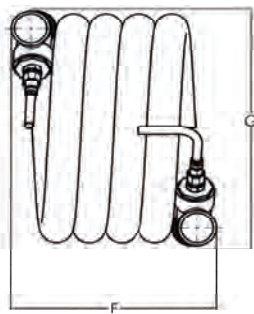
* Straight Stick tube-in-tube

Marine Application Coils



Model	Capacity (Tons)	A,B	C,D	E	F	G	H
BTHCN-03	0.250	0.625	0.250	5.500	6.250	10.000	1.880
BTHCN-05	0.417	0.625	0.250	7.000	7.880	7.750	1.880
BTHCN-06	0.500	0.625	0.375	7.500	8.500	10.130	2.250
BTOCN-09	0.750	0.625	0.375	8.630	8.630	11.500	2.250
BTOCN-12	1.000	0.625	0.375	8.630	9.880	10.250	2.300
BTOCN-14	1.167	0.625	0.375	10.880	12.000	12.880	2.500
BTOCN-16	1.333	0.625	0.375	9.500	10.750	11.000	2.300
BTOCN-18	1.500	0.625	.50/.375	9.880	11.125	17.000	3.630
BTOCN-24	2.000	0.625	.50/.375	13.380	14.750	14.500	3.000
BTOCN-30	2.500	0.625	1.000	11.130	12.250	23.000	3.630

Pool Safe™ PVC and Titanium Heat Pump Coils

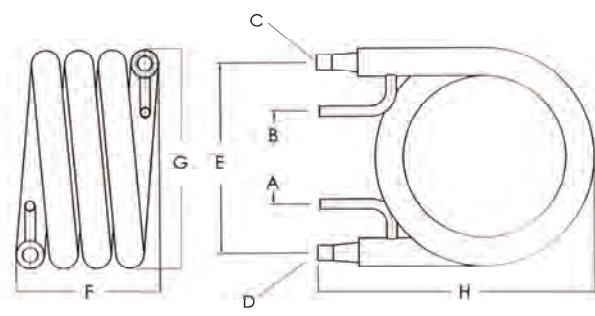
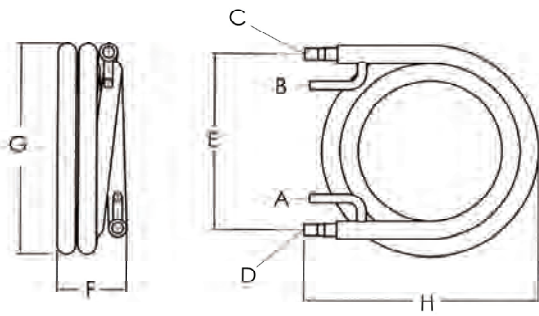


* Model	Capacity (Tons)	A,B	C,D	E	F	G	H
CTHVT-40	4	0.625	2.000	N/A	7.130	19.500	20.250
CTHVT-55	5	0.625	2.000	N/A	10.38	19.500	20.750
CTHVT-70	6	0.625	2.000	N/A	12.75	19.500	20.440

* Tall configurations available for canister replacement applications.

Heat Pump/Chiller/Evaporator/Water-Cooled Condensers

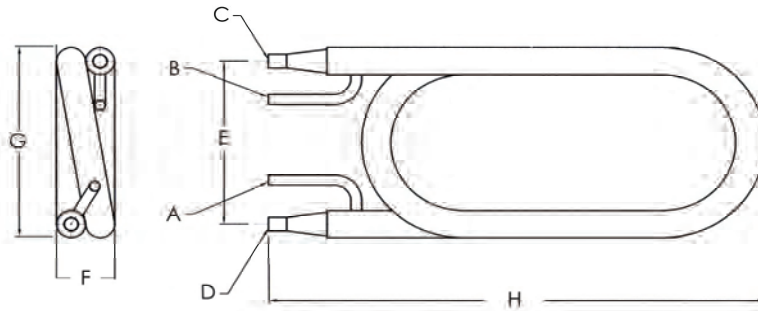
SPIRAL



HELICAL

Model	Capacity (Tons)	A,B	C,D	E	F	G	H
BTHSC-06	0.500	0.375	0.625	5.750	5.188	7.375	9.750
BTHSN-06							
BTHSC-09	0.750	0.375	0.625	5.875	6.310	7.130	9.750
BTHSN-09							
BTHSC-12	1.000	0.375	0.625	5.875	7.500	7.375	9.750
BTHSN-12							
BTHSC-18	1.500	0.500	0.750	8.880	6.500	10.500	12.500
BTHSN-18							
BTHSC-24	2.000	0.500	0.750	9.250	7.25	10.750	13.250
BTHSN-24							
BTSSC-09	0.750	0.500	0.625	7.000	3.630	9.000	11.375
BTSSN-09		0.375					
BTSSC-12	1.000	0.500	0.625	8.750	3.500	10.750	13.000
BTSSN-12		0.375					
BTSSC-24	2.000	0.500	0.750	10.000	5.125	12.750	14.000
BTSSN-24							
BTSSC-30	2.500	0.500	0.750	10.000	5.000	12.750	14.000
BTSSN-30							
BTSSC-36	3.000	0.625	0.875	11.250	6.125	14.500	15.375
BTSSN-36							
BTSSC-42	3.500	0.625	0.875	12.500	5.375	15.500	16.000
BTSSN-42							
BTSSC-48	4.000	0.875	1.125	14.500	6.625	17.750	18.500
BTSSN-48							
BTSSC-60	5.000	0.875	1.125	14.623	7.500	18.000	19.000
BTSSN-60							
BTSSC-72	6.000	.875/.50	1.375	18.500	8.380	20.375	21.750
BTSSN-72		50.000					
BTSSC-84	8.000	1.125	1.375	17.000	9.625	20.500	22.500
BTSSN-84							

Trombones



Model	Capacity (Tons)	A,B	C,D	E	F	G	H
BTTSC-06	0.500	0.375	0.500	6.000	2.125	7.000	17.000
BTTSN-06							
BTTSC-09	0.750	0.375	0.500	6.000	3.000	7.000	23.000
BTTSN-09							
BTTSC-12	1.000	0.375	0.625	6.000	3.000	7.000	18.750
BTTSN-12							
BTTSC-15	1.500	0.500	0.625	6.000	2.190	7.125	22.630
BTTSN-15							
BTTSC-20	1.700	0.500	0.625	6.000	2.375	7.125	35.375
BTTSN-20							
BTTSC-24	2.000	.50/.38	0.750	7.500	2.375	9.000	22.750
BTTSN-24							

All Turbotec coils are built to the highest quality standards for all types of heat exchanger solutions. Our coils use our patented TRU-TWIST™ technology and are rated at 450 psig refrigerant and 350 psig water side. All standard Turbotec heat exchangers are U.L. and CSA listed. Greater capacities are available; please contact us for details.

All coil dimensions in this guide are for estimating purposes only; actual coil dimensions may vary by material selection and coil size configuration. Please check with customer service when ordering.

Bracketed coil assemblies are available at an additional charge.

Due to fluctuating material costs, all prices are subject to change without notice.

Manifolded coils are available upon request. Please contact Application Engineer for availability.

TURBOTEC LIMITED WARRANTY FOR ALL COILS AND TUBING

One Year Warranty The Manufacturer (Turbotec) warrants to the original purchaser that the "Product" (Coils and Tubing) will be free from defects in material and workmanship for one year from the date of installation of the product or 18 months from the date of shipment from the factory, whichever comes first. If upon examination by the manufacturer the product is shown to have a defect in material or workmanship during the warranty period, the manufacturer will repair or replace, at its option, the product which is shown to be defective.

Five year warranty (Titanium) The manufacturer further warrants to the original purchaser that the Product with Titanium will be free from defects in material and workmanship for 5 years from the date of shipment from the factory. If upon examination by the manufacturer the Product is shown to have a defect in material or workmanship during the warranty period, the manufacturer will repair or replace, at its option, that Product which is shown to be defective.

This Warranty Does Not Apply: a) if the Product has been subject to misuse or neglect, has been accidentally or intentionally damaged, has not been applied, installed, maintained, or operated in accordance to the manufacturer's instructions or has been modified or altered in any way. b) to any expense including labor or material, incurred during removal or reinstallation of the product. c) to any auxiliary equipment furnished by others. Any warranties for such items shall be limited to those warranties offered by the original equipment manufacturer. d) to any workmanship of any installer of the product. e) any damage to the Product due to corrosion, erosion, scaling or product effected by oxides or chemicals. f) to any damage to the Product caused by fatigue from excessive flow conditions.

This Limited Warranty is Conditional Upon : a) shipment to the manufacturer of the product thought to be defective. Goods may only be returned with prior written approval of the manufacturer. All returns must be freight prepaid. b) determination in the reasonable opinion of the Manufacturer that there exists a defect in material or workmanship.

Repair or replacement of any part under this Limited Warranty shall not extend the duration of the warranty with respect to such repaired or replaced part beyond the stated warranty period.

This Limited Warranty is in lieu of all other warranties, either expressed or implied, and such other warranties, including without limitation implied warranties of merchantability or fitness for a particular purpose are hereby disclaimed and excluded from this limited warranty. In no event shall the manufacturer be liable in any way for consequential, special, or incidental damages of any nature whatsoever, or for any amounts in excess of the selling price of the product or any parts thereof found to be defective. This limited Warranty gives the purchaser specific legal rights. You may also have other rights, which may vary by each jurisdiction.

 **Turbotec**[®]

Turbotec Products, Inc.

651 Day Hill Road
Windsor, CT 06095

Tel: 860.683.2005

Fax: 860.683.2133

turbotecproducts.com

sales@turbotecproducts.com

