

ECLIPSE BURNERS

FOR DAIRY APPLICATIONS

The industry's best direct fired burners for dairy and other food grade applications.

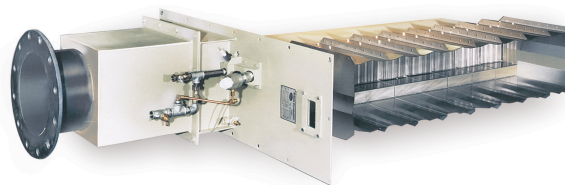
With Eclipse, you can now use efficient direct-fired air heating to safely process dairy, food and other products—with no performance penalty—while holding the line on emissions regardless of your location...anywhere in the world.

Our ultra low emission technology delivers clean combustion and excellent heat distribution. Each burner is engineered to meet your specific production and installation requirements. Consider the many environmentally-responsible and user-friendly advantages of Eclipse direct fired burners before investing in your next direct air heating burner or system.



Winnox

Winnox burners are ideal for emission sensitive air heating and oven applications. The patented nozzle design allows for an intense mixing of air and fuel, resulting in extremely low emissions. Winnox delivers ultra-low NO_x, with less than 20 ppm in most applications and virtually no CO emissions. The short flame is completely contained within the firing tube due to the intense swirl generated by the nozzle. Winnox offers simple, accurate burner control thanks to the integral butterfly valve and ratio-regulator design.



Minnox

The patented Minnox burner design utilizes a premixed gas/air mixture with excess air. The result is a cooler flame (2200°F; 1200°C) which produces an extremely low NO_x discharge. An internally recirculating flame geometry acts to significantly reduce CO emissions. Minnox allows you to efficiently apply direct heat to the product with no performance penalty. Product discoloration or taste contamination often associated with traditional direct heating systems are a thing of the past. The patented Eclipse Minnox gas burner system guarantees emissions at less than 5 ppm NO_x and less than 30 ppm CO @ 3% O₂. Minnox exceeds all state, regional, national and international emission standards for NO_x and CO.

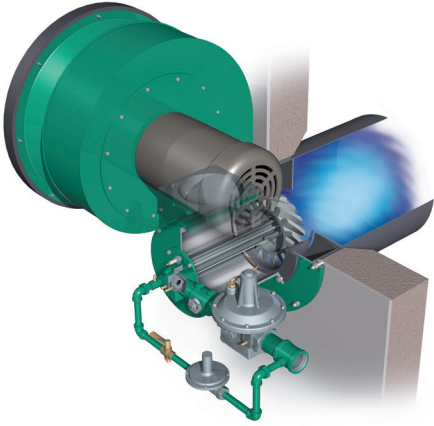


Linnox

Linnox is the perfect choice for industrial drying processes where good heat distribution, temperature uniformity and ultra low levels of NO_x and CO are required. It is a modular, line style burner designed for direct fired air heating. Linnox uses premixing and is typically supplied with a mixer mounted to a side-plate for insertion into a process air duct. The emissions in the undiluted flue gases are less than 15 ppm NO_x at nominal input and less than 100 ppm CO, corrected to 3% oxygen and firing on natural gas.

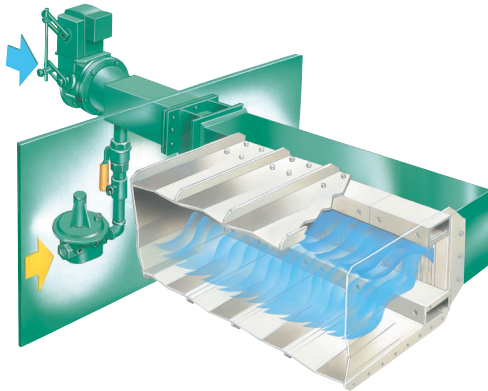
Eclipse Burners for Dairy Applications

High efficiency direct fired heating with exceptionally low emissions.



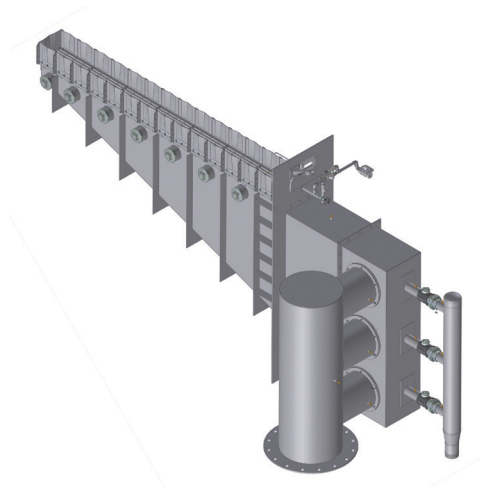
Winnox Direct Fired Burner

- Less than 20 ppm NOx emissions.
- Virtually no CO emissions.
- Patented nozzle design.
- Short flame is completely contained within the firing tube.
- See Eclipse Bulletin 111C for more information.



Minnox Direct Fired Burner

- Minnox exceeds all state, regional, national and international emission standards for NOx and CO.
- Eliminates product contamination and discoloration.
- Patented, international award winning burner design.
- See Eclipse Bulletin 158C for more information.



Linnox Direct Fired Burner

- Ultra low NOx and CO emissions.
- Modular design provides flexibility in system design options.
- Flame is protected from the process air for optimum combustion.
- (LC) low capacity and (HC) high capacity versions are available.
- See Eclipse Bulletin 159C for more information.