

Recuperated Gas Burner K-RHGBE in Ceramic Design



Direct heating
of industrial
furnaces
15 - 100 kW

Recuperated gas burner NOXMAT®K-RHGBE for **direct** heating of industrial furnaces

Features

- High-velocity burner with integral recuperator for heat recovery
- Combination of recuperator and flame tube in one single component made of SiSiC ceramics (single stage combustion)
- Compact unit in modular construction
- Waste gas fitting, air and gas supply lines are situated on different levels and can be positioned 90° to each other
- Burner control for automatic burner operation
- Direct flame monitoring via ignition electrode (single-electrode ionization monitoring) or UV probe

Advantages for the system user

- Trouble-free direct ignition as well as instant burning stability
- High technical level as regards functional reliability, energy utilization, emission of harmful substances and sound level
- Large variety of possible waste gas, gas and air connections
- Ease of maintenance thanks to simple construction modules
- Smallest thermal wear and high resistance to aggressive chemicals
- 100 % back absorption of flue gases from the firing chamber possible upon direct heating

Technical data

Burner size K-RHGBE		030	050	100**
Heat output	kW	30	50	100
Minimal heat output	kW	15	25	50
Control range		1 : 5	1 : 5	1 : 5
Nominal connected gas pressure	kPa*	5	5	7
Nominal connected air pressure	kPa*	10	10	13
Weight (Base burner)	kg	18	25	29
Max. temperature of recuperator	°C	1300	1300	1300
Nominal diameter gas connection	DN	15	15	20
Nom. diam. combustion air conn.	DN	25	40	40
Nominal diameter cooling air	DN	40	40	40
Insertion depth of burner	mm	standard 535, other on demand		
Fuel gas		Natural gas, liquid gas, special gas on demand		

Subject to technical changes
* 1kPa=10mbar
** available II/2014

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