

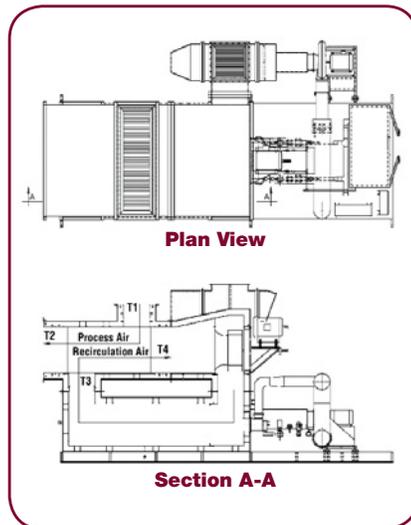
High volume indirect gas-fired heater succeeds in Quebec

In the Quebec province of Canada, a local spray dryer manufacturer was in need of an indirect gas-fired heater for one of their systems that process powdered cheese. This project required 42,000 scfm of outdoor air to be heated to 400°F, despite an outdoor air temperature of -40°F. To provide these conditions, the heater must process 20 million BTU/hr. In addition, it had to be 90%+ efficient with high precision controls that met both CSA requirements and food grade construction standards. A heater suitable for this application would have to meet the required capacity with both efficiency and precision and still adhere to the special requirements.

A Munters VariMax™ IFRG natural gas-fired indirect heater with a Thermo-Z™ plate heat exchanger turned out to be that suitable heater. In order to adhere to food grade construction standards, the entire unit, including the baseframe, exterior casing, and exterior supports were built out of stainless steel with full seam welding. The control panels and gas train box were also built out of stainless steel and wash down rated.

In order to provide the required BTUs and precision for firing the system, a Maxon Ovenpak burner system with dual burners and Maxon's Smartlink control system were used, which allowed for high precision control, repeatability, and complete tuning ability for the air to fuel mixture ratio.

During the manufacturing of the VariMax™ system, the customer made periodic inspections, and conducted shop and field performance tests to ensure compliance with CSA standards. Successful tests and inspections left the customer confident in the quality and reliability of the final product. Both experience and demonstrated expertise with indirect gas-heating allow customers to continue putting their trust in Munters for their heating needs.



CASE STUDY: Quebec, Canada



BENEFITS

- Delivers 20 million BTU/hr NET with 93% System Efficiency
- +/- 1F high precision temperature control
- CSA Approved controls and Gas Train
- Food grade, full seam welded stainless steel construction

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