

TURBULATORS

Manufactured by Fuel Efficiency, LLC

Improve Process Heater Efficiency

Typical Industries:

Oil & Gas Processing
Petrochemical Processing

Typical Applications:

Line Heaters
Dehydration Units
Water Bath Heaters
Reboilers
Heater Treater
Tube Type Heat Exchangers
Immersion/Vat Heaters



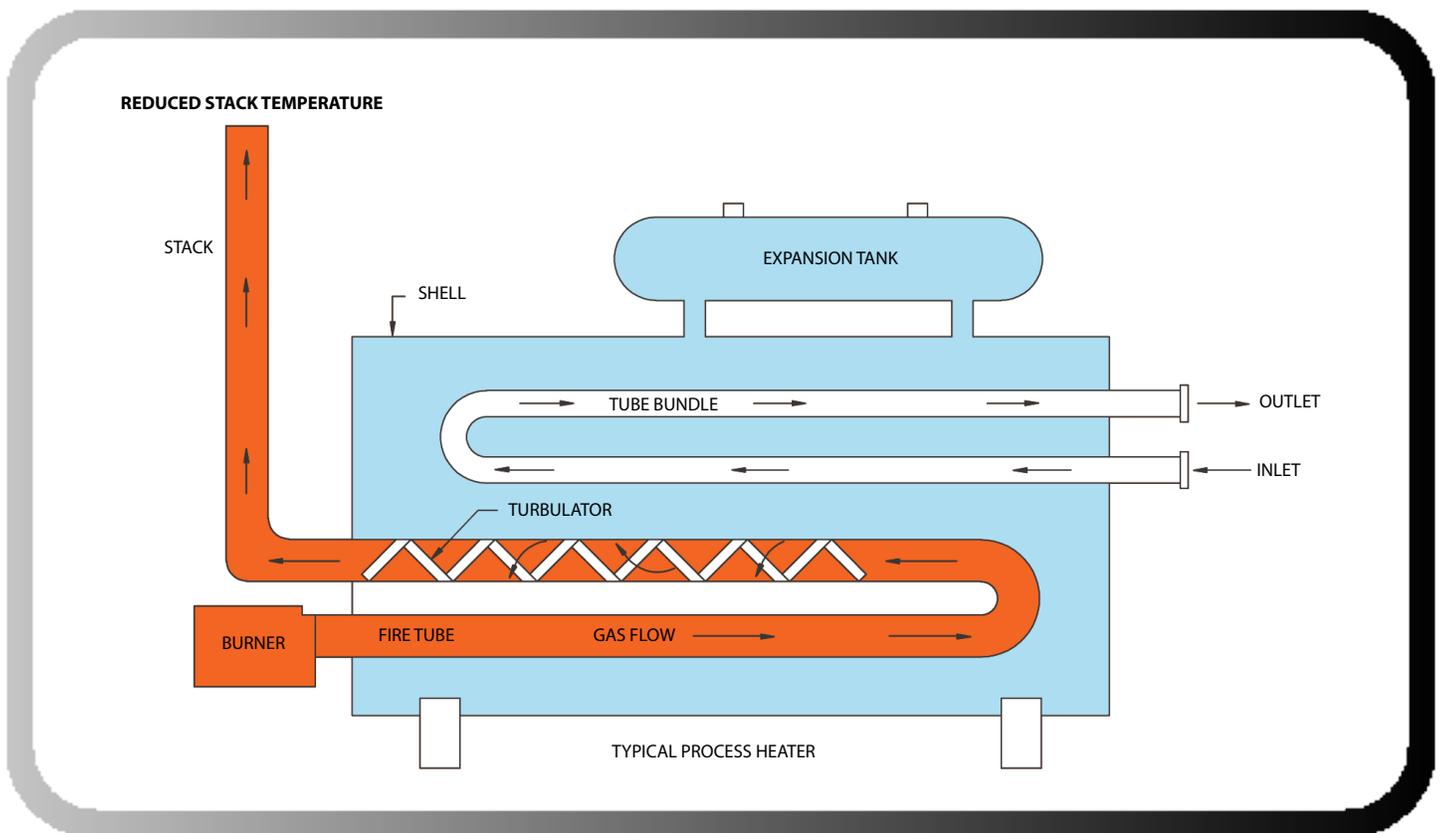
Get Return On Investment with Savings the First Year: The entire installed cost is so reasonable that turbulators generally pay for themselves in fuel savings in the first season. In fact, with the Fuel Efficiency Turbulator you could reduce fuel costs by as much as 3 - 10%, possibly more.

Reduce Maintenance - Less Soot: Because our Fuel Efficiency Turbulators improve combustion by causing fuel to burn more completely, less soot forms.

Extend Equipment Life: Fuel Efficiency Turbulators also help heating equipment last longer by eliminating hot and cool spots that cause thermal stress.

Install Quickly And Easily: Fuel Efficiency Turbulators are not "off-the-shelf" or "one-size-fits-all" solutions. They are custom-made for every application. In many cases they will ship complete as one unit, ready to install. For larger, longer units they may ship in 2 or 3 sections which are easily connected to one another at the time of installation.

The turbulator shown here is representative of the types used in U-Tube process heaters. A turbulator is installed in the "return-side" tube(s) only. Depending upon the specific operating conditions the materials used may be carbon steel, aluminized steel or stainless steel.



Put Lost Heat to Work & Reduce Operating Costs

Without Turbulators: As combustion gases give off their heat they cool, contract and slide along with a "straight line" or laminar flow pattern. The hotter gases stay in the tube center, surrounded and insulated by the cooler gases. Heat lost up the stack creates excessive stack-gas temperature.

With Turbulators: Turbulators break-up the laminar flow and cause the hot gases to scrub against tube walls, increasing tube-side heat transfer efficiency. Turbulators installed in the tubes cause a more even heat distribution. Lower stack temperatures demonstrate improved heater efficiency.

For more information on turbulators and other fuel savings products, write or call Fuel Efficiency today.



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