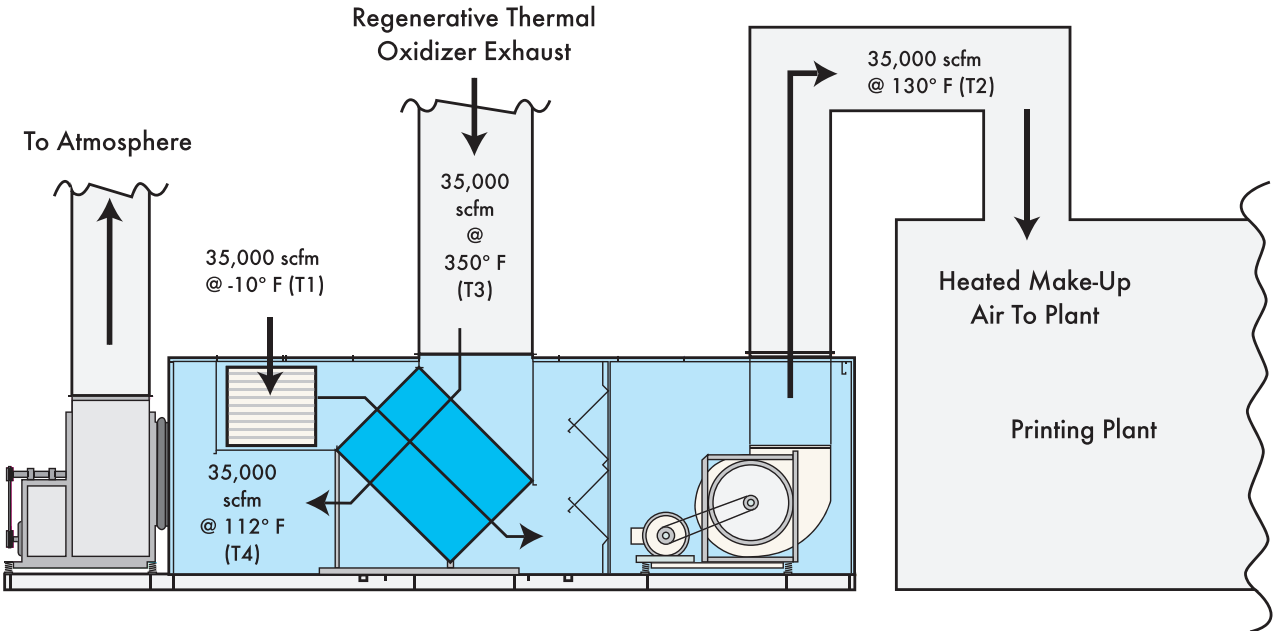
CASE STUDY

Munters

Reusing generated heat saves printing plant

Printing plant, USA



Solvents used in printing press ink had generated harmful fumes at a large midwestern printing plant in the US. Two regenerative thermal oxidizers, with a combined 70,000 CFM exhaust, incinerated the VOCs. Instead of letting all that heat go to waste up a stack, the company wisely used it to heat its facility.

The Munters solution

Two Munters Thermo-Z® air-to-air heat exchangers, one on each incinerator, capture the exhaust heat and use it to heat outside air for plant makeup air in winter. Each heat exchanger is part of a complete packaged heat recovery system that also includes supply and exhaust fans, dampers, and filters.

In optimal conditions, the systems heat outdoor air from -10°F to 130°F using 250°F exhaust from one incinerator and 350°F exhaust from the other. Combined, they can transfer over 10,400,000 BTUs per hour.

The temperature of the space is controlled to maintain a consistent 130°F by modulating the hot gas flow through the heat exchanger. Munters air-to-air heat recovery system has successfully helped the printing plant recycle energy and save on costs.

Case study

AirTech Printing Plant reuses heat to save big.

Advantages:

- Provides free heat, eliminating building heat costs
- $250,000 annual energy savings
- Eliminates negative pressure problems
- ROI in one year

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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