

SAINT-GOBAIN PERFORMANCE CERAMICS & REFRACTORIES

HEATCOR™

ADVANCED SILICON CARBIDE RECUPERATOR



**MORE TWIST.
MORE SAVINGS.**

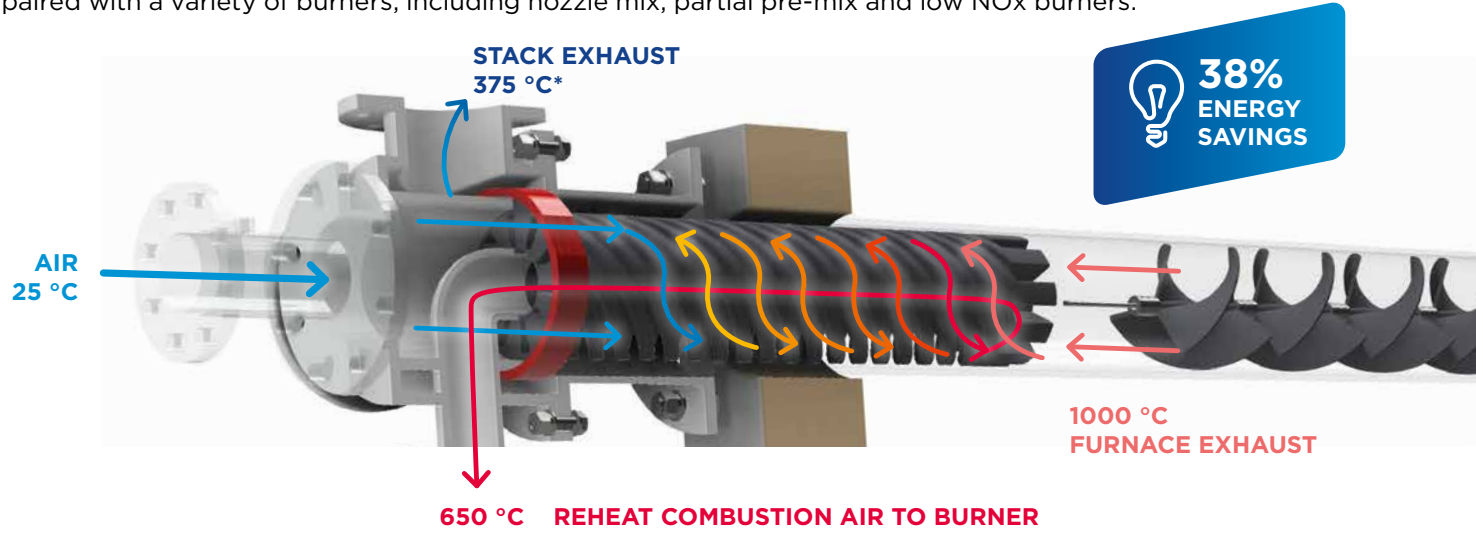
Advanced ceramic design
outperforms metal recuperators,
delivering higher efficiency
with every twist




SAINT-GOBAIN

VERSATILE HIGH-EFFICIENCY RECUPERATORS

Suitable for use with exhaust streams up to 2,450 °F (1,350 °C), HeatCor™ recuperators are high-efficiency heat exchangers designed to fit into the exhaust leg of straight, U, or, W-type radiant tubes. HeatCor™ can be paired with a variety of burners, including nozzle mix, partial pre-mix and low NOx burners.



*typical HeatCor™ preheat performance

FEATURES & BENEFITS

	3x higher rates of heat transfer		Excellent thermal shock resistance
	Low pressure drop		Custom designs for optimizing application variability
	Working temperature up to 1,350 °C		2x longer service life

PROPERTIES OVERVIEW

Saint-Gobain’s application engineers are available to assist you with your technical project in designing cost-effective high-performing products that will meet your needs now and in the future.



 MAX. APPLICATION TEMPERATURE 2,460°F (1,350°C)	 THIN WALL DESIGN 40 W/mK at 1,000 °C	 THERMAL SHOCK RESISTANCE EXCELLENT
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HEATCOR™ STANDARD MODELS



Capacity (MBTU/hr)	200	350	500	650
Capacity (kW)	60	100	150	200
Diameter (mm)	140	165	180	190

Saint-Gobain also offers custom HeatCor™ recuperators for maximum energy savings with lowest pressure drop in demanding applications. Inquire for details.

TYPICAL APPLICATIONS

-  GALVANIZING
-  STEEL HEAT TREATMENT
-  ALUMINIUM ANNEALING
-  COPPER ANNEALING
-  ENAMELING
-  STEEL ANNEALING

and other indirect fire applications



RADIANT TUBE COMPATIBILITY

Straight U, W, and Trident. Fuel types natural gas, coke oven and hydrogen.

REDUCE ENERGY USE AND CARBON EMISSIONS

HeatCor™ is part of our Total Burner Solutions, delivering retrofit aftermarket energy savings by maximizing preheated air temperatures in combustion systems — with minimal impact on pressure drop or control settings.

Estimate your potential energy savings based on exhaust temperature and the expected preheat air temperature.



	Metal	HEATCOR™		
		Slow Twist ¹	Standard Twist	Fast Twist ²
Exhaust Temperature		Maximized Energy Savings		
648° (1200°)				21%
760° (1400°)	5%			29%
871° (1600°)	13%		26%	33%
982° (1800°)	21%	15%	30%	40%
1093° (2000°)		25%	38%	48%
1204° (2200°)		35%	46%	55%
1315° (2400°)		44%	52%	60%

Example: A furnace exhaust temperature of 1200 °C (2200 °F) has a potential energy savings of 46%. The preheat air temperature will be approx. 540 °C (1,000 °F).



UNLOCK MAXIMUM ENERGY SAVINGS WITH HEATCOR™ — our advanced ceramic design outperforms metal recuperators, delivering higher efficiency with every twist.

¹ Slow twist available for pressure sensitive applications

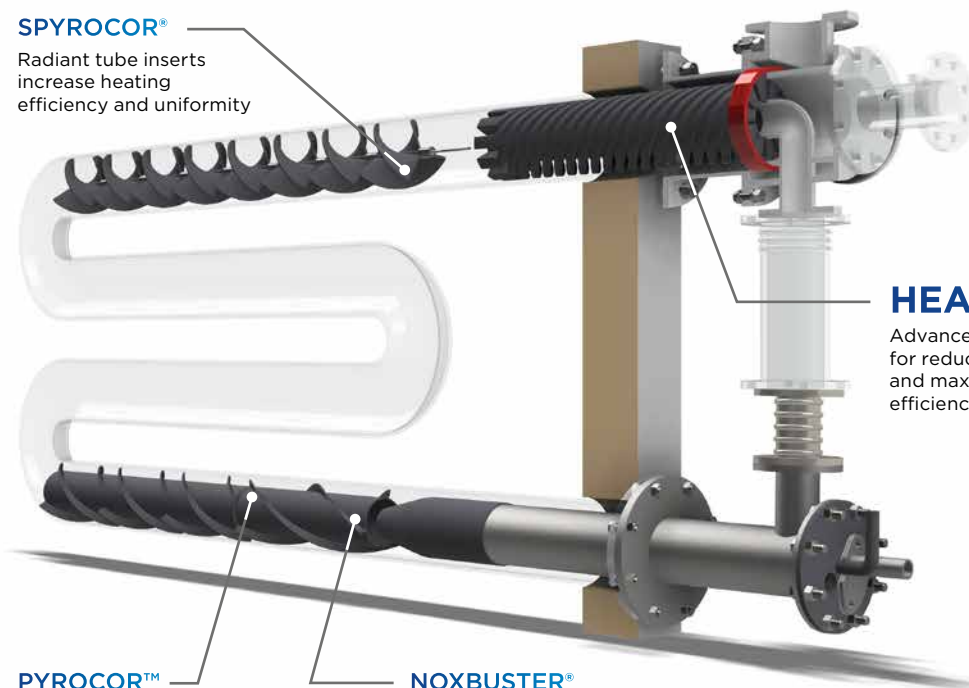
² Fast twist delivers maximum energy savings

SAINT-GOBAIN'S TOTAL BURNER SOLUTIONS

The combined benefits of Saint-Gobain's Total Burner Solutions makes it the most sustainable solution for radiant tube combustion heating.

SPYROCOR®

Radiant tube inserts increase heating efficiency and uniformity



HEATCOR™

Advanced recuperator for reduced emissions and max combustion efficiency

PYROCOR™

Promotes heating uniformity and extends radiant tube life

NOXBUSTER®

Reduces thermal NOx generation

UP TO
30%
ENERGY
SAVINGS

UP TO
30%
LESS CO₂

UP TO
50%
LESS NO_x

UP TO
+10%
PRODUCTION

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