

# Data sheet

K-RHGB-RN *REMAT*



## SERIES K-RHGB-RN *REMAT*

Retrofit recuperative high-velocity burner with ceramic recuperator for the indirect heating of industrial furnaces 13-25 kW



### Specifications & Advantages

- High-velocity burner with integrated ceramic recuperator for efficient heat recovery, for indirect heating
- Especially suitable when modernizing chamber furnaces that are heated with protective gas
- All media connections are suitable for existing systems
- Easy direct ignition at high-fire due to patented ignition system, even at cold start
- Direct flame monitoring to ensure maximum safety in all stages of operation
- Power scope from 13 to 25 kW
- Maximum application temperature at the recuperator up to 1250°C
- Higher energy efficiency due to improved heat recovery compared to existing burners
- Low-emission multi-stage combustion
- Excellent temperature distribution due to high burner velocity
- Easy and economical basic maintenance
- Wear is considerably reduced due to ceramic components

## Technical specifications

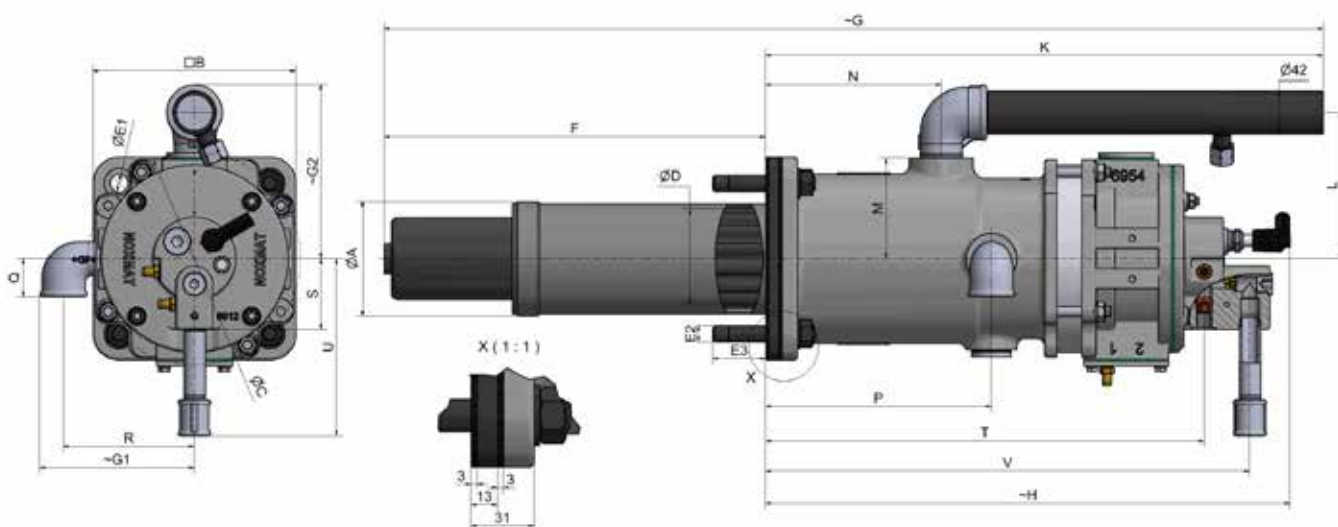
Burner type K-RHGB RN		25
Nominal thermal capacity [1]	kW	25
Nominal thermal capacity [1]	BTU/h	~85000
Minimum thermal capacity [1]	kW	13
Minimum thermal capacity [1]	BTU/h	~44000
Nominal gas connection pressure [2]	mbar	50
Nominal air connection pressure, indirect heating [2]	mbar	80
Maximum recuperator temperature	°C	1250
Nominal diameter of recuperator	mm	98
Nominal diameter gas connection	DN	15
Nominal diameter combustion air connection	DN	25
Nominal diameter cooling air connection	DN	40
Fuel gas [3]		NG, LNG, LPG

Subject to technical modifications. [1] Values deviating from the burner capacity are possible upon request.  
 [2] Pressure fluctuations must not exceed +/- 5%; this also applies to the operation of the burners in groups.  
 [3] Other combustion gases must be coordinated with Noxmat in advance



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## Principal dimensions / Basic burner



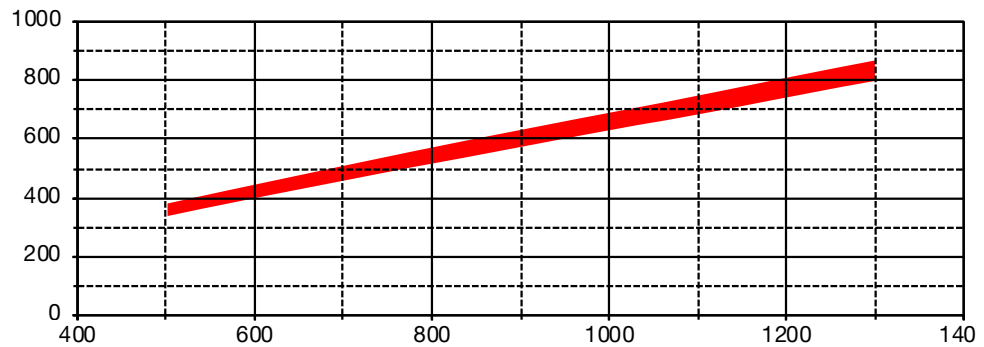
Burner size	Principal dimensions									
	A	B	C	D	E1/E2/E3	F	G	G1	G2	H
	mm									
K-RHGB 25-380 RN	113	200	210	98	18/M16/52	377	930	152	172	520
K-RHGB 25-560 RN	113	200	210	98	18/M16/52	557	1110	152	172	520

Burner size	Connection dimensions														
	Waste gas				Combustion air			Purge air		Combustion gas					
	K	L	M	N	P	Q	R	S	T	U	V				
	mm				mm			inch	mm		inch	mm		inch	
K-RHGB 25-380 RN	550	144	99	173	G1.1/4	223	38	129	G1	70	433	G3/8	175	478	Rp1/2
K-RHGB 25-560 RN	550	144	99	173	G1.1/4	223	38	129	G1	70	433	G3/8	175	478	Rp1/2

# TYPICAL PERFORMANCE CHARACTERISTICS

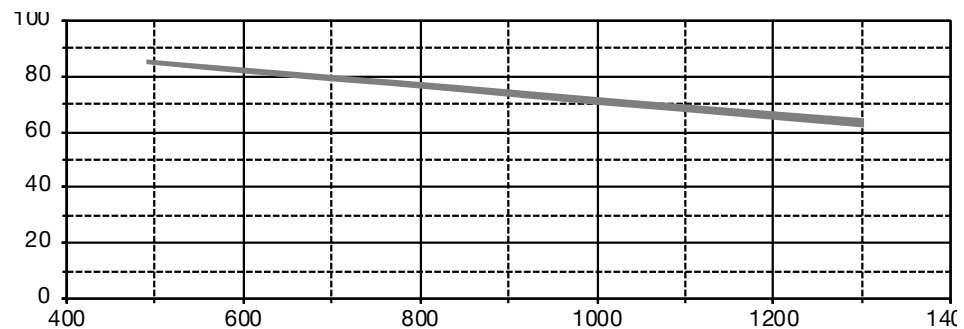
## RK-RHGB-RN *REMAT*

Waste gas temperature at recuperator outlet in °C



Waste gas temperature at recuperator inlet in °C

Firing efficiency rate in %



Waste gas temperature at recuperator inlet in °C

The above illustrations are valid for:

- indirect heating (with radiant tubes)
- continuous operation at nominal burner capacity
- natural gas
- $\lambda = 1,10 \dots 1,20$

The parameters specified shall be regarded as recommended ones. They are dependent on various factors that may vary in practice from the conditions specified above. Parameters for special conditions of use can be obtained from NOXMAT GmbH on request.

# NOXMAT

combustion technology

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