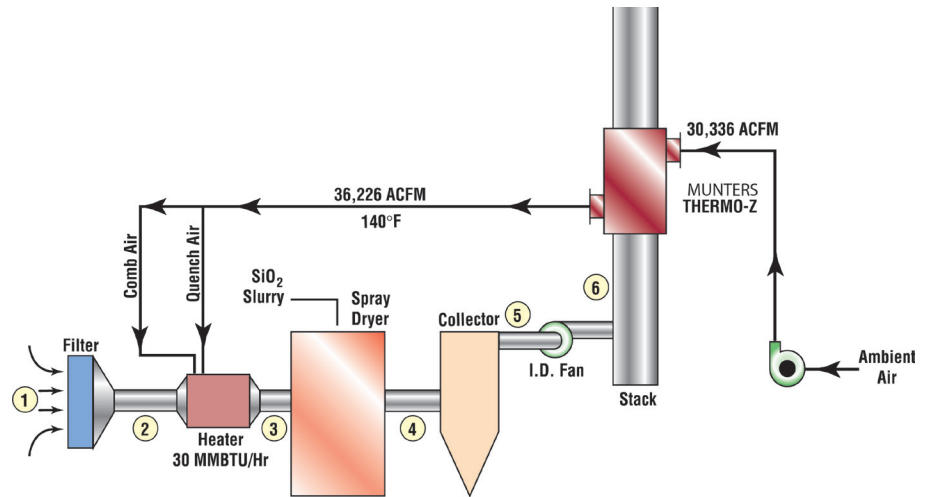




Thermo-Z[®]
reduces spray
drying process
fuel costs

Custom spray drying solution



**Flow Diagram
Spray Dryer Application**

Munters designed an energy-efficient custom solution for an engineered minerals and specialty chemicals producer. The customer needed a unit that could efficiently recover heat from their spray drying process and then utilize the recovered heat as preheated combustion air for their spray drying process. Munters used a customized Thermo-Z industrial heat exchanger to address the request.

Munters energy recovery solution

Stack-exhaust losses can consume a significant portion of the total fuel required to run a process. In this case, Munters saw an opportunity to harness energy recovery and air-flow technology to lower energy consumption and costs, reduce emissions and increase productivity.

Due to the high temperatures and corrosive environment, Munters recommended a Thermo-Z plate-style heat exchanger. The Thermo-Z is constructed from heavy-gauge stainless steel to withstand high temperatures and corrosion. At high temperatures, Thermo-Z integral expansion joints allow the unit to expand without causing excessive stress. Thermo-Z is available with multiple flow patterns, which made it a good fit for this project.

Fuel savings from the Thermo-Z installation reduced this efficient heat exchanger's pay off to one short year. This industrial success story is one of many that features the Munters Thermo-Z heat exchanger.

Case study

- Custom spray drying solution for specialty chemicals producer

Advantages:

Efficient heat recovery needed:

- Integral access doors for inspection and cleaning
- Heavy gauge construction of matrix for abrasion resistance
- Recovered waste heat from the stack preheats the combustion air for the process heater

Would you like to find out if Munters has a solution for your company too? If so, please visit our website, www.munters.com

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