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### E-Mail Us

**ONTARIO**  
Process and Automation  
&  
**ISA Combined Show 2007**

Mississauga Convention Centre  
May 9, 2007  
10:00 AM - 5:00 PM  
75 Derry Rd.  
Mississauga, ON

**Join Us For a  
FREE BREAKFAST**  
You must pre-register for breakfast.  
See inside for details.

Just by attending you can win a beautifully framed and autographed picture of 1967 Stanley Cup Champion Vancouver Canucks.

**Free Seminars**  
A full technical program has been scheduled for the entire day. In program details visit [www.cpecn.com](http://www.cpecn.com) or click on 2007 Process & Automation Show.

**Free admission**  
Register Online @ [www.cpecn.com](http://www.cpecn.com)

### Introduction:

This is latest monthly e-mailed newsletter from [Delta T Heat Exchangers](#).

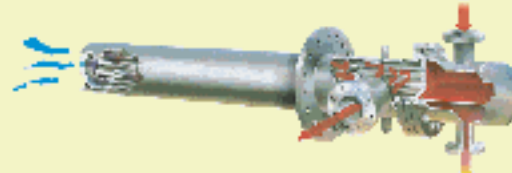
Our focus with these e-mails will be articles to help in the design, selection, application, operation and maintenance of heat exchangers and our intent is to be quick and concise while providing information that we hope will be practical and informative.



Our intent is for this information to be a service to our clients. If you do not wish to continue receiving this newsletter please [click here](#) and you will be removed from the list.

### Tank Heaters:

Typically Tank Heaters fall into two categories; tubular (which utilizes a fluid inside a tube to heat the tank contents), or electric (typically used in smaller tanks).



Tubular Tank Heaters usually use steam, hot oil, or glycol/water mixtures as the heating medium. They are available in a wide variety of styles which as single units or in multiple banks suit most applications.

The tank size, shape and design as well as the fluid in the tank and heating medium drives the design of the Tank Heater. As with most heat exchanger designs, the intention is to provide a standard design in order to reduce cost and lead-time. However, similar to other heat exchangers, as each application is unique the Tank Heater is often based on a standard design but customized for the specific application.

[Click Here for more information](#)

### Fuel Gas Cleaning Systems:

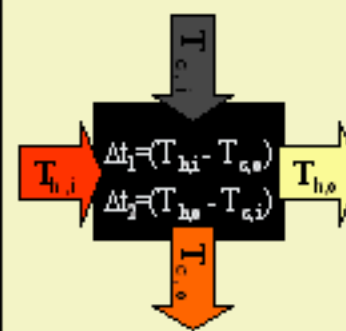
ElectroClean™ Fuel Gas Cleaning System is designed to provide dry, clean gas to any dry low NOX gas turbine. The only other equipment needed is the optional filter/coalescer located on the gas turbine for fine removal of entrained oils and filtration of rust. The system consists of an electric pre-heater, pressure reduction, coalescence, heat exchanger, and an electric super heater in one ASME pressure vessel. It can be placed between any pipeline source of fuel gas and the gas turbine. A single ElectroClean™ Fuel Gas Cleaning System will protect one or several gas turbines.



[Click Here for more information](#)

### Benchmarking Performance:

A common situation we encounter is the need to replace an existing heat exchanger where there is little information known about either the construction or the performance. Frequently heat exchangers were supplied with limited performance and construction information or the heat exchanger manufacturer is no longer in existence so the end user is forced to estimate the size, construction and performance when the unit needs replacing.



Changes in technology or an increase in required performance can render the existing heat exchanger obsolete or drive the demand for replacement. In such cases the replacement heat exchanger will be a different design than the existing unit. If all the construction or performance specifications of the existing heat exchanger are not known (as is often the case), a benchmark for performance needs to be established in order to design a replacement.

Provided with some general information about the existing exchanger and some general process information, a rating of the existing exchanger can often be developed or at least approximated. Using our thermal programs, design background and experience we can often model the existing heat exchanger to establish a performance benchmark from which to base a replacement design.

**Process & Automation Show:** Visit Delta T Heat Exchangers at the Canadian Process and Automation Show on May 9, 2007 from 10:00 am to 5:00 pm at the Mississauga Convention Centre. For free admission, please [contact us](#) or register online at [www.cpecn.com](http://www.cpecn.com).