



SEC *Heat Exchangers*

TECHNICAL CATALOGUE

Section 8

Non Metallic Models

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Non-Metallic Series



Non-Metallic

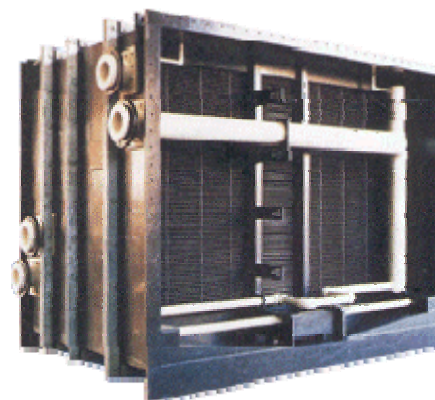
- corrosive or high purity fluids
- immersion type
- tube and plate designs
- gas/liquid designs

There are applications where a non-metallic heat exchanger is required and for these SEC has the answer. The all-plastic construction is specifically designed for heating or cooling of highly corrosive media. Standard materials of manufacture are PVDF (polyvinylidene fluoride), polypropylene, and polyethylene.

Gas/Liquid Heat Exchangers for Corrosive Gases

SEC Gas/Liquid Heat Exchangers are designed specifically for condensing and/or reheating highly corrosive gas streams. Manufactured from tough, impact-resistant PVDF, polyethylene, or PP, these exchangers are capable of handling gas stream temperatures up to 280°F. A patented process completely eliminates elastomers, seals, and mechanical joints which might produce weak areas subject to chemical attack, stress cracking, and leakage.

Typical uses are condensation recovery of acidic components from gas streams generated in garbage and biological waste incineration, reheating of stack gases for plume reduction, and waste heat recovery.



Tube Plate Heat Exchangers

These heat exchangers find applications where heat transfer between corrosive fluids is required.

They are very suitable for high purity DI water, other high purity fluids, and condensation of aggressive vapors. The SEC Tube Plate Heat Exchanger is an entirely new concept in heat exchanger design. It is designed to handle most corrosive heating and cooling application when an external type heat exchanger is required. The heat transfer surface consists of a number of tube plates which are heat fused one on top of the other. The stacked tube plates form a continuous parallel series of tubes across which the shell fluid flows. The tube fluid flows within the individual tubes.

Immersion Style Heat Exchangers

The smooth surface of plastic reduces the possibility of contamination and incrustation, even in extreme applications. This enables the use of SEC Immersion Style Non-Metallic Heat Exchangers where metal exchangers would fail or require excessive maintenance. Produced by a patented process of continuous tube extrusion and manifold injection over-molding, SEC heat exchangers have tight connections between the exchanger tubes and the manifolds. There are no mechanical joints. The heat exchangers are constructed of modular elements which enable the heat exchanger to be adapted to suit a particular vessel geometry. In addition, large heat transfer surfaces are contained in a relatively small volume.

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



SEC Heat Exchangers

2546 Iona Road
Belfast, Prince Edward Island
Canada C0A 1A0
North America: 1.800.335.6650
International: 1.902.659.2424
Fax: 1.902.659.2800
Email: info@secheatexchangers.com
www.heatexchangers.ca
www.brazedplate.com
www.secplateandframe.com
www.secshellandtube.com

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