

Case study: AIR TREATMENT
Creamery

BENEFITS

- Minimum of 90% Thermal System Efficiency
- Burner Turn-Down up to 40:1
- Provides Constant Temperature at Variable Airflows
- Nominal Temperature Rise to 1,000°F; Discharge to 1,200°F

Munters high-temperature industrial equipment provides custom solution for creamery

A creamery located in the Midwest required a replacement heater for one of their spray drying systems that processes powdered milk. In addition, it was required that the equipment be manufactured in

accordance with USDA guidelines.

Their existing heater was no longer effective causing the creamery to encounter nearly 20% downtime. Also, it was installed such that it traversed two stories of the

building. The customer wanted to locate the heater on a single story with the same footprint as the previous equipment. Consequently, the installation site had very tight dimensional constraints.

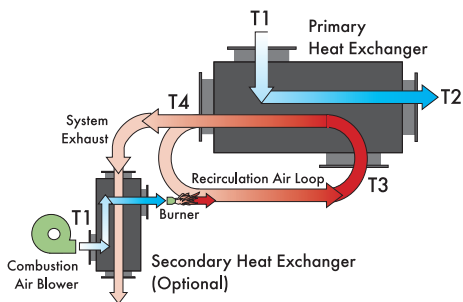
The creamery chose a custom-manufactured Munters VariMax™ IFRG heater to replace their inefficient and oversized heater. In order to fit the heater in the allotted space on a single floor, Munters' engineers worked with the OEM from the quote stage through the engineering phase to avoid existing piping, duct work, columns, walls, etc. A custom exhaust interface supplied by Munters enabled the customer to utilize their existing exhaust stack from the previous heater, ensuring a smooth installation.

The design condition at the installation site was extremely low, -20°F. The VariMax™ IFRG provided 8MMBH to the process, heating 17,000 SCFM from -20°F to 415°F. The VariMax™ IFRG was also built in accordance with USDA standards, an important requirement of the customer. With the VariMax™ IFRG, the creamery is experiencing less downtime and greater profitability.

Munters VariMax™ IFRG

The highly efficient VariMax™ IFRG heater combines Munters heat exchanger design with indirect heating technologies to deliver heated, contaminated-free process air while reducing operating costs.

Recirculation of the combustion gases allows the heater to attain an efficiency of 90%, 1,000°F (555°C) temperature rise, 1,200°F (649°C) discharge temperature, and a 40:1 turndown. The rugged, heavy-duty construction ensures a reliable, long-lasting heat source for years to come.



Australia Phone +61 2 8843 1580, serviceair@munters.com.au Austria Phone +43 1 6164298-0, service.dh@munters.at Belgium & Luxembourg Phone +32 2 240 6868, service.dh@muntersnv.be Brazil Phone +55 41 3317 5050, munters@com.br Canada Phone +1 905 858 5894, dhinfo@munters.com China Phone +86 10 8041 8000, serviceair@munters.cn Czech Republic Phone +420 544 211 434, servicecz@munters.de Denmark Phone +45 4495 3355, service.dh@munters.dk Finland Phone +358 40 186 3074, service.dh@munters.fi France Phone +33 1 3411 5757, service.dh@munters.fr Germany Phone +49 40 87 96 90-0, service.dh@munters.de India Phone +91 20 6681 8900, serviceair@munters.in Italy Phone +39 0183 521 377, service.dh@munters.it Japan Phone +91 3 5970 0021, serviceair@munters.jp Korea +82 2 761 8701, serviceair@munters.co.kr Mexico Phone +52 722 270 4029, servicedhmx@munters.com Netherlands Phone +31 172 43 32 31, service@munters.nl Poland Phone +48 58 305 35 17, service.dh@munters.pl Singapore Phone +65 6744 6828, serviceair@munters.com.sg South Africa Phone +27 11 971 9700, info@munters.co.za Spain & Portugal Phone +34 91 640 09 02, service.dh@munters.es Sweden & Norway Phone +46 8 626 6300, service.dh@munters.se Switzerland Phone +41 52 3438886, service.dh@munters.ch Thailand Phone +66 2 6422 6703, serviceair@munters.com.sg Turkey Phone +90 216 548 1444, serviceair@munters.com.tr UAE +971 4881 3026, middle.east@munters.com United Kingdom & Ireland Phone +44 1480 432243, service.dh@munters.co.uk USA Phone +1 978 241 1100, dhservice@munters.com Vietnam Phone +84 8 3825 6838, vietnam@muntersasia.com



Munters Corporation
Tel: (800) 843-5360 E-mail: dhinfo@munters.com
www.munters.com