

TS0027UK04

Riello 40 FS Series

One Stage Gas Burners



FS3	11 ÷	35 kW
FS5	23 ÷	58 kW
FS8	46 ÷	93 kW
FS10	42 ÷	116 kW
FS20	81 ÷	220 kW

The Riello 40 FS series of one stage gas burners, is a complete range of products developed to respond to any request for light industrial application. The Riello 40 FS series is available in five different models, with an output ranging from 11 to 220 kW, divided in four different structures.

All the models use the same components designed by Riello for the Riello 40 FS series. The high quality level guarantees safe working.

The Riello 40 FS burners are fitted with a microprocessor - based flame control panel, with diagnostic functions.

In developing these burners, special attention was paid to reducing noise, to the ease of installation and adjustment, to obtaining the smallest size possible to fit into any sort of boiler available on the market.

All the models are approved by the EN 676 European Standard and conform to European Directives for EMC, Low Voltage, Machinery and Boiler Efficiency.

All the Riello 40 FS burners are tested before leaving the factory.



Technical Data

MODEL		FS3	FS5	FS8	FS10	FS20
Burner operation mode		One stage				
Modulation ratio at max. output		--				
Servomotor	type	--				
	run time s	--				
Heat output	kW	11 - 35	23 - 58	46 - 93	42 - 116	81 - 220
	Mcal/h	9,5 - 30	20 - 50	40 - 80	36 - 100	70 - 189
Working temperature	°C min./max.	0/40				
FUEL/AIR DATA						
Net calorific value G20 gas	kWh/Nm ³	10				
Density gas G20	kg/Nm ³	0,71				
Output gas G20	Nm ³ /h	1,1 - 3,5	2,3 - 5,8	4,6 - 9,3	4,2 - 11,6	8,1 - 22
Net calorific value G25 gas	kWh/Nm ³	8,6				
Density gas G25	kg/Nm ³	0,78				
Output gas G25	Nm ³ /h	1,3 - 4	2,7 - 6,7	5,3 - 10,8	4,9 - 13,4	9,5 - 25,6
Net calorific value LPG gas	kWh/Nm ³	25,8				
Density LPG gas	kg/Nm ³	2,02				
Output LPG gas	Nm ³ /h	0,4 - 1,4	0,9 - 2,2	1,8 - 3,6	1,6 - 4,4	3,1 - 8,5
Fan	Type	Centrifugal with forward curve blades				
Air temperature	Max. °C	40				
ELECTRICAL DATA						
Electrical supply	Ph/Hz/V	1/50/230 ±10%				
Auxiliary electrical supply	Ph/Hz/V	--				
Control box	Type	MG 557/5	MG 557/3		RMG 88.620A2	
Total electrical power	kW	0,100	0,110	0,130	0,130	0,250
Auxiliary electrical power	kW	--				
Protection level	IP	X0D				
Motor electrical power	kW	0,09	0,09	0,09	0,09	0,15
Rated motor current	A	0,6	0,65	0,7	0,7	1,4
Motor start current	A	2,4	2,6	2,8	2,8	5,6
Motor protection level	IP	20				
Ignition transformer	type	Incorporated in the control box			Separated from the control box	
	V1 - V2	(-) - 8 kV			230 V - 8 kV	
	I1 - I2	(-) - 12 mA			1,8 A - 30 mA	
Operation		Intermittent (at least one stop every 24 h)				
EMISSIONS						
Sound pressure	dB(A)	56	60	66	67	73
Sound output	W	--				
CO Emission	mg/kWh	< 40				
NOx Emission	mg/kWh	≤ 120				
APPROVAL						
Directive		90/396/EEC, 89/336 (2004/108), 73/23 (2006/95), 98/37/EEC, 92/42/EEC				
Conforming to		EN 676				
Certification		CE - 0063 AP6680				

Reference conditions:

Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l. - Noise was measured in the boiler room behind the burner at a distance of 1 meter.

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