



SEC *Heat Exchangers*

TECHNICAL CATALOGUE

Section 7

Titanium Models

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Titanium Series

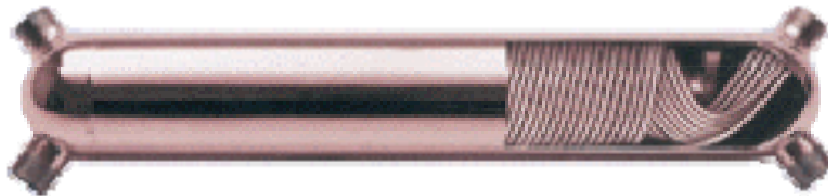


Titanium Series

- superior corrosion resistance
- custom and standard designs
- industrial, marine, aquaculture

The use of titanium is gaining popularity in the heat transfer field. However, up to now the fabrication of titanium heat exchangers using traditional designs has made the resulting products expensive. The high cost of titanium makes it imperative that designs utilizing the latest heat transfer technology be considered. SEC has been successful in applying the highly efficient shell and coiled tube technology to the manufacture of titanium heat exchangers. The result is less material used to achieve the required heat transfer, thereby lowering the price significantly when compared to the outdated designs still being produced by other manufacturers.

Please send us your project requirements and we will gladly select the SEC coiled tube model best suited for your application.



Technology and Design

The coiled tube bundle consists of circular layers of helically corrugated tubes placed inside each other. The fluid in each layer flows in the opposite direction to the layer surrounding it, resulting in an overall criss-cross pattern. The large number of tubes packed closely together give an extensive heat transfer surface within a light compact shell. The alternate layers provide rapid uniform heating of fluids increasing the overall heat transfer coefficient. Corrugated tubes produce a turbulent flow where the desired characteristic of fluctuating velocities is achieved. This random movement of fluid particles reduces deposit buildup by performing a "scoop and lift" action. The connection locations and angle of entry is specially selected to reduce the probability of debris buildup.

Construction Features

The SEC coiled tube series of heat exchangers are fabricated as a single unit with no removable components. Coiled tube bundles are welded to a compact tube sheet located within the entry and exit connections. The cylindrical shell is terminated by hemi-spherical heads. In stock design variations include smooth or corrugated tubes, angled or 90° connections in flanged or NPT termination.

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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