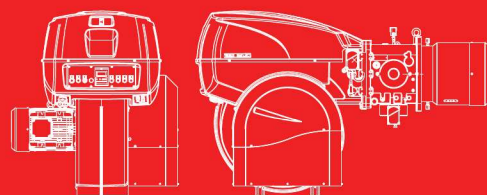




RS 300÷1200/M BLU Series

Low NO_x Modulating Gas Burners

RS 300/M BLU	500/1350	÷	3800	kW
RS 400/M BLU	950/1830	÷	4590	kW
RS 500/M BLU	1000/2500	÷	5170	kW
RS 650/M BLU	1410/3020	÷	6500	kW
RS 800/M BLU	1200/3500	÷	8100	kW
RS 1000/M BLU	1100/4000	÷	10100	kW
RS 1200/M BLU	1500/5500	÷	11100	kW



The RS 300-400-500-650-800-1000-1200/M BLU burners are characterised by a monoblock structure which means that all necessary components are combined in a single unit, making installation easier and faster.

The burners cover a firing range from 1350 to 11100 kW, and they have been designed for use in hot water boilers or industrial steam generators.

Operation can be "two stage progressive" or alternatively "modulating" with the installation of a PID logic regulator or by external 4-20 mA/0-10 V signal.

The mechanical cam device of regulation allows to catch up a high modulation ratio on all firing rates range. The burners can, therefore, supply with precision the demanded power, guaranteeing a high efficiency system level and the stability setting, obtaining fuel consumption and operating costs reduction.

The combustion head, engineered with advanced simulation devices, guarantees reduced polluting emissions (NOx < 80 mg/kWh).

FS1 and FS2 versions are available for intermittent and continuous operation applications.

An exclusive design, guarantees low sound emissions, low electrical consumption, easy use and maintenance.

Technical Data

MODEL		RS 300/M BLU	RS 400/M BLU	RS 500/M BLU
Burner operation mode		Progressive two-stage or modulating		
Modulation ratio at max. output		5 ÷ 1		
Servomotor	type	LKS 310 (FS1 version) – SQM 10 (FS2 version)		
	run time s	--		
Heat output	kW	500/1350÷3800	950/1830÷4590	1000/2500÷5170
	Mcal/h	430/1161÷3268	688/1548÷3870	860/2150÷4446
Working temperature	°C min./max.	0/50		
FUEL/AIR DATA				
Net calorific value G20 gas	kWh/Nm³	10		
G20 gas density	kg/Nm³	0.71		
G20 gas delivery	Nm³/h	50/135÷380	80/180÷450	100/250÷520
Net calorific value G25 gas	kWh/Nm³	8.6		
G25 gas density	kg/Nm³	0.78		
G25 gas delivery	Nm³/h	58/156÷442	93/209÷523	116/290÷605
Net calorific value LPG gas	kWh/Nm³	25.8		
LPG gas density	kg/Nm³	2.02		
LPG gas delivery	Nm³/h	--	--	--
Fan	type	Reverse curve blades		
Air temperature	max °C	60		
ELECTRICAL DATA				
Electrical supply	Ph/Hz/V	3N ~ 50 / 230-400V (±10%)		
Auxiliary electrical supply	Ph/Hz/V	1/50/230 ~ (±10%)		
Control box	type	(01)		
Total electrical power	kW	6	9	11
Auxiliary electrical power	kW	--		
Protection level	IP	54		
Motor electrical power	kW	4.5	7.5	9.2
Rated motor current	A	15.8 – 8.7	13.8 – 8	16.9 – 9.7
Motor start up current	A	7 x In		8.1 x Nom
Motor protection level	IP	54	55	
Ignition transformer	type	--		
	V1 – V2	230V – 1 X 8 kV		
	I1 – I2	1 A – 20 mA		
Operation		FS1 – Intermittent (at least one stop every 24 h) FS2 Continuous (at least one stop every 72 h)		
EMISSIONS				
Sound pressure	dB(A)	82	85	88
Sound power	dB(A)	93	96	99
CO emission	mg/kWh	< 10		
NOx emission	mg/kWh	< 80		
APPROVAL				
Directive		2006/42/EC – 2009/142/EC – 2014/30/UE – 2014/35/UE		
Conforming to		EN 676		
Certification		CE 0085BR0480	CE 0085BR0481	CE 0085B00341

(01) RMG/M (for intermittent operation) – LGK16 (for continuous operation)

(02) LFL1... (for intermittent operation) – LGK16 (for continuous operation)

Reference conditions:

Temperature: 20°C – Pressure: 1013,5 mbar – Altitude: 0 m a.s.l. – Noise measured at a distance of 1 meter.
Sound pressure measured in manufacturer's combustion laboratory, with burner operating on test boiler and at maximum rated output. The sound power is measured with the "Free Field" method, as per EN 15036, and according to an "Accuracy: Category 3" measuring accuracy, as set out in EN ISO 3746.

MODEL		RS 650/M BLU	RS 800/M BLU	RS 1000/M BLU	RS 1200/M BLU
Burner operation mode		Progressive two-stage or modulating			
Modulation ratio at max. output		5 ÷ 1		7 ÷ 1	
Servomotor	type	LKS 310 (FS1 version) – SQM10.16 (FS2 version)			
	run time s	--			
Heat output	kW	1410/3020÷6500	1200/3500÷8100	1100/4000÷10100	1500/5500÷11100
	Mcal/h	1230/2580÷5633	1032/3010÷6966	946/3440÷8686	1290/4730÷9546
Working temperature	°C min./max.	0/50			
FUEL/AIR DATA					
Net calorific value G20 gas	kWh/Nm³	10			
G20 gas density	kg/Nm³	0.71			
G20 gas delivery	Nm³/h	143/300÷655	120/350÷80	50/135÷380	80/180÷450
Net calorific value G25 gas	kWh/Nm³	8.6			
G25 gas density	kg/Nm³	0.78			
G25 gas delivery	Nm³/h	166/349÷762	139/407÷942	58/156÷442	93/209÷523
Net calorific value LPG gas	kWh/Nm³	25.8			
LPG gas density	kg/Nm³	2.02			
LPG gas delivery	Nm³/h	55.4/116.3÷253.9	--	--	
Fan	type	Forward curve blades		Reverse curve blades	
Air temperature	max °C	60			
ELECTRICAL DATA					
Electrical supply	Ph/Hz/V	3N/50/230-400 (±10%)			
Auxiliary electrical supply	Ph/Hz/V	1/50/230 ~ (±10%)			
Control box	type	(01)		(02)	
Total electrical power	kW	21.4	24	24	27
Auxiliary electrical power	kW	--			
Protection level	IP	54			
Motor electrical power	kW	18.5	22	22	25
Rated motor current	A	33.3 – 19.2	38.6 – 22.3	39 – 24	44.1 – 25.5
Motor start up current	A	--	6 x Nom	7 x In	
Motor protection level	IP	54			
Ignition transformer	type	--			
	V1 – V2	230V – 1 x 8 kV		230V – 2x5 kV	
	I1 – I2	1A – 20mA		1.9A – 35mA	
Operation		Intermittent (at least one stop every 24 h) or Progressive two-stage or modulating by kit			
EMISSIONS					
Sound pressure	dB(A)	90,1	88,1	85	89,3
Sound power	dB(A)	104,3	102,5	99	99,7
CO emission	mg/kWh	< 10			
NOx emission	mg/kWh	< 80			
APPROVAL					
Directive		2006/42/EC – 2009/142/EC – 2014/30/UE – 2014/35/UE			
Conforming to		EN 676			
Certification		CE-0085BT0337		CE-0085CN0120	

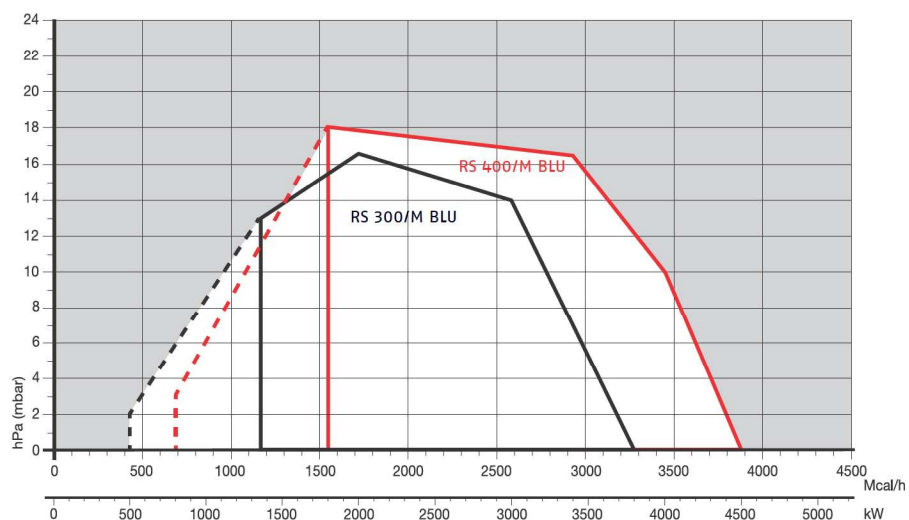
(01) RMG/M (for intermittent operation) - LGK16 (for continuous operation)

(02) LFL1... (for intermittent operation) - LGK16 (for continuous operation)

Reference conditions:

Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l. - Noise measured at a distance of 1 meter.
 Sound pressure measured in manufacturer's combustion laboratory, with burner operating on test boiler and at maximum rated output. The sound power is measured with the "Free Field" method, as per EN 15036, and according to an "Accuracy: Category 3" measuring accuracy, as set out in EN ISO 3746.

Firing Rates



Useful working field
for choosing the
burner



Modulation range

Test conditions
conforming to EN676
Temperature: 20°C
Pressure: 1013,5 mbar
Altitude: 0 m a.s.l.

