

RS/E FGR – DB SE FGR Series

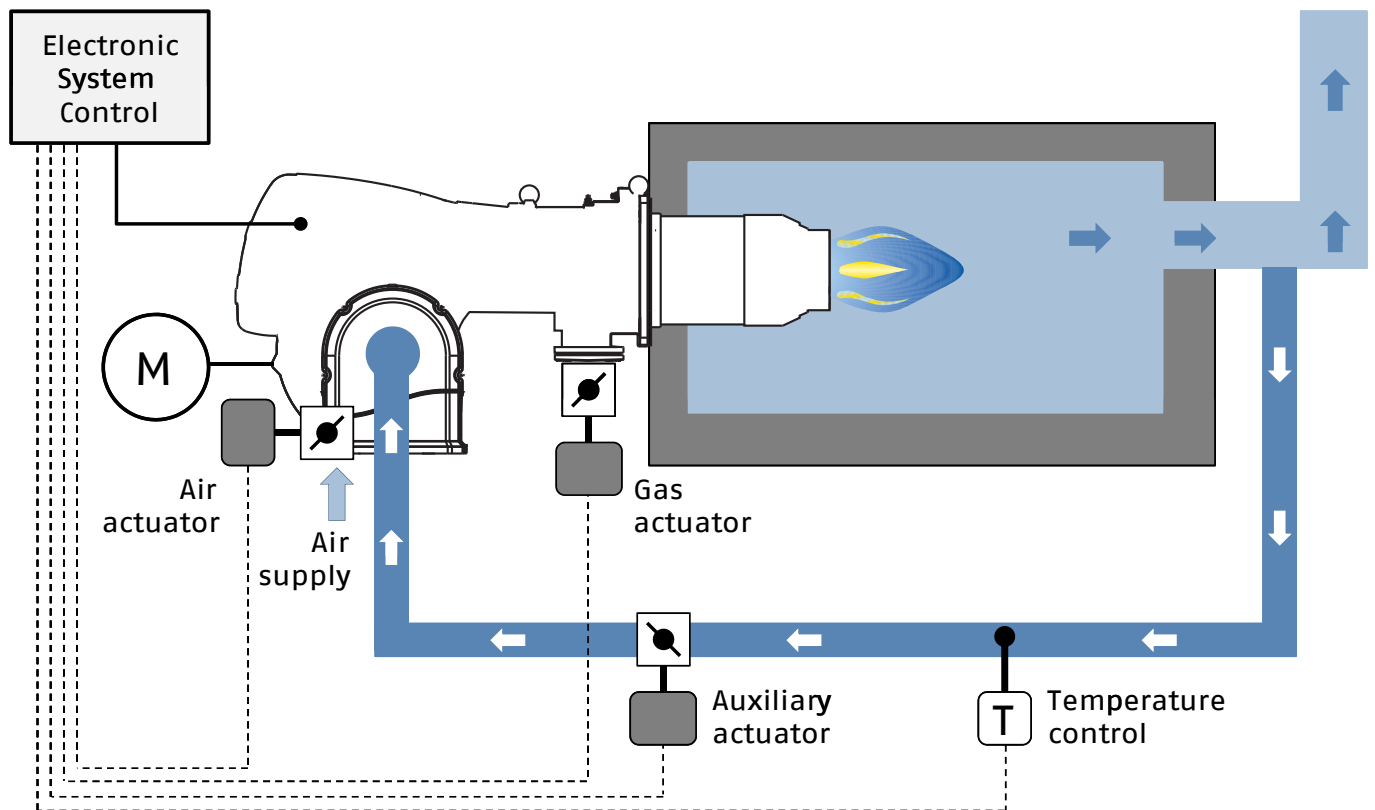
Monoblock and Dual Block Gas FGR Burners
Ultra Low NOx Gas Burners – NOx < 30 mg/kWh

Product Overview

FGR Technology

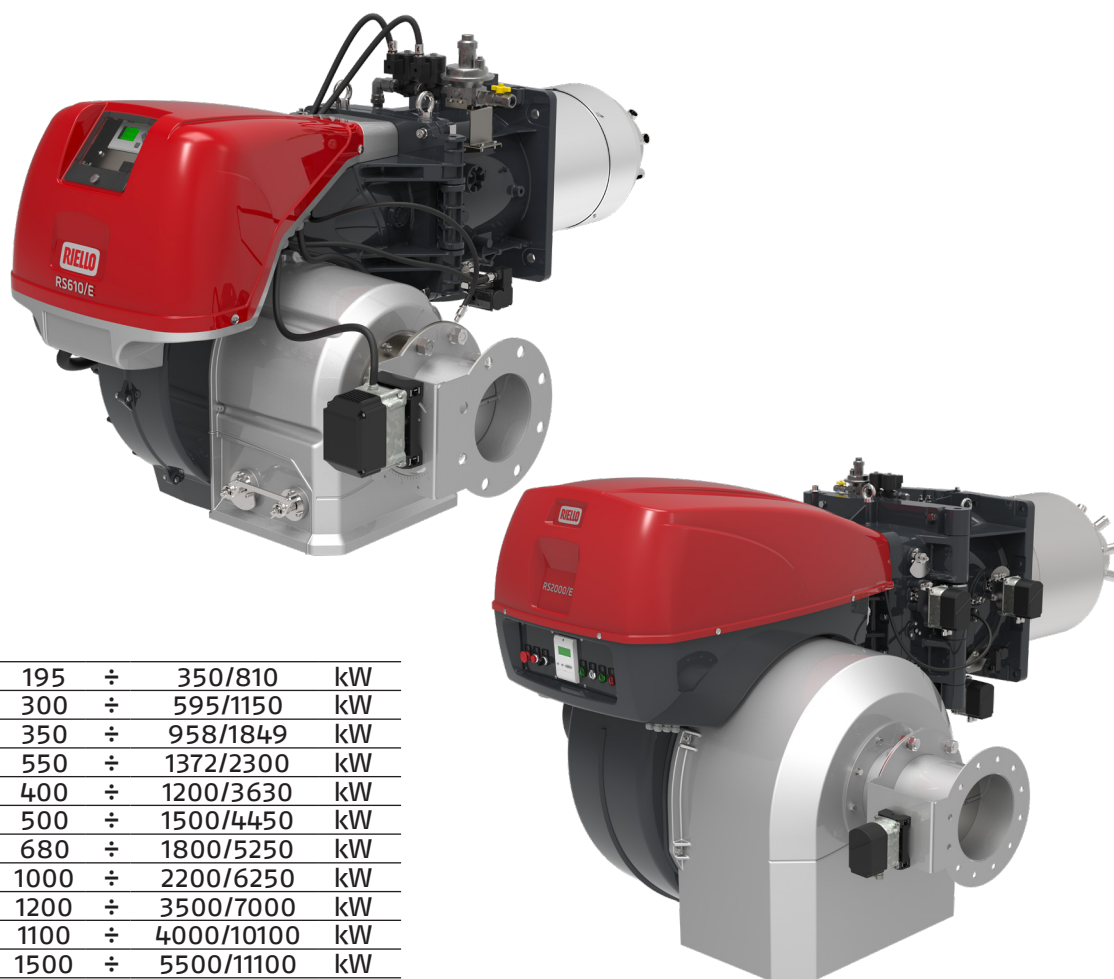
Due to the significant increase of pollutants in these last years, attention to performance, energy efficiency and emission reduction is becoming more important all around the world, in particular in all the highly industrialized countries.

In order to comply the increasing demand of very low NO_x emissions, RIELLO has developed a new range of Monoblock and Dual Block burners equipped with advanced Low NO_x combustion heads and with the FGR (Flue gas Recirculation) low emission technology, which are suitable to achieve the most restrictive emission limits. FGR technology is based on the recirculation of a part of the exhaust gas, which is introduced in the air inlet side of the burner; an integrated Digital Burner Management System, through the action of independent servomotors, allows the control of air, fuel and exhaust gas proportion in every working point, in order to reach very low NO_x emissions, while maintaining high reliability and safety of operation.



Ultra Low NOx Gas FGR Monoblock Burners RS 68÷2000/E FGR SERIES

With many years of experience in the design and manufacture of Burners, Riello has developed a new range of Commercial and Industrial products, the New RS/E FGR Series, based on FGR (Flue gas Recirculation) low emission technology, suitable to achieve extremely Low NOx emission performance, lower than 30 mg/Nm³ @ 3.5% O₂. The RS/E FGR burners series operation is based on a Digital Burner Management System, which is able to manage the air-fuel ratio by independent servomotors in order to obtain a perfect output control and to assure a correct low polluting combustion and a safe operation on all modulation range. The monoblock configuration allows having all the components integrated in a compact size, in order to facilitate and make extremely easy the installation and maintenance.

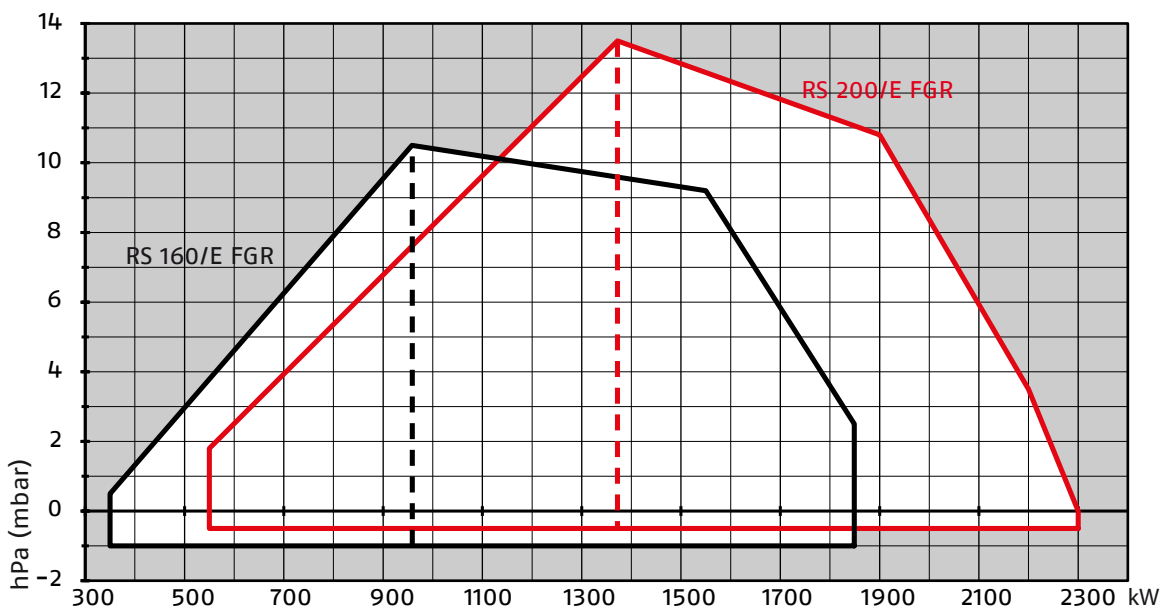
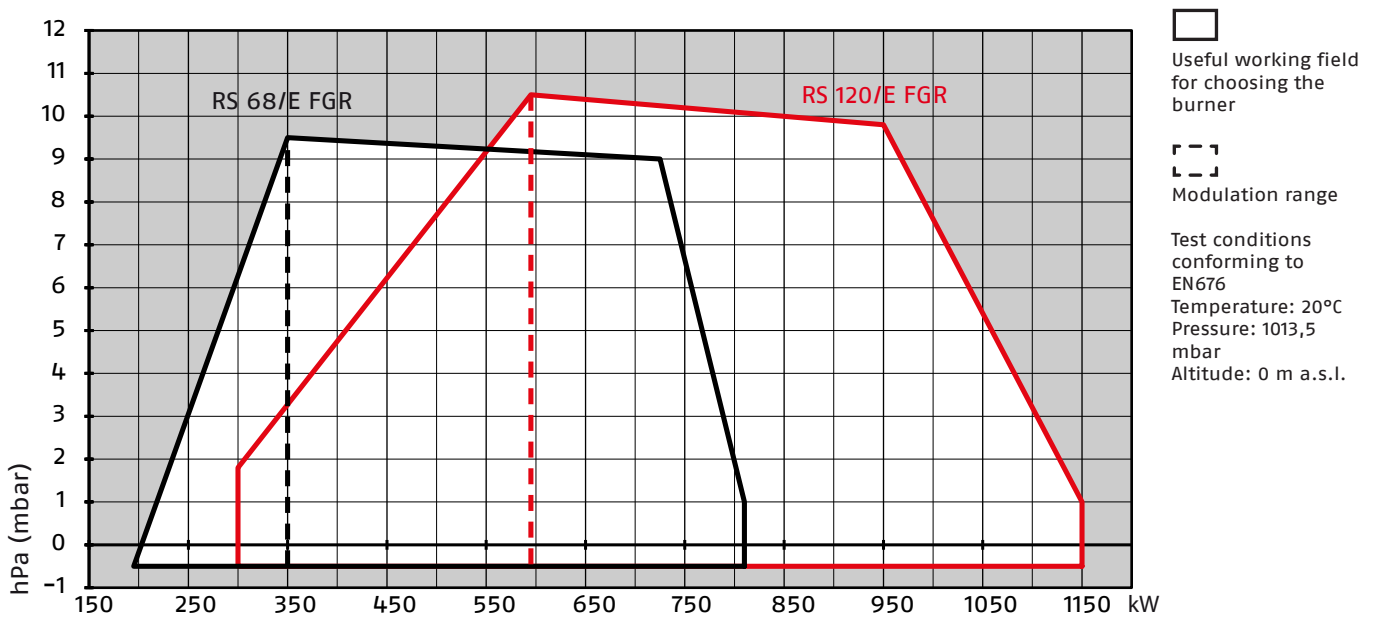


BURNER MODEL

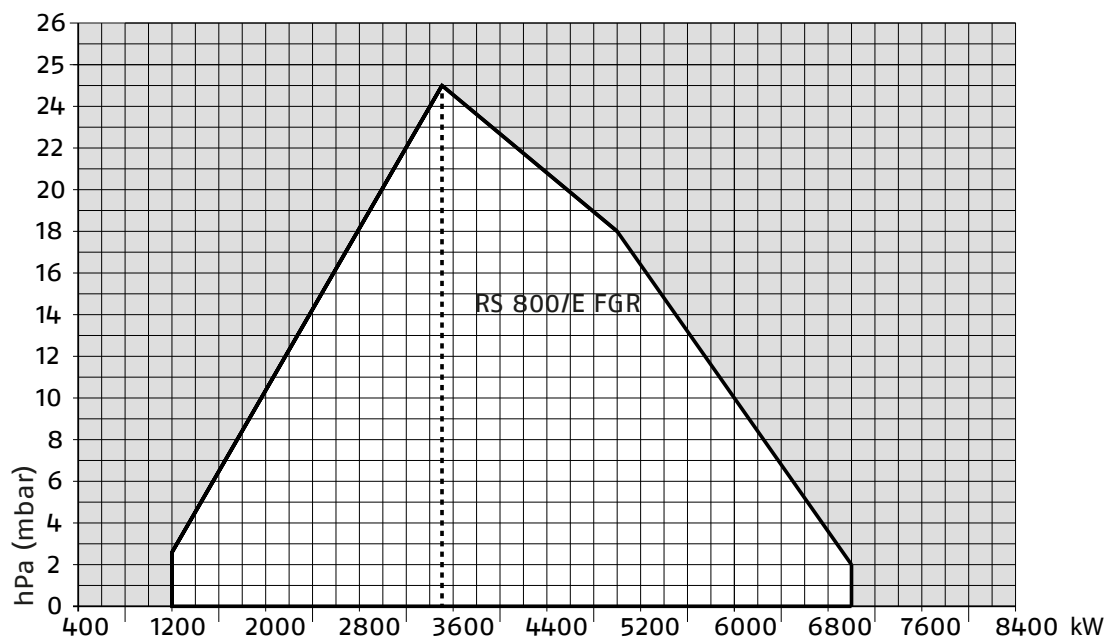
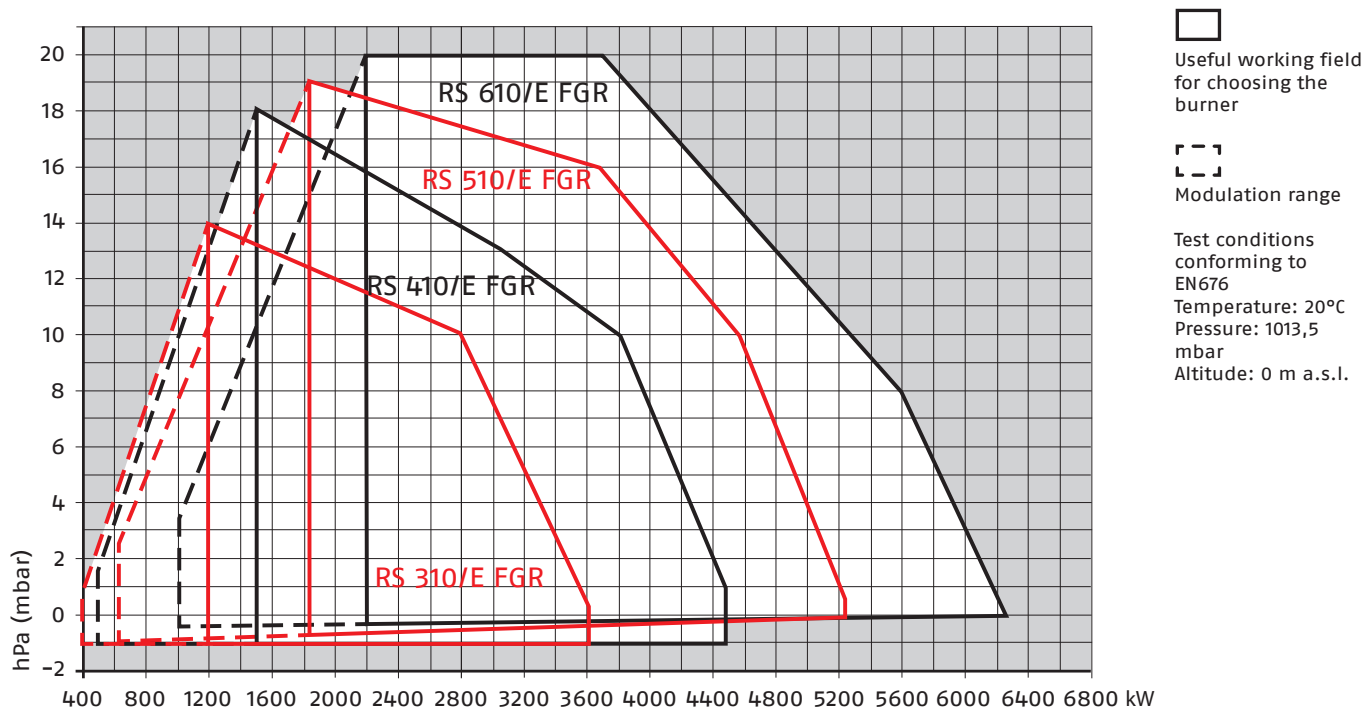
RS 68/E FGR	195 ÷	350/810	kW
RS 120/E FGR	300 ÷	595/1150	kW
RS 160/E FGR	350 ÷	958/1849	kW
RS 200/E FGR	550 ÷	1372/2300	kW
RS 310/E FGR	400 ÷	1200/3630	kW
RS 410/E FGR	500 ÷	1500/4450	kW
RS 510/E FGR	680 ÷	1800/5250	kW
RS 610/E FGR	1000 ÷	2200/6250	kW
RS 800/E FGR	1200 ÷	3500/7000	kW
RS 1000/E FGR	1100 ÷	4000/10100	kW
RS 1200/E FGR	1500 ÷	5500/11100	kW
RS 1300/E FGR	2500 ÷	7500/13000	kW
RS 1600/E FGR	3065 ÷	9503/15560	kW
RS 2000/E FGR	4000 ÷	12000/19500	kW

Firing Rates

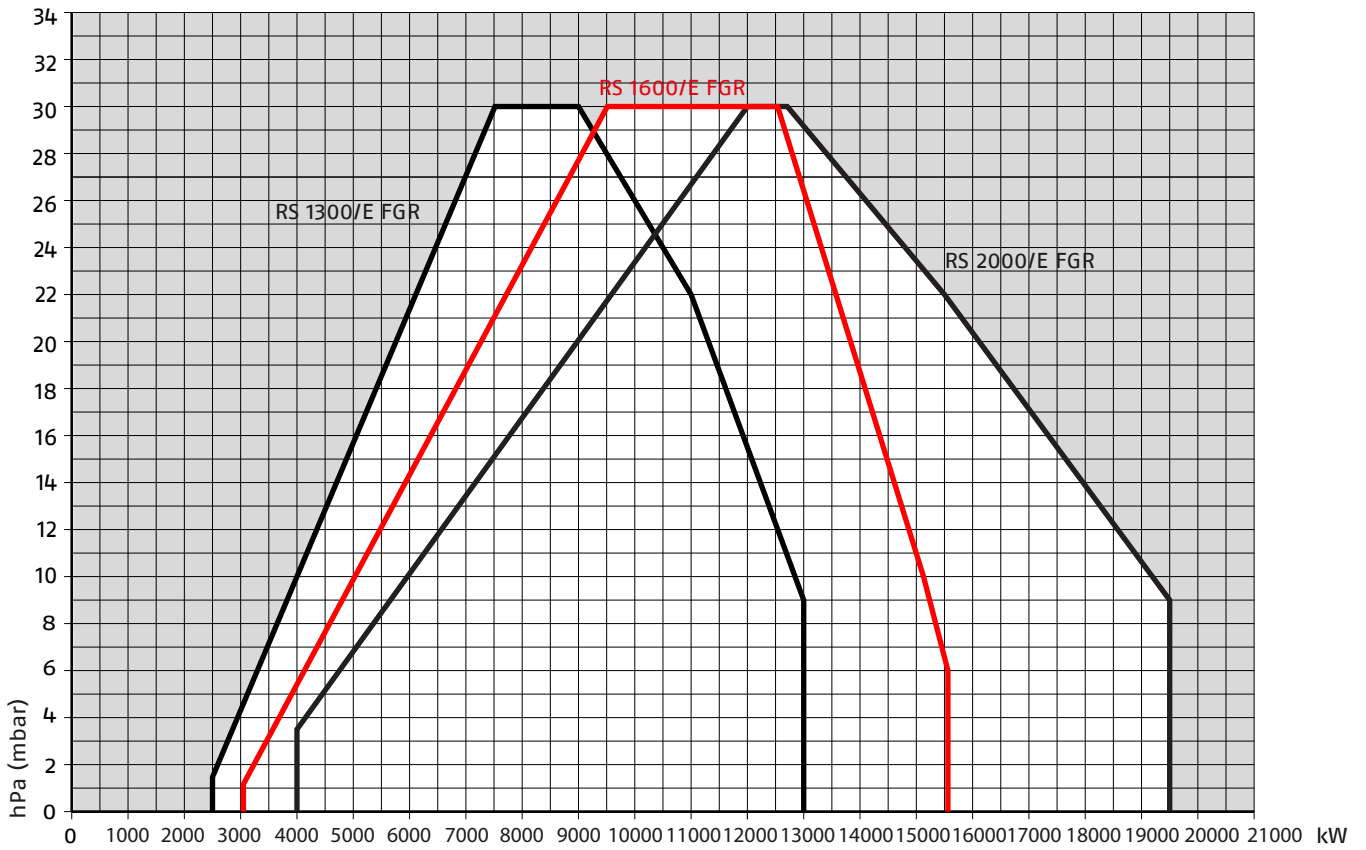
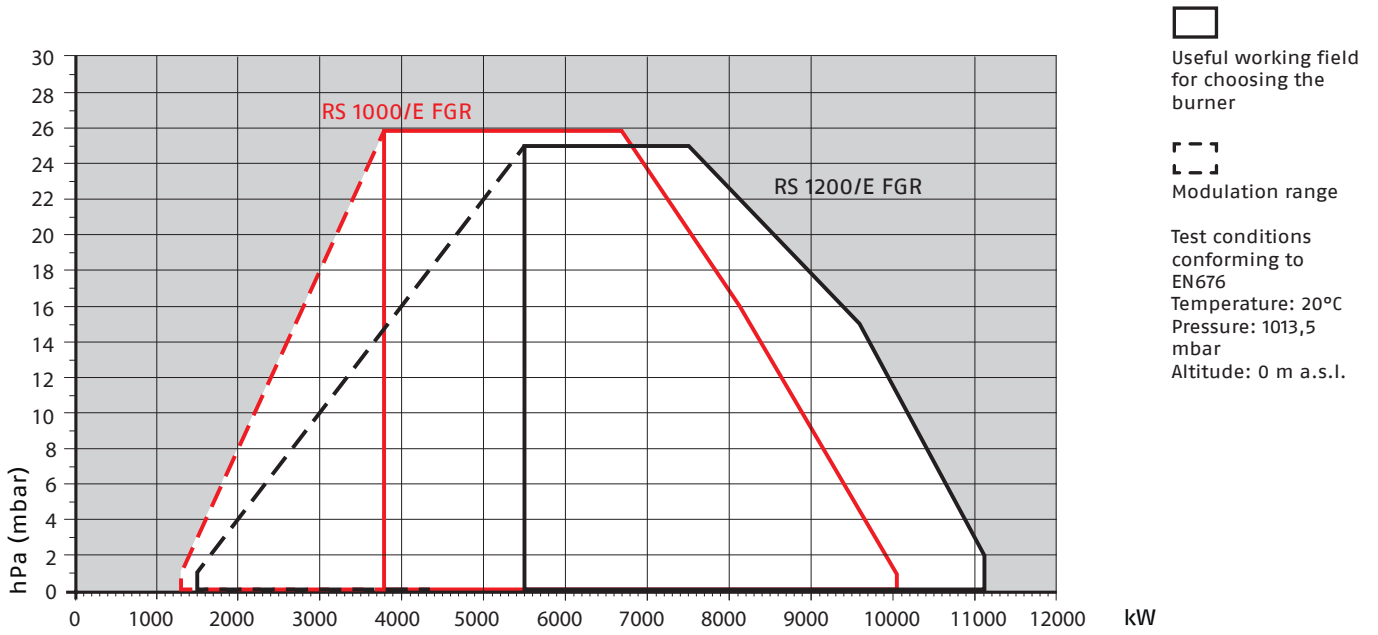
Please note: it is important to be aware that the use of the Flue Gas Recirculation (FGR) function, in order to achieve an ULTRA Low NO_x emission performance, might lower the burner's maximum output, because the maximum amount of combustion air that can be introduced will be reduced, and so the oxygen concentration. The shown firing rates are obtained in special test boilers, according to EN 676 regulation and referred to a Low NO_x performance conforming to the Class 3 of EN676, with 0% of Flue Gas Recirculation; by increasing the recirculation % in order to achieve an ULTRA Low NO_x emission the burner's maximum output will be reduced. A Flue Gas Recirculation % needed to obtain an Ultra Low NO_x performance of 30 mg/Nm³ will involve a maximum output reduction of roughly 20%.



Firing Rates

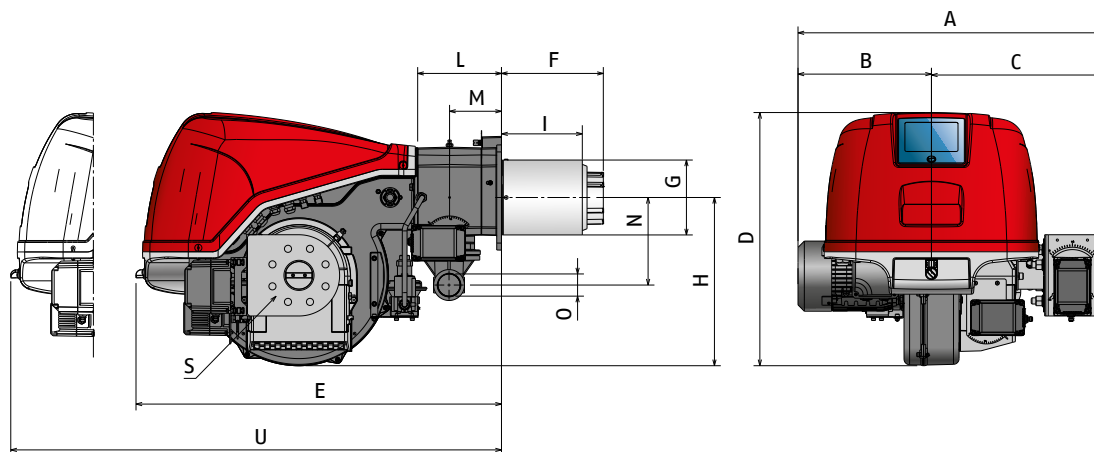


Firing Rates

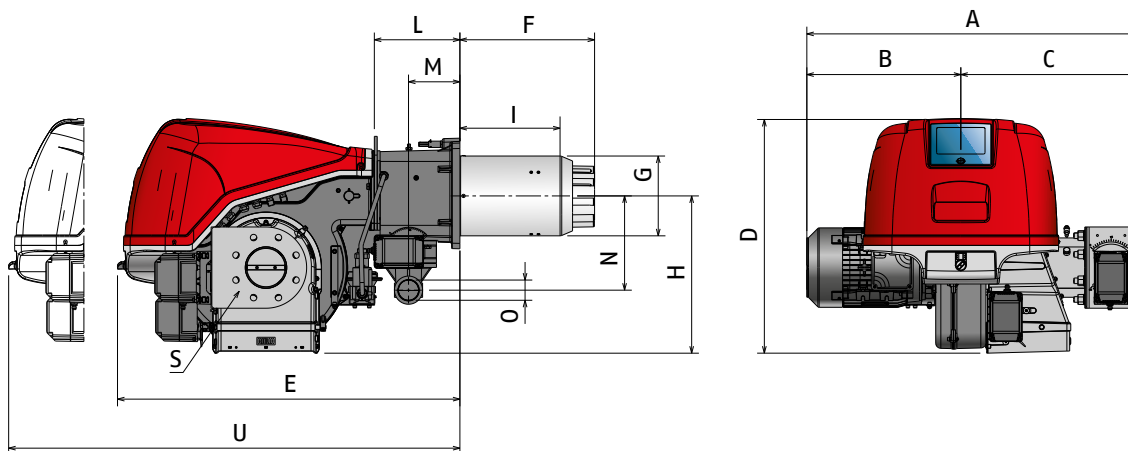


Overall dimensions (mm) Burner

RS 68-120/E FGR



RS 160-200/E FGR

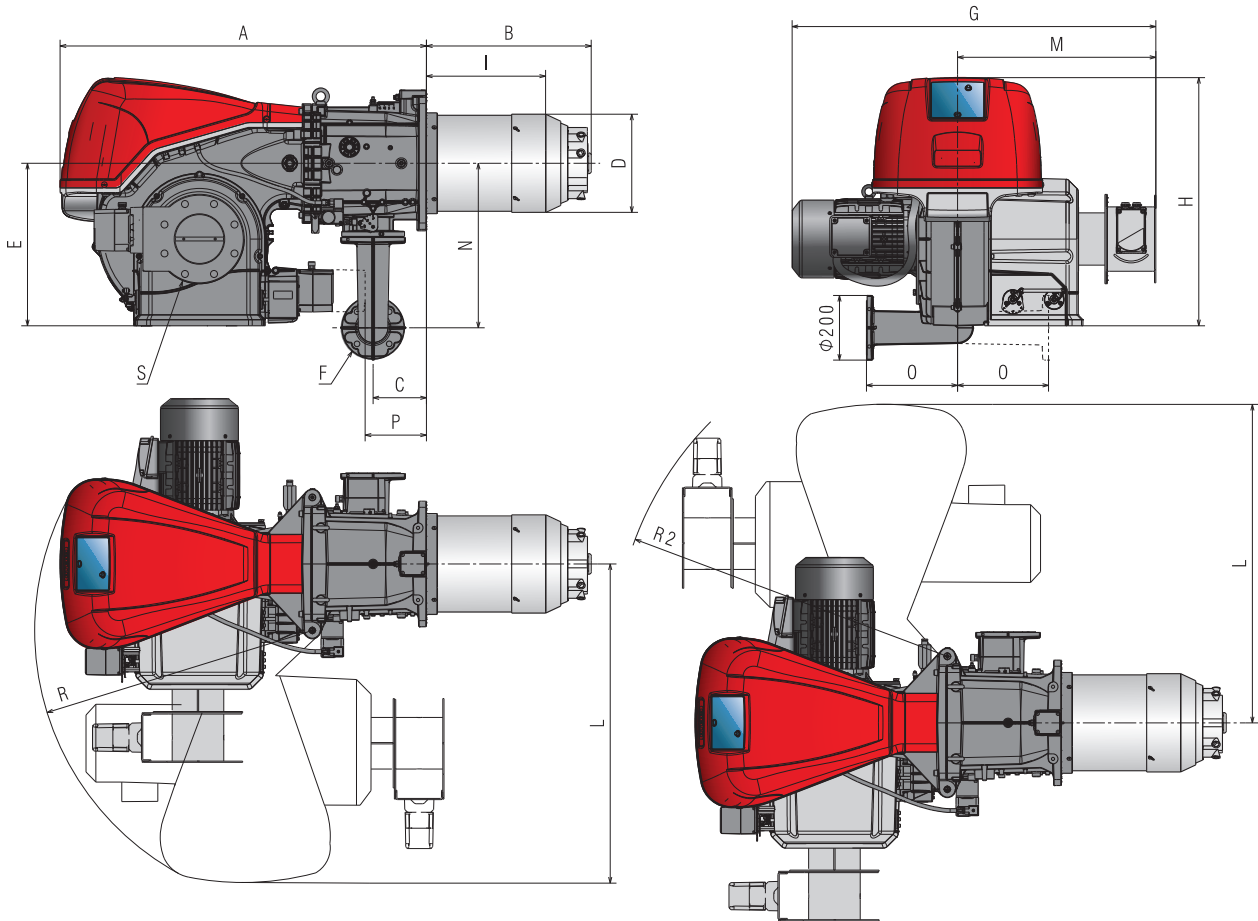


MODEL	A	B	C	D	E	F-F (1)	G	H	I	L	M	N	O	S	U-U (1)
▶ RS 68/E FGR	738	312	426	640	922	255-390	189	425	200-335	214	134	221	2"	DN65	1393-1528
▶ RS 120/E FGR	763	337	426	640	922	255-390	189	425	200-335	214	134	221	2"	DN65	1393-1528
▶ RS 160/E FGR	764	378	486	650	950	373-503	222	435	272-402	237	141	260	2"	DN80	1520-1665
▶ RS 200/E FGR	913	427	486	650	950	373-503	222	435	272-402	237	141	260	2"	DN100	1520-1665

(1) Dimension with extended head

Overall dimensions (mm) Burner

RS 310-610/E FGR



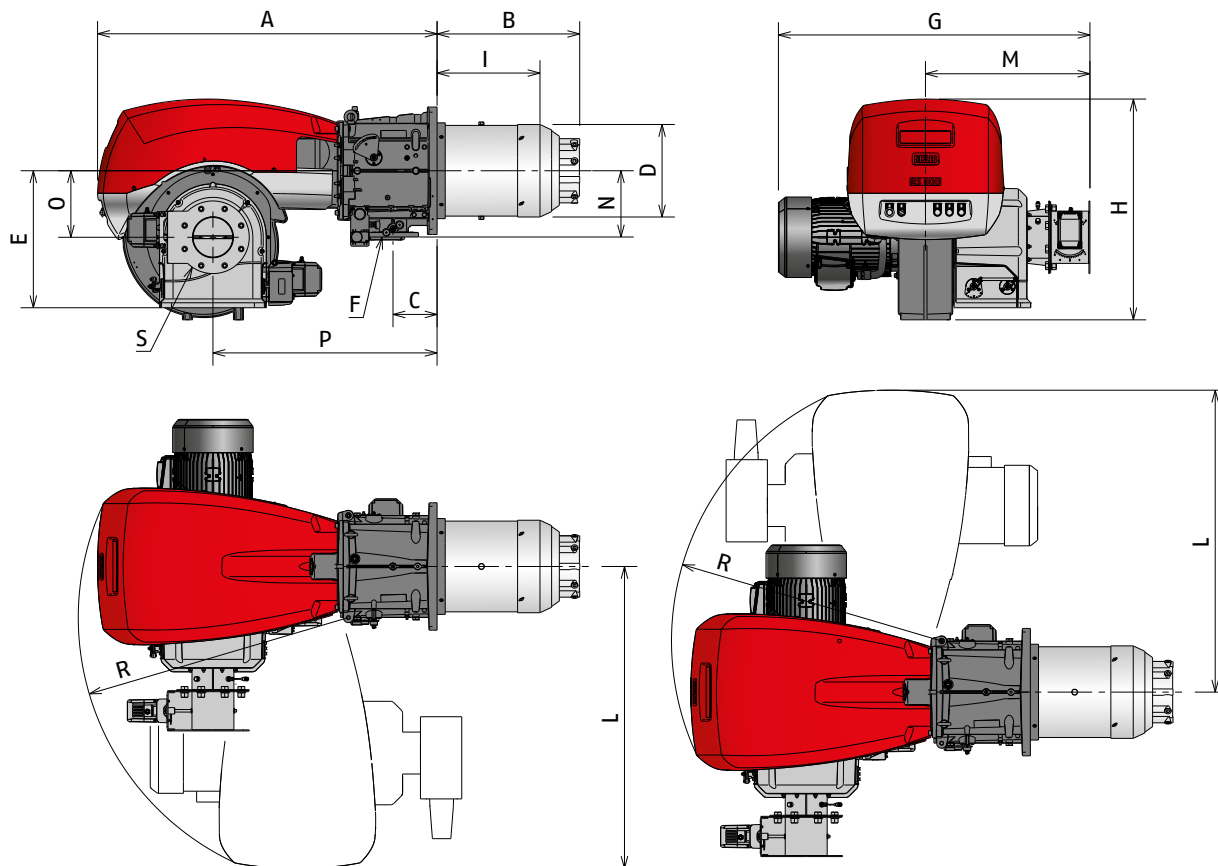
MODEL	A	B	C	D	E	F*	G	H	I	L	M	N	O	P**	R	R2	S
▶ RS 310/E FGR	1178	465	178	306	520	DN65	1185	790	346	1015	615	528	290	177	900	1045	DN100
▶ RS 410/E FGR	1178	517	178	313	520	DN65	1140	790	340	1015	615	528	290	177	890	1045	DN125
▶ RS 510/E FGR	1260	517	178	313	520	DN65	1140	790	360	1015	620	528	290	177	890	1045	DN125
▶ RS 610/E FGR	1260	517	178	336	520	DN65	1215	790	365	1015	632	528	290	177	10	1070	DN150

* The gas adaptor is set also for DN 80 bore.

** Maximum position for the extraction of the servomotor cover.

Overall dimensions (mm) Burner

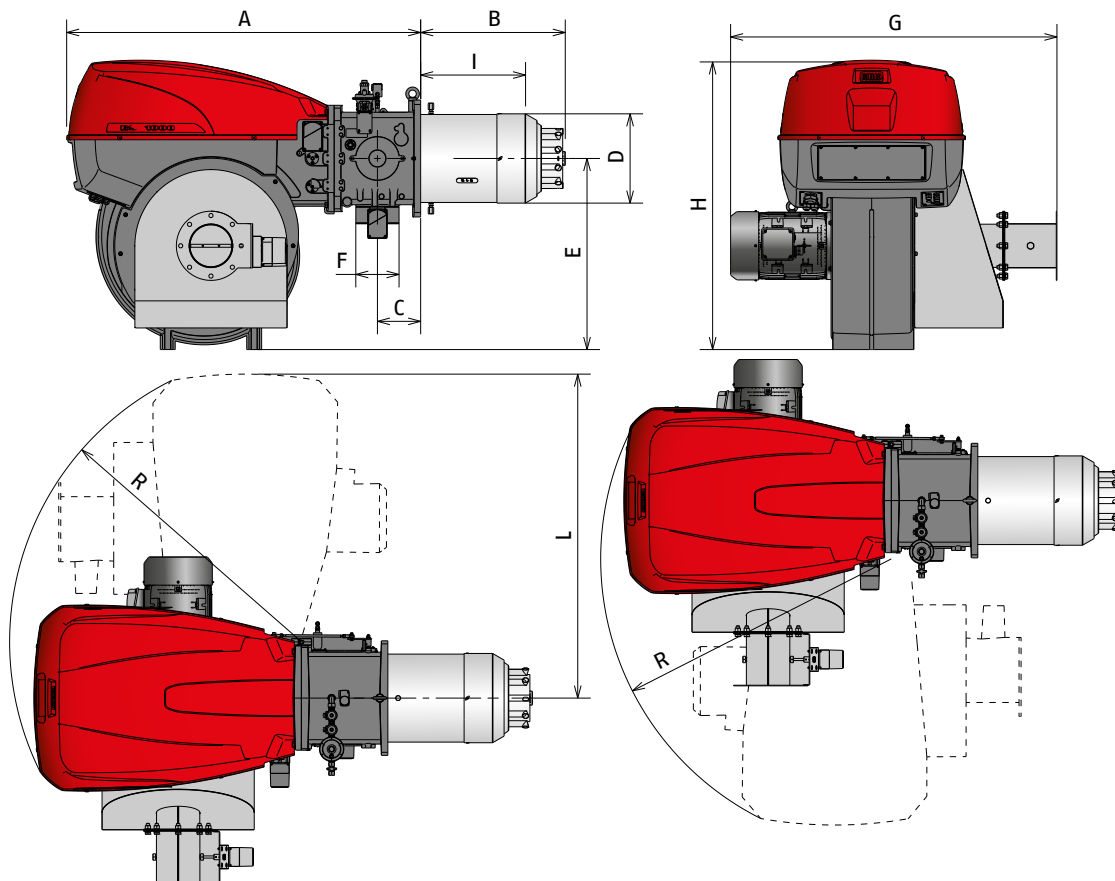
RS 800/E FGR



MODEL	A	B	C	D	E	F*	G	H	I	L	M	N	O	P	R	S
► RS 800/E FGR	1332	560	173	363	538	DN80	1222	865	403	1175	645	260	261	880	1055	DN150

Overall dimensions (mm) Burner

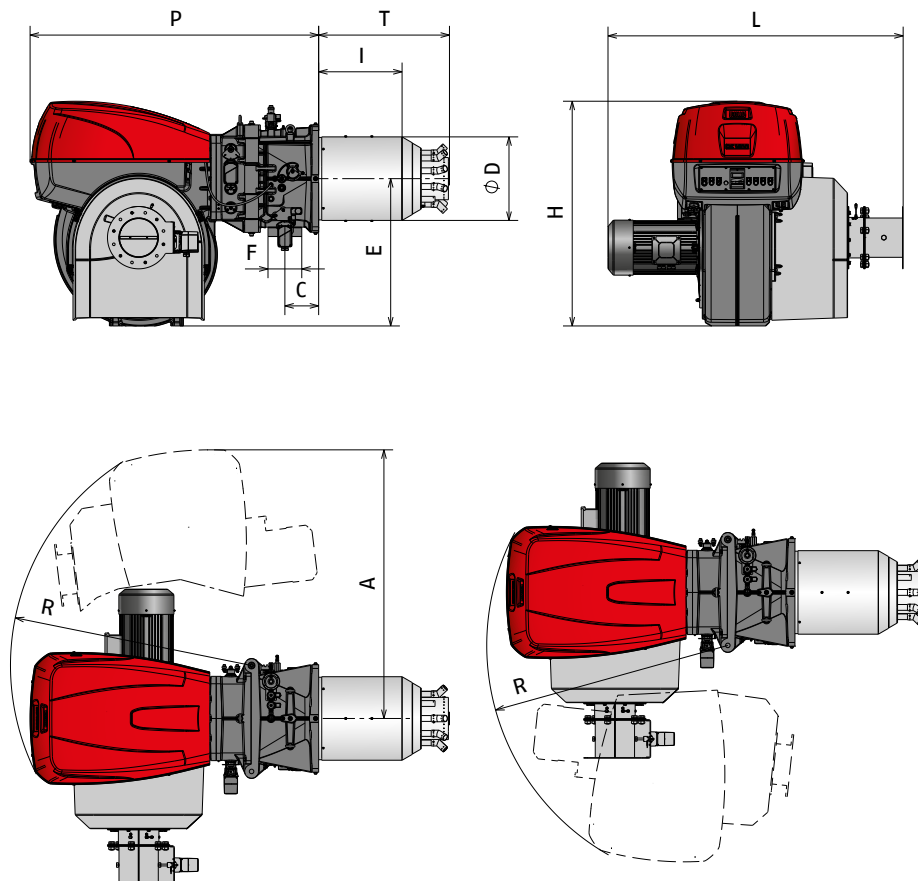
RS 1000-1200/E FGR



MODEL	A	B	C	D	E	F	G	H	I	L	R
▶ RS 1000/E FGR	1637	669	200	413	885	DN80	1510	1338	485	1493	1350
▶ RS 1200/E FGR	1637	670	200	456	885	DN80	1630	1338	463	1493	1350

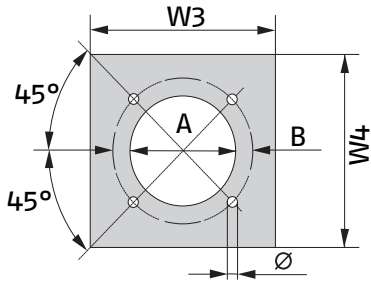
Overall dimensions (mm) Burner

RS 1300-1600-2000/E FGR

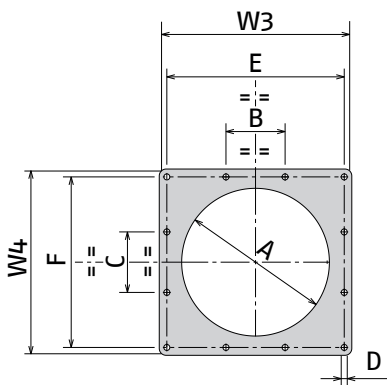


MODEL	A	C	D	E	F	H	I	L	P	R	T
▶ RS 1300/E FGR	1782	220	544	960	DN80	1463	383	1928	1880	1565	613
▶ RS 1600/E FGR	1785	220	544	960	DN100	1463	544	1922	1880	1565	852
▶ RS 2000/E FGR	1782	220	590	960	DN100	1463	562	1922	1880	1565	852

Overall dimensions (mm) Burner – Boiler Mounting Flange

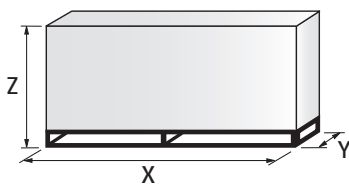


MODEL	A	B	C	W3	W4
▶ RS 68/E FGR	195	275 - 325	M12	265	265
▶ RS 120/E FGR	195	275 - 325	M12	265	265
▶ RS 160/E FGR	230	325 - 368	M16	320	320
▶ RS 200/E FGR	230	325 - 368	M16	320	320
▶ RS 310/E FGR	335	452	M18	400	431
▶ RS 410/E FGR	335	452	M18	400	431
▶ RS 510/E FGR	335	452	M18	400	431
▶ RS 610/E FGR	350	452	M18	400	431
▶ RS 800/E FGR	400	495	M18	530	530
▶ RS 1000/E FGR	460	608	M20	530	530
▶ RS 1200/E FGR	500	608	M20	530	530



MODEL	A	B	C	D	E	F	W3	W4
▶ RS 1300/E FGR	580	215	220	M20	645	620	700	700
▶ RS 1600/E FGR	580	215	220	M20	645	620	700	700
▶ RS 2000/E FGR	580	215	220	M20	645	620	700	700

Packaging



MODEL	X	Y	Z	kg
▶ RS 68/E FGR	1500	850	1000	100
▶ RS 120/E FGR	1500	850	1000	105
▶ RS 160/E FGR	1500	850	1000	110
▶ RS 200/E FGR	1500	850	1000	148
▶ RS 310/E FGR	2040	1280	1125	265
▶ RS 410/E FGR	2040	1280	1125	265
▶ RS 510/E FGR	2040	1280	1125	265
▶ RS 610/E FGR	2040	1280	1125	295
▶ RS 800/E FGR	2150	1070	1425	320
▶ RS 1000/E FGR	2640	1700	1750	450
▶ RS 1200/E FGR	2640	1700	1750	470
▶ RS 1300/E FGR	2960	1750	1800	1180
▶ RS 1600/E FGR	2960	1750	1800	1180
▶ RS 2000/E FGR	2960	1750	1800	1220

Specification

STATE OF SUPPLY

Monoblock forced draught, Ultra Low NOx gas burner with Flue Gas Recirculation (FGR) system, with modulating operation, fully automatic, made up of:

- High performance fan with low sound emissions
- Air suction circuit
- Air damper for air setting controlled by a high precision servomotor
- Air pressure switch
- Three-phase Fan starting motor
- Low emission combustion head, that can be set on the basis of required output, fitted with:
 - stainless steel end cone, resistant to corrosion and high temperatures
 - flame stability disk
- Automatic regulator for gas delivery, controlled by a high precision servomotor
- Burner Pilot Ignition system, with dedicated gas train, to assure a high ignition reliability
- Flue gas recirculation butterfly valve controlled by a high precision servomotor
- Flue gas recirculation temperature probe to prevent condensation in burner intake
- Maximum gas pressure switch, with pressure test point, to stop the burner in the case of excess pressure on the fuel supply line
- Electronic Cam control
 - for air/fuel setting
 - for output modulation with incorporated PID control of temperature or pressure of the heat generator
 - with indication of operating status and parameters, error messages and diagnosis of fault causes
- Operator panel with LCD Display Interface, for combustion system commissioning and monitoring
- Burner safety control included on Electronic Cam device
- UV sensor for flame detection
- Main electrical supply terminal board
- Burner on/off switch
- Manual or automatic output increase/decrease switch
- Contacts motor and thermal relay with release button
- Motor internal thermal protection
- Clean contacts relay
- Burner failure led signal and lighted release button
- Guides for opening the burner and inspecting the combustion head (RS 68 ÷ 200/E FGR)
- Hinge for opening the burner and inspecting the combustion head (RS 310 ÷ 2000/E FGR)
- Lifting rings

Standard equipment:

Thermal insulation screen

- Screws to fix the burner flange to the boiler
- Screws to fix the gas train flange
- Gasket for gas train flange
- Pressure switch for leak detection control of gas train
- Spare parts catalogue
- Instruction handbook for installation, use and maintenance

Available models

Burners

CODE	MODEL			HEAT OUTPUT NATURAL GAS		TOTAL ELECTRICAL POWER (kW)	MOTOR ELECTRICAL POWER (kW)	NOTE
				(kW)	(Nm ³ /h)			
20130750	RS 68/E FGR	TC FS1	3/400/50	195/350-810	20/35 - 81	2,1	1,5	(1)(2)
20130751	RS 120/E FGR	TC FS1	3/400/50	300/595 - 1150	30/60 - 115	2,9	2,2	(1)(2)
20130724	RS 160/E FGR	TC FS1	3/400/50	350/958 - 1849	35/96 - 185	5,3	4,5	(1)(2)
20130748	RS 200/E FGR	TC FS1	3/400/50	550/1372 - 2300	55/137 - 230	6,5	5,5	(1)(2)
20128711	RS 310/E FGR	TC FS1	3/400/50	400/1200 - 3630	40/120 - 363	9,1	7,5	(1)(2)
20128715	RS 410/E FGR	TC FS1	3/400/50	500/1500 - 4450	50/150 - 445	10,6	9,2	(1)(2)
20128716	RS 510/E FGR	TC FS1	3/400/50	680/1800 - 5250	68/180 - 525	13,9	12,0	(1)(3)
20128724	RS 610/E FGR	TC FS1	3/400/50	1000/2200 - 6250	100/220 - 625	16,9	15,0	(1)(3)
20128145	RS 800/E FGR	TC FS1	3/400/50	1200/3500 - 7000	120/350 - 700	24	22,0	(1)(3)
20129169	RS 1000/E FGR	TC FS1	3/400/50	1100/4000 - 10100	110/400 - 1010	25,7	22,0	(1)(3)
20129173	RS 1200/E FGR	TC FS1	3/400/50	1500/5500 - 11100	150/550 - 1110	28,7	25,0	(1)(3)
20130195	RS 1300/E FGR	TC FS1	3/400/50	2500/7500 - 13000	250/750 - 1300	34,7	30,0	(1)(3)
20130194	RS 1600/E FGR	TC FS1	3/400/50	3065/9503 - 15560	307/950 - 1556	41,5	37,0	(1)(3)
20130193	RS 2000/E FGR	TC FS1	3/400/50	4000/12000 - 19500	400/1200 - 1950	49,3	45,0	(1)(3)

(1) Power range referred to a Low NOx performance conforming to the Class 3 of EN 676 European Standard, with 0% of Flue Gas Recirculation; by increasing the recirculation % in order to achieve an ULTRA Low NOx emission the burner's maximum output will be reduced

(2) Direct starter fan motor

(3) Star delta fan motor starter

For more information about product codes, please contact Riello Burners Commercial and Technical Department, our Application Engineers will be pleased to help you.

Burner accessories

Extended head kit

BURNER	STANDARD HEAD LENGTH (mm)	EXTENDED HEAD LENGTH (mm)	KIT CODE
▶ RS 160/E FGR	373	503	20131539
▶ RS 200/E FGR	373	503	20131510

Accessories for modulating operation

BURNER	PROBE TYPE	RANGE (°C) (bar)	PROBE CODE
▶ All models	Temperature PT 100	-100 ÷ 500°C	3010110
	Pressure 4 ÷ 20 mA	0 ÷ 2,5 bar	3010213
	Pressure 4 ÷ 20 mA	0 ÷ 16 bar	3010214
	Pressure 4 ÷ 20 mA	0 ÷ 25 bar	3090873

Available models

Gas Trains

CODE	GAS TRAIN MODEL	Ø	ADAPTER CODE			
			RS 68	RS 120	RS 160	RS 200
3970258*	MB 410/1 - RT 52	Rp 1" ¼		3010126	●	●
3970600*	MB 410/1 - RT 52	Rp ¾"		3000824 + 3000843	●	●
3970256*	MB 412/1 - RT 52	Rp 1" ½		3000843		●
3970250*	MB 415/1 - RT 52	Rp 1" ½		3000843		
3970257*	MB 420/1 - RT 52	Rp 2"		□		
3970221*	MBC 1200/1 - RSM 60	Rp 2"		□		
3970222*	MBC 1900/1 - FSM 40	DN 65		3000825		
3970223*	MBC 3100/1 - FSM 40	DN 80		3000826		
3970224*	MBC 5000/1 - FSM 80	DN 100	●	●	●	3010370 + 3000826
3970145*	CB 512/1 - RSM 30	Rp 1" ½		3000843		
3970146*	CB 520/1 - RSM 30	Rp 2"		□		
20044659*	CB 525/1 - RSM 30	Rp 2"		□		
3970147*	CB 5065/1 - FSM 30	DN 65		3000825		
3970148*	CB 5080/1 - FSM 30	DN 80		3000826		
3970149*	CB 50100/1 - FSM 30	DN 100		3010370 + 3000826		
20015871*	CB 50125/1 - FSM 30	DN 125	●		3010224 + 3000826	

Please see designation of Gas Train Series in the page before the Catalogue index.

* 230V/50Hz -220V/60Hz electrical supply.

The valves seal control device is compulsory (conforming to EN 676) on gas trains to burners with a maximum output over 1200 kW.

The seal control function is managed by REC control box, by installation on gas train of a pressure switch (please see Gas train accessories paragraph); it is included as standard equipment on RS 120/E-EV-160/E-EV-200/E-EV BLU models.

To select the gas train please refer to the instruction manual.

● Not available.

□ Additional adapter not necessary, the gas train may be connected directly to the burner.

CODE	GAS TRAIN MODEL	Ø	ADAPTER CODE			
			RS 310	RS 410	RS 510	RS 610
3970250*	MB 415/1 - RT 52	Rp 1" ½	3000826 + 20064220	●	●	●
3970257*	MB 420/1 - RT 52	Rp 2"	3000826 + 20042324	●	●	●
3970221*	MBC 1200/1 - RSM 60	Rp 2"		3000826 + 20042324		
3970222*	MBC 1900/1 - FSM 40	DN 65		3010221		
3970223*	MBC 3100/1 - FSM 40	DN 80		3010222		
3970224*	MBC 5000/1 - FSM 80	DN 100		3010222 - 3010370		
3970145*	CB 512/1 - RSM 30	Rp 1" ½	3000826 + 20064220		●	●
3970146*	CB 520/1 - RSM 30	Rp 2"		3000826 + 20042324		
20044659*	CB 525/1 - RSM 30	Rp 2"		3000826 + 20042324		
3970147*	CB 5065/1 - FSM 30	DN 65		3010221		
3970148*	CB 5080/1 - FSM 30	DN 80		3010222		
3970149*	CB 50100/1 - FSM 30	DN 100		3010223 - 3010370		
20015871*	CB 50125/1 - FSM 30	DN 125		3010224		

Please see designation of Gas Train Series in the page before the Catalogue index.

* 230V/50Hz -220V/60Hz electrical supply.

** 230V/50Hz electrical supply.

The valves seal control device is compulsory (conforming to EN 676) on gas trains to burners with a maximum output over 1200 kW.

The seal control function is managed by REC control box, by installation on gas train of a pressure switch (please see Gas train accessories paragraph).

To select the gas train please refer to the instruction manual.

● Not available.

□ Additional adapter not necessary, the gas train may be connected directly to the burner.

Available models

Gas Trains

CODE	GAS TRAIN MODEL	Ø	VPS CODE	ADAPTER CODE		
				RS 800	RS 1000	RS 1200
3970221*	MBC 1200/1 - RSM 60	Rp 2"	3010123	20042324 + 20064169 / (20068062) ¹	20066263 / (20065924 + 20066263) ¹	
3970222*	MBC 1900/1 - FSM 40	DN 65	3010123	20059330 / (20065924 + 20059330) ¹ / (3010221 + 20059331) ²	20066263 / (20065924 + 20066263) ¹	
3970223*	MBC 3100/1 - FSM 40	DN 80	3010123	20059331 / (20065937 + 20059331) ¹ / (3010222 + 20059331) ²	20066268 / (20065937 + 20066268) ¹	
3970224*	MBC 5000/1 - FSM 80	DN 100	3010123	20059332 / (20065960 + 20059332) ¹ / (3010223 + 20059331) ²	20066278 / (20065960 + 20066278) ¹	
3970147*	CB 5065/1 - FSM 30	DN 65	3010123	20059330 / (20065924 + 20059330) ¹ / (3010221 + 20059331) ²	20066263 / (20065924 + 20066263) ¹	
3970148*	CB 5080/1 - FSM 30	DN 80	3010123	20059331 / (20065937 + 20059331) ¹ / (3010222 + 20059331) ²	20066268 / (20065937 + 20066278) ¹	
3970149*	CB 50100/1 - FSM 30	DN 100	3010123	20059332 / (20065960 + 20059332) ¹ / (3010223 + 20059331) ²	20066278 / (20065960 + 20066268) ¹	
20015871*	CB 50125/1 - FSM 30	DN 125	3010123	20059333 / (20065968 + 20059333) ¹ / (3010224 + 20059331) ²	20066284 / (20065968 + 20066284) ¹	

Please see designation of Gas Train Series in the page before the Catalogue index.

* 230V/50Hz -220V/60Hz electrical supply.

The valve seal control device is compulsory (conforming to EN 676) on gas trains to burners with a maximum output over 1200 kW.

The seal control function is managed by LMV control box, by installation on gas train of a pressure switch supplied, as standard equipment with the burner.

To select the gas train please refer to the technical data leaflet and/or instruction manual.

1) To be used with gas train and burner opening on the left (fan motor side).

CODE	GAS TRAIN MODEL	Ø	◆	CQ KIT CODE	ADAPTER CODE	
					RS 1300	RS 1600 - 2000
3970223	MBC 3100/1 - FSM 40	DN 80	-	3010344	20130713	20130602
20093449	MBC 3100/1 CQ FSM 40	DN 80	CQ	-	20130713	20130602
3970224	MBC 5000/1 - FSM 80	DN 100	-	3010344	20130602	20130616
20093452	MBC 5000/1 CQ FSM 80	DN 100	CQ	-	20130602	20130616
3970149	CB 50100/1 - FSM 30	DN 100	-	3010344	20130602	20130616
20015871	CB 50125/1 - FSM 30	DN 125	-	3010344	20130606	20130617
20043047	DMV 50100/1 - FSM -0	DN 100	-	3010344	20130602	20130616
20043049	DMV 50100/1 CQ FSM -2	DN 100	CQ	-	20130602	20130616
20043050	DMV 50125/1 - FSM -0	DN 125	-	3010344	20130606	20130617
20043052	DMV 50125/1 CQ FSM -2	DN 125	CQ	-	20130606	20130617
20130030	VDG 40.80	DN 80	CQ	-	20130713	20130602
20130031	VDG 40.100	DN 100	CQ	-	20130602	20130616
20130032	VDG 40.125	DN 125	CQ	-	20130606	20130617
20130033	VDG 40.150	DN 150	CQ	-	●	20130039

Please see designation of Gas Train Series in the page before the Catalogue index.

◆ Gas valve leak detection control device:
- gas train not equipped with leak detection control device; this device can be ordered separately - see VPS column - and installed later.

CQ gas train with pressure switch for leak detection control of burners /E and /EV.

CQ KIT Additional pressure switch for leak detection control in combination with burners /E and /EV.

● Gas train not available or not suitable for the matching to the burner.

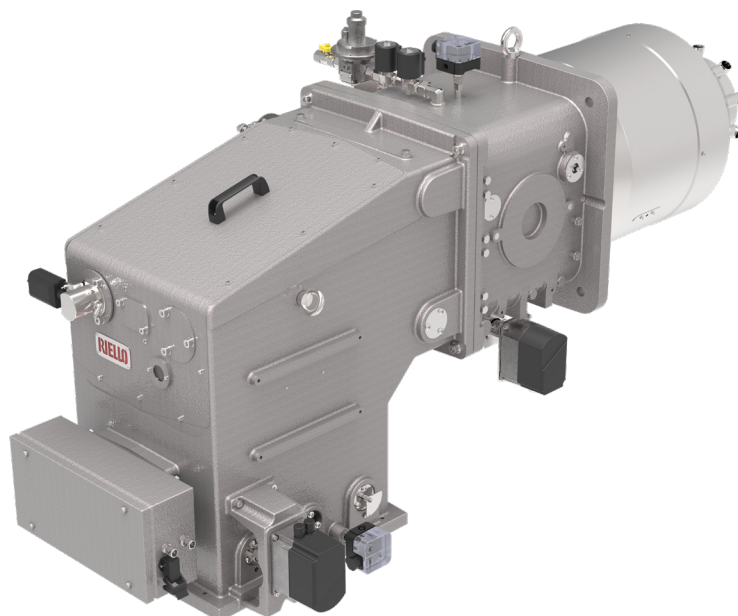
Ultra Low NOx Gas FGR Industrial Dual Block Burners DB SE FGR SERIES

In order to comply the increasing demand of very low NOx emissions, Riello has developed a new range of Dual-block burners, the DB SE FGR series, from 2.500 to 16.000 kW, based on FGR (Flue gas Recirculation) low emission technology, suitable to achieve extremely Low NOx emission performance, lower than 30 mg/Nm³.

The new DB SE FGR burners series represents the evolution in Riello Burners industrial product range; they are dual block burners for application in big heating plants as well as in food, chemicals, textile industry for matching with hot water boilers, steam and thermal oil generators.

DB SE FGR burners are supplied with electronic air-fuel ratio control in order to obtain a perfect output control and to assure a correct low polluting combustion and a safe operation on all modulation range.

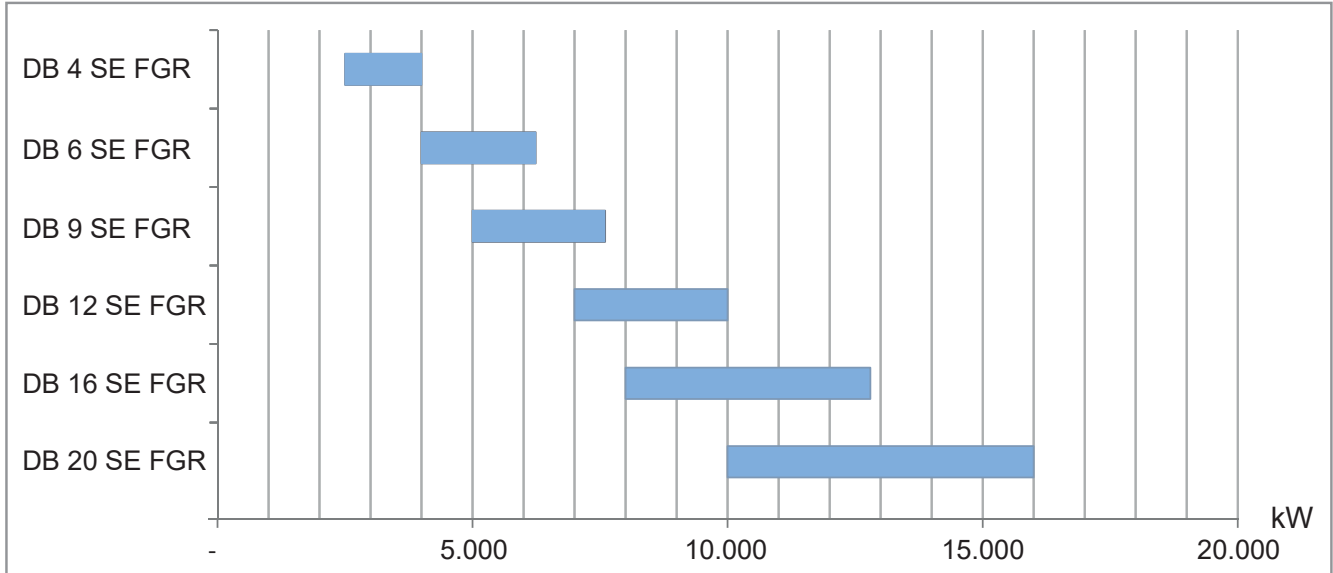
These burners models can work with pre-heated air up to 150°C as standard, up to 250°C with special construction. As part of the offer, various accessories (air fan, control panels, high pressure gas train, etc) are available.



BURNER MODEL

DB 4 SE FGR	1000/2500	÷	4000	kW
DB 6 SE FGR	1400/4000	÷	6200	kW
DB 9 SE FGR	1500/5000	÷	7600	kW
DB 12 SE FGR	1700/7000	÷	10000	kW
DB 16 SE FGR	2500/8000	÷	12800	kW
DB 20 SE FGR	3000/10000	÷	16000	kW

Firing Rates

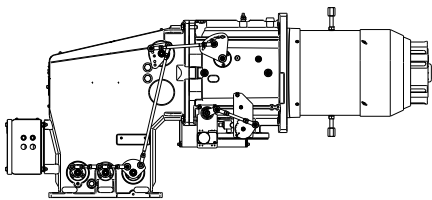


Test conditions
conforming to EN 676
Temperature: 20°C
Pressure: 1013,5 mbar
Altitude: 100 m a.s.l.

The burners of DB series can work with pre-heated air up to 150°C as standard, for high air temperature applications up to 250°C, a special burner execution is required.

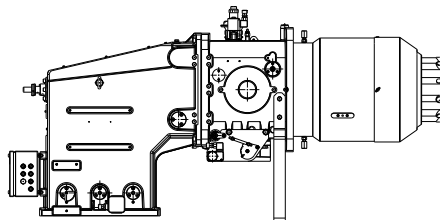
Gas Connections

DB 4: DN 65
DB 6: DN 80



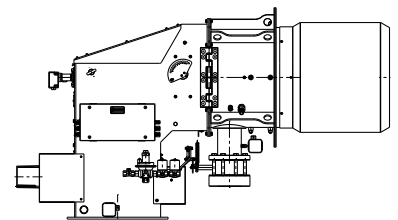
DN 65 gas connection from below
Elbow adapter DN 65 required
DN 80 gas connection from below (for gas versions).
Elbow adapter DN 80 required.

DB 9 - 12



DN 80 gas connection from below (for gas versions).
Elbow adapter DN 80 required.

DB 16 - 20



DN 100 gas connection from the side
Elbow 100/100 adapter already included as standard equipment

Specification

STATE OF SUPPLY

Dual block forced draught, Ultra Low NOx gas burner with Flue Gas Recirculation (FGR) system, with modulating operation, fully automatic, made up of:

- Air damper for air setting controlled by a high precision servomotor
- Air pressure switch
- Low emission combustion head, that can be set on the basis of required output, fitted with:
 - stainless steel end cone, resistant to corrosion and high temperatures
 - flame stability disk
- Automatic regulator for gas delivery, controlled by a high precision servomotor
- Burner Pilot Ignition system, with dedicated gas train, to assure a high ignition reliability
- Flue gas recirculation butterfly valve controlled by a high precision servomotor (separate from the burner)
- Flue gas recirculation temperature probe to prevent condensation in burner intake
- Maximum gas pressure switch, with pressure test point, to stop the burner in the case of excess pressure on the fuel supply line
- Electronic Cam control
 - for air/fuel setting
 - for output modulation with incorporated PID control of temperature or pressure of the heat generator
 - with indication of operating status and parameters, error messages and diagnosis of fault causes
- Operator panel with LCD Display Interface, for combustion system commissioning and monitoring
- Burner safety control included on Electronic Cam device
- UV sensor for flame detection
- Electrical interface box with ignition transformer inside
- Lifting rings

Available models

Burners

MODEL	OPERATION	FUEL
DB 4 SE FGR	MODULATING WITH ELECTRONIC CAM	NATURAL GAS
DB 6 SE FGR		
DB 9 SE FGR		
DB 12 SE FGR		
DB 16 SE FGR		
DB 20 SE FGR		

For more information about product codes, please contact Riello Burners Commercial and Technical Department, our Application Engineers will be pleased to help you.

Riello Burners a world of experience in every burner we sell.

12/2018

P00036UK00



[1]

Across the world, Riello sets the standard in reliable and high efficiency burner technology.

With burner capacity from 5 kW to 48 MW, Riello gas, oil, dual fuel and Low Nox burners deliver unbeatable performance across the full range of residential and commercial heating applications, as well as in industrial processes.

With headquarter in Legnago, Italy, Riello has been manufacturing premium quality burners for over 90 year. The manufacturing plant is equipped with the most innovative systems of assembling lines and modern manufacturing cells for a quick and flexible response to the market.



[2]

Besides, the Riello Combustion Research Centre, located in Angiari, Italy, represents one of the most modern facility in Europe and one of the most advanced in the world for the development of the combustion technology.

Today, the company's presence on worldwide markets is distinguished by a well-constructed and efficient sales network, alongside many important Training Centres located in various countries to meet its customers' needs. Riello has 13 operational branches abroad (in Europe, America and Asia), with customers in over 60 countries.

[1] BURNERS PRODUCTION PLANT
S. PIETRO, LEGNAGO (VERONA) - ITALIA

[2] HEADQUARTER BURNERS DIVISION
S. PIETRO, LEGNAGO (VERONA) - ITALIA

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