BROCHURE

Munters

High-temperature energy recovery products

High-efficiency air-to-air energy recovery solutions

For customers seeking to recover energy in high-temperature applications, Munters offers a complete line of high-efficiency air-to-air energy recovery solutions.

Thermo Series

High-temperature heat exchangers

Thermo-Z®

High-temperature air-to-air heat exchanger

Thermo-Z is a welded plate heat exchanger, custom designed to recover energy from processes up to 1400°F. Energy can be recovered and returned as process make-up air, used to preheat combustion air, or used for plant or office heating. Factory tested for .01% max leakage at standard 20" W.C. differential pressure rating. Customized for each application with variable plate sizes and spacings, flexible materials of construction, and seven (7) flow patterns to simplify ducting. Standard options include 4" thermal insulation and integral expansion compensation.

Thermo-T®

High-temperature tubular heat exchanger

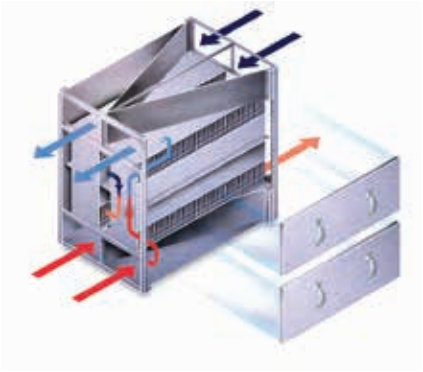
Thermo-T is a welded tubular heat exchanger, custom designed to recover energy from processes up to 1600°F. Energy can be recovered and returned as process make-up air, used to preheat combustion air, or used for plant or office heating. Factory tested for .01% max leakage at standard 20" W.C. differential pressure rating. Customized for each application with variable tube sizes and spacings, flexible materials of construction, and three (3) flow patterns to simplify ducting. Standard options include 4" thermal insulation and integral expansion compensation. The Thermo-T can be integrated with a Thermo-Z unit to provide the ultimate in effectiveness, reliability, and value.

Z-DUCT®

Plate (foil) type air-to-air heat exchangers

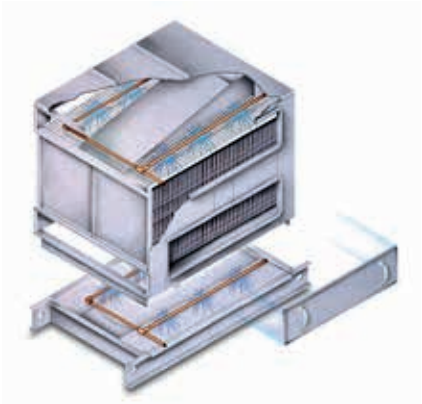
Z-DUCT Series 74

This series features the basic building block found in all Z-Duct heat recovery systems. These economical units include built-in drains and removable cleanout panels. All units, which can be field installed in multiples to meet specific CFM requirements, have a nominal flow rate of 1000 CFM and can be fabricated from various materials to enable operation to 400°F.



Z-DUCT Series 75

This series features a modular designed counterflow air-to-air energy recovery unit with complete separation between air streams. Removable cleanout panels provide easy access to the heat transfer medium for inspection and cleaning. An optional automatic water-wash system results in years of maintenance-free operation. Available with nominal flow ratings from 4,000 to 10,000 CFM and can be fabricated from various materials to enable operation to 400°F.

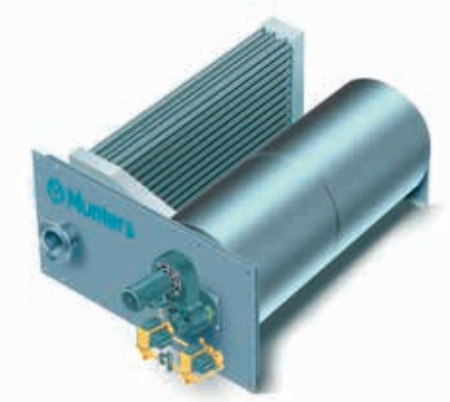


Z-DUCT Series 85

This series features a modular designed counterflow air-to-air energy recovery unit which is designed to recover energy from a process with particulate laden exhaust. Standard features include removable cleanout panels for easy access to the heat transfer medium for inspection and cleaning and a fully welded sloped drain pan with a 3" drain connection. The standard options for double-wall insulated construction and an industrial water-wash system result in years of maintenance-free operation. Available with nominal flow ratings from 4,000 to 30,000 CFM and can be fabricated from various materials to enable operation to 400°F.

VariMax®

Indirect-fired gas heaters



VariMax® OTH

Once-through heater

The VariMax OTH is a high-efficiency, industrial, indirect-fired gas heater used to heat process airstreams without contaminating the air with the products of combustion. The OTH is particularly useful for recirculating ovens and industrial processes with moderate temperature rises. The counterflow configuration, four-pass design and optimized secondary tubular heat exchanger result in efficiencies up to 85%. The heater uses a Maxon® industrial gas burner for clean, reliable combustion. Standard OTH heat exchangers are constructed of heavy-duty stainless steel for strength, durability, and corrosion resistance. Units are available with FM or IRI certified gas trains and complete heater controls. Munters can also provide complete heating packages, including filters, dampers, fans, and duct sections or separate housings. The OTH is available in six (6) pre-designed sizes which offer 150°F max temperature rises and exit temperatures up to 600°F.

VariMax® IFRG

Indirect-fired recirculating gas heater

The VariMax IFRG is an ultra-high-efficiency, industrial, indirect-fired gas heater used to heat process airstreams without contaminating the air with the products of combustion. The IFRG is particularly useful for spray dryers and industrial processes with high temperature rises. The counterflow heat exchanger with hot side recirculation results in efficiencies of 90%+. The energy savings results in a short payback with savings year after year. The heater uses a Maxon® industrial gas burner for clean, reliable combustion. Standard IFRG features include stainless steel heat exchanger, FM or IRI certified gas trains, and complete heater controls. The IFRG is custom designed for each application with 1000°F max temperature rises and exit temperatures up to 1200°F. To further increase efficiency, an optional secondary heat exchanger can be added to capture the energy from the exhaust air and use that energy to preheat the incoming combustion air.

Munters Service - With you all the way

With Munters as your service partner, your air treatment equipment will receive the attention, care and maintenance needed to reach its maximum life expectancy. Throughout each phase of the equipment life cycle, the knowledge and expertise of Munters Service will insure optimal operation, minimum energy consumption, and extension of the life of your investment.

Our range of services available through our global network of Munters Service Engineers and Technicians include:

- Comprehensive installation and start-up services
- PrimaCaire™ (extended warranty) agreement
- Flexible ServiceCaire™ maintenance agreements to fit your specific needs
- Performance checks and optimization
- Numerous upgrade options for substantial energy savings and improved performance

Find your nearest Munters office at **www.munters.com**

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