



EXOTHERMICS INDIRECT AIR HEATERS

Clean Process Heat with Lower Emissions



Demand for Clean and Efficient Heating

Process air heating is of vital importance to many industrial operations. When choosing an air heating system—whether in a direct-fired or indirect-fired configuration—end users are faced with increasing energy efficiency, conserving natural energy sources, and reducing potentially harmful emissions resulting from heating operations.



Benefits to Industrial Organizations

- *Advanced, proprietary technology*
- *Separates products of combustion from process air*
- *Low NOx in external exhaust stream*
- *High-temperature capability*
- *Reliable and proven design*
- *Robust, long-lasting construction*
- *Fully customizable configurations*
- *Easy installation and maintenance*
- *Low total cost of ownership*
- *Comprehensive service and support.*

Crucial Function of Air Heaters

Selecting the right indirect-fired air heater enables industrial facilities to produce contamination-free hot air while maximizing heat recovery and minimizing emissions.

Rely on Honeywell Thermal Solutions

The Honeywell Thermal Solutions family of products includes Honeywell Combustion Safety, Honeywell Combustion Service, Eclipse, Exothermics, Hauck, Kromschroder, and Maxon. We offer a comprehensive range of burners, heat exchangers, shut-off and control valves, air and fuel supply components, and other equipment for industrial heating processes that deliver safe, reliable, efficient, and clean heat.

Honeywell Thermal Solutions' best-in-class Exothermics line includes both recirculating and single pass indirect fired air heaters to cover a wide variety of industrial applications. This equipment is a recognized solution for producing a large volume of clean, hot air, while providing increased energy efficiency, high reliability, and the lowest overall cost-of-ownership.

Honeywell Thermal Solutions customers achieve significant operational enhancements because we provide extensive application knowledge and sizing expertise to help optimize their process through heat recovery.



Challenging Environments, Innovative Solutions

The Exothermics line of indirect air heaters are used with spray dryers, fluid bed dryers, rotary dryers, kilns, chemical dryers, flash dryers, ovens, and for many other industrial heating and drying applications in a wide range of industries:

- Agri-business
- Building Materials
- Chemicals
- Food
- Glass
- HVAC
- Pharmaceutical
- Rubber and Plastic
- Automotive Finishing
- General Paint Finishing

Strict Requirements, Proven Technology

Finding the right heating system for use in environments where contamination of the downstream process cannot be tolerated is a critical concern. As such, it's important to partner with a supplier that truly understands your application demands, and has proven products to meet your individual needs.

Honeywell Thermal Solutions has decades of experience in the combustion market. We provide a choice of indirect air heater models employing industry-leading technology.



Recirculating High Temperature (RHT) Indirect-Fired Process Air Heater:



- Designed to heat recirculating ovens and dryers where the products of combustion must be isolated from the process air stream
- Features an industry-proven burner, firing chamber and exhaust tube assembly as a single unit for easy installation and optimum performance
- Completely packaged with front access for easy maintenance
- Excellent for use in industrial space heating systems
- Multiple burner choices to meet a wide variety of applications.



ER Indirect Air Heater:

- Compact system mounted on a painted carbon steel skid
- Intended for heating and drying applications that require contaminant-free process air, such as dairy spray dryers and food manufacturing
- Incorporates a sinusoidal heat exchanger to transfer heat from the combustion chamber to the clean process air side of the unit
- Engineered to deliver maximum fuel efficiency, without the need for a secondary heat exchanger
- Delivers the lowest emissions of any indirect air heater available
- Fully configurable with several different low NOx burners and three air-flow patterns available.

Honeywell Applications for any Industry

Product		
	ER Heater	RHT
		
Product Type	Indirect Air Heater	Recirculating Indirect Air Heater
Category	Indirect Sinusoidal HEx w/Burner	Indirect Tubular w/Burner, Recirculating
Description	All-in-one process air heating system	Recirculating High temperature indirect air heating unit
Key Markets & Applications	Dairy, Food, Pharma, Building Materials	Automotive Paint Finishing, General Finishing, Chem/Pharma/Plastics, Food & Beverage
Key Differentiators	Low emissions, 90% Efficiency, Choice of Configurations	Fully welded, designed to allow thermal expansion, supplied with packaged burner, accessory options
Choose When	Indirect, low emissions air heating is required	Indirect Air Heating is required
Platform	Sinusoidal Plate HEx	Tubular Heat Exchanger
Burner Choices	Linnox, Minnox, Winnox, Crossfire	RadioMatic, RatioAir, ThermAir, OvenPak LE

Support When, and Where, You Need It

Honeywell Thermal Solutions' commitment to combustion system customers extends into your facilities through our Global Service Team of over 100 factory trained technicians, engineers, and support staff. Our technicians adhere to a strict SAFE working policy in the many industries we serve.

Available support solutions range from emergency assistance and ongoing combustion system service, to startup and commissioning, preventative maintenance, audits and testing, and workshops and training.

How Honeywell Can Help You

At Honeywell, we're dedicated to improving your industrial operation by optimizing the design and performance of its combustion systems. We know that the best performance requires calculation, planning and execution—starting with proper hardware selection, followed by installation and tuning—resulting in efficient operation.

Honeywell Thermal Solutions delivers the most comprehensive line of industrial and commercial thermal solutions on the market. Our extensive product portfolio spans from burners and controls, to valves and complete combustion solutions.

For more information

The Honeywell Thermal Solutions family of products includes Honeywell Combustion Safety, Honeywell Combustion Service, Eclipse, Exothermics, Hauck, Kromschröder and Maxon. To learn more about our products, visit ThermalSolutions.honeywell.com or contact your Honeywell Sales Engineer.

Honeywell Process Solutions

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