

Recuperated Gas Burner RHGB in Steel Design



Direct
heating of
industrial furnaces
9 - 250 kW

Recuperated gas burner NOXMAT[®] RHGB

Features

- High-velocity burner with integral recuperator for heat recovery
- Multi-stage combustion
- Separate cooling air connection possible
- 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)

Advantages for the system user

- Trouble-free direct ignition as well as instant burning stability with cold start
- High technical level regarding 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
- 100 % back absorption of flue gases from the firing chamber possible upon direct heating (RHGB 250 : 70%)

Technical data

Burner size RHGB		15	25	40	80	100	160	250
Nominal thermal capacity	kW	15	25	40	80	100	160	250
Minimum thermal capacity	kW	9	13	25	40	50	80	100
Nominal connected gas pressure	kPa	5	5	5	5	7	5	7
Nominal connected air pressure	kPa	10	10	10	12	12	12	13
Weight (basic burner)	kg	22	30	32	48	48	80	80
Maximum recuperator temperature	°C	1150	1150	1150	1150	1150	1150	1150
Nominal diameter gas connection	DN	15	15	15	15	20	20	25
Nominal diameter comb. air conn.	DN	25	25	25	40	40	50	65
Nominal diameter cooling conn.	DN	25	25	25	40	40	50	50
Fuel gas	Natural gas, liquid gas, special gas on demand							

Subject to technical changes.

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