



Overview

RLS/E-EV series burners are characterised by a modular monoblock structure that means all necessary components can be combined in a single unit thus making installation easier, faster and, above all, more flexible. The series covers a firing range from 7500 to 18500 kW, and they have been designed for use in hot water boilers, overheated water boilers as well as steam boilers. Operation on RLS 1300-1600-2000/E-/EV series is fully "modulating". The burner can, therefore, supply with precision the demanded power, guaranteeing an high efficiency system level and the stability setting, obtaining fuel consumption and operating costs reduction. The innovative combustion head, adjustment system ensures perfect movement during modulation as well as reducing noise and pollutants.





Technical Data

MODEL			RLS 1300 RLS 1600 RLS 2000					
Burner operation mode			Progressive two-stage or modulating					
Modulatio	on ratio at max. c	output	1 ÷ 4 (oil) 1 ÷ 5 (gas)					
Corvomot	or	type	SQM48.4 (Oil and Gas)					
Servomotor —		run time s	30s / 90°					
Heat outr		kW	2400/7500 ÷ 12500	3700/11500 ÷ 18500				
Heat output		Mcal/h	2064/6450 ÷ 10750	2666/4730 ÷ 13330	3182/9890 ÷ 15910			
	emperature	°C min./max.		0/60				
FUEL/AIR DA	±							
	net calorific value	kWh/kg		11,86				
Light oil	viscosity at 20°C	mm2/s (cSt)		4 ÷ 6				
	output	kg/h	202/632 - 1060	261/801 - 1307	312/970 - 1560			
Pump	typ			VB				
	output	kg/h		2970 (at 30 bar)				
	le pressure	bar		25 ÷ 30				
Fuel temp		rated °C		20				
Fuel pre-				NO				
G20 gas	net calorific value	kWh/Nm3		10				
uzu gas	gas density	kg/Nm3		0,71				
	gas delivery	Nm3/h	240/750 ÷ 1250	310/950 ÷ 1550	370/1150 ÷ 1850			
625	net calorific value	kWh/Nm3	8,6					
G25 gas	gas density	kg/Nm3		0,78				
	gas delivery	Nm3/h	279/872 ÷ 1453	360/1105 ÷ 1802	430/1337 ÷ 2151			
LDC	net calorific value	kWh/Nm3		25,8				
LPG gas	gas density	kg/Nm3		2,02				
	gas delivery	Nm3/h	93/291 ÷ 484	120/368 ÷ 601	143/446 ÷ 717			
Fan	-	type	Backward blades					
Air tempe	rature	max °C		60				
ELECTRICAL D								
Electrical		Ph/Hz/V	3N/400/50 (±10%)					
Auxiliary	electrical supply	Ph/Hz/V		1/230/50 ~ (±10%)				
Control b	OX .	type E/EV		LMV 51.1 / LMV 52.2				
	trical power	kW	36 (oil) / 32 (gas)	42 (oil) / 39 (gas)	51 (oil) / 47 (gas)			
	electrical power	kW						
	lectrical power	kW		-				
Protectio		IP		54				
	electrical power	kW	30	37	45			
Fan	rated current	Α	55 - 32	68 - 40	80 - 46			
motor	utilization category	Α		SC-3 (IEC 60947-4-1)				
	protection level	IP	54					
Ignition t	rancformer	V1 - V2		230V - 1 x 8 kV				
ignition t	ransformer	l1 - l2	1 A - 20 mA					
Operation	Operation		Intermittent (at least one stop every 24 h) or Continuous					

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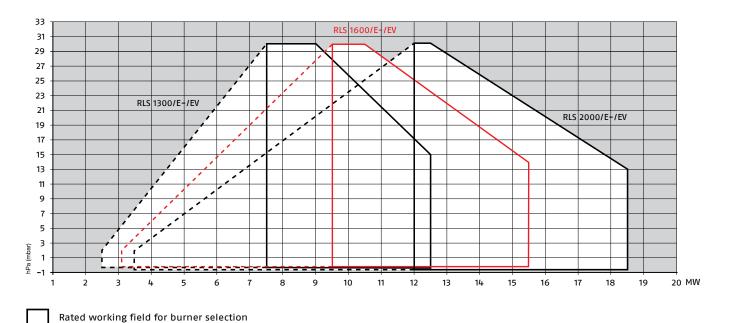
MODEL			RLS 1300	RLS 1600	RLS 2000		
EMISSIONS							
Noise	sound pressure	dB (A)	90	91	93		
levels	sound power	W	101	102	104		
	CO emission	mg/kWh		< 10			
Light oil	grade of smoke indicator	N° Bacharach	< 2				
	CxHy emission	mg/kWh	< 2				
	N0x emission	mg/kWh	< 250				
Communication CO emission mg/kWh		mg/kWh	< 10				
Gas G20 NOx emission mg/kWh		< 200					
APPROVAL							
Directive			2006/42 - 2009/142 - 2004/108 - 2006/95 EC				
Conforming to			EN 267 - EN 676				
Certificat	ion		In progress				

Reference conditions:

Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l. - Noise measured at a distance of 1 meter.

Firing Rates

RLS 1300-1600-2000/E - /EV



Modulation range

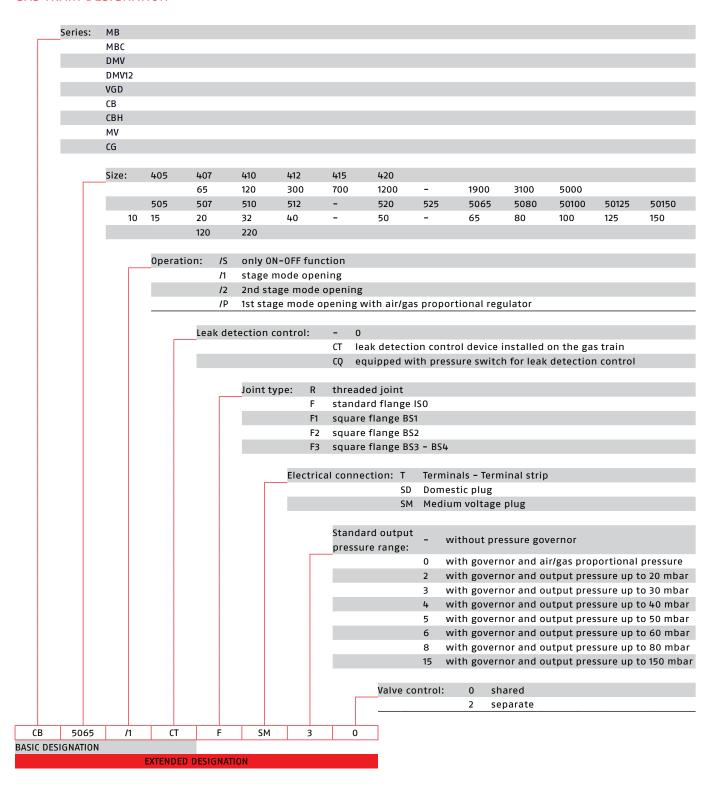
Test conditions conforming to EN676 Temperature: 20°C Pressure: 1013,5 mbar Altitude: 0 m a.s.l.

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Gas Train Specification

GAS TRAIN DESIGNATION



GAS TRAINS

The burners are fitted with a butterfly valve to regulate the fuel, controlled by the main management module of burner through a high precision servomotor.

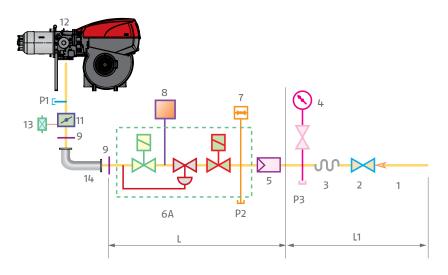
Fuel can be supplied either from the right or left sides, on the basis of the application requirements.

A maximum gas pressure switch stops the burner in case of excess pressure in the fuel line.

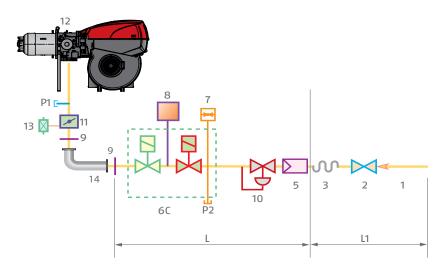
The gas train can be selected to best fit system requirements depending on the fuel output and pressure in the supply line.

The gas trains are with or without seal control.

MBC "FLANGED"

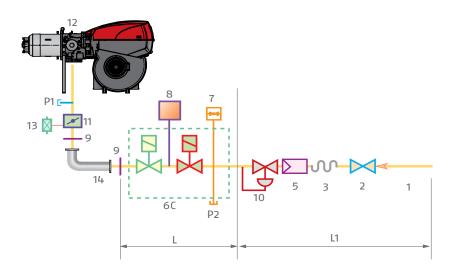


CB "FLANGED OR THREADED"

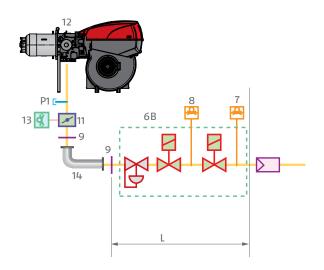


1	Gas input pipework
2	Manual valve
1 2 3 4	Anti-vibration joint
4	Pressure gauge with pushbutton
	cock
5	Filter
6A	Filter Includes:
	 operation valve
	- safety valve
	 pressure adjuster
6B	
	operation valve + pressure adjuster (SKP25)
	- safety valve (SKP 15)
	- pressure adjuster
6C	Includes:
	- operation valve
	 safety valve
7	Minimum gas pressure switch
8	Leak detection device, supplied as an
	accessory or incorporated, based on
	the gas train code.
9	Gasket, for "flanged" versions only
10	Pressure adjuster
11	Gas adjuster butterfly valve
12	Burner
13	Maximum gas pressure switch
14	Gas train-burner adaptor, supplied
	separately
P1	Combustion head pressure
P2	
<u>P3</u>	Upstream pressure of the filter
L	Gas train supplied separately, with
	the code given in the table
<u>L1</u>	Installer' responsability

DMV "FLANGED"



VGD "FLANGED"



1	Gas input pipework
1 2 3 4	Manual valve
3	Anti-vibration joint
4	Pressure gauge with pushbutton
	cock
5	Filter
6A	Includes:
	- operation valve
	- safety valve
	- pressure adjuster
6B	Includes:
	 operation valve + pressure adjuster (SKP25)
	- safety valve (SKP 15)
	- pressure adjuster
60	Includes:
	- operation valve
	- safety valve
7	Minimum gas pressure switch
8	Leak detection device, supplied as an
	accessory or incorporated, based on
	the gas train code.
9	Gasket, for "flanged" versions only
10	Pressure adjuster
11	Gas adjuster butterfly valve
12	Burner
13	Maximum gas pressure switch
14	Gas train-burner adaptor, supplied
	separately
P1	Combustion head pressure
P2	Upstream pressure of valves
P3	Upstream pressure of the filter
L	Gas train supplied separately, with
	the code given in the table
<u>L1</u>	Installer' responsability

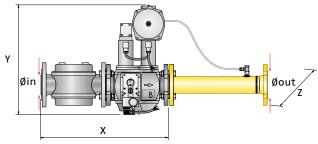
Gas trains are approved by standard EN 676 together with the burner.

The overall dimensions of the gas train depends on how they are constructed. The following table shows the maximum dimensions of the gas trains that can be fitted to RLS 1300-1600-2000/E-/EV burners, intake and outlet diameters and seal control if fitted.

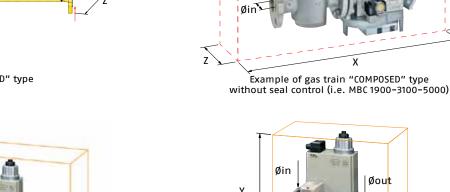
The maximum gas pressure of gas train "COMPOSED" type is 500 mbar.

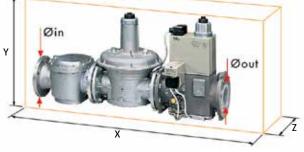
For version DN 65 and DN 80 is from 20 to 40 mbar. For version DN 100 is from 40 to 80 mbar. The range of pressure in the "MULTIBLOC" with flange can be modified choosing the stabiliser spring (see gas train accessory). The maximum gas pressure of gas train "CB" series is 500 mbar. "CB" gas train guarantees a range of pressure towards the burner from 10 to 30 mbar. The range of pressure can be modified choosing the stabilizer spring (see accessories).

The maximum gas pressure of gas train "DMV" series is 500 mbar. "DMV" gas train is supplied without pressure governor. The maximum gas pressure of gas train "VGD" series is 500 mbar. VGD guarantees a range of pressure towards the burner. Frome 15 to 150 mbar. The range can be modified choosing a different spring (see accessories).

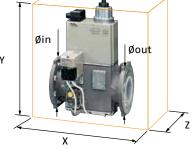


Example of gas train "VGD" type





Example of gas train "CB" series with seal control



Example of gas train "DMV" series with seal control

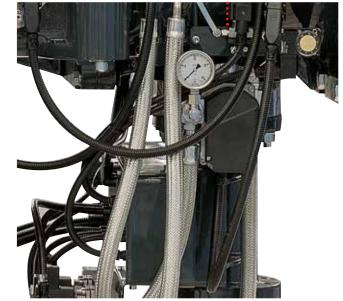
Hydraulic circuits

The burners are fitted with two valves (a safety valve and an operation valve) and an oil filter along the oil line from the pump to the nozzle.

A pressure regulator on the return circuit from the nozzle enables the quantity of fuel burnt to be varied. Two safety valves on the return circuit avoid oil leakage from the nozzle when the burner is in standby and prepurge phase.

The models are fitted with a maximum pressure switch on the oil return circuit, and a minimum oil pressure switch on the oil line from the pump to the nozzle.

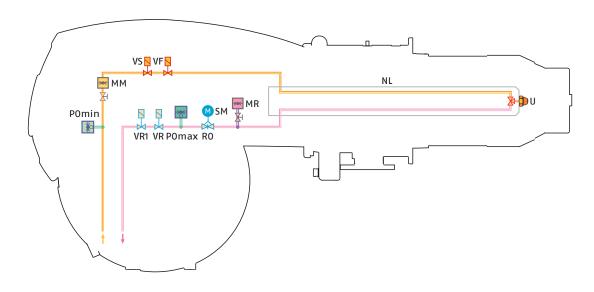
The burner is suitable for continuous operation.



Example of the RLS 1600/EV burner hydraulic circuit

P0 min	Min. oil pressure switch on the delivery
	circuit
VF	Operating valve
VS	Safety valve on the delivery circuit
MM	Pressure gauge on the delivery circuit
NL	Nozzle pipe
U	Nozzle
MR	Pressure gauge on the return circuit
SM	Servomotor
R0	Pressure regulator on the return circuit
P0 max	Max. oil pressure switch on the return
	circuit
VR	Safety valve on the return circuit
VR1	Safety valve on the return circuit

EN 267 > 100 Kg/h RLS 1300-1600-2000/E-EV



Ventilation

The ventilation unit comes with a sound proofing system. All the burners in the RLS 1300-1600-2000/E-EV series are fitted with fans, which give excellent performance and are fitted in line with the combustion head. The air flow and sound-deadening materials used in the construction are designed to reduce sound emissions to the minimum and guarantee high levels of performance in terms of output and air pressure.

A high precision servomotor through the main management module installed on each burner of RLS 1300-1600-2000/E-EV, controls the air dampers position constantly.



Example of the RLS 1600/EV sound proofing system.

Combustion Head

The innovative combustion head adjustment system ensures perfect movement during modulation as well as reducing noise and pollutants.

Simple adjustment of the combustion head allows to adapt internal geometry of the head to the output of the burner.

The same adjustment servomotor for the air damper also varies, depending on the required output, the setting of the combustion head, through a simple lever. This system guarantees excellent mix on all firing rates range.



Example of a RLS 1600/EV burner combustion head



Burner Operation Mode

Each RLS/E-EV series burner is equipped with an electronic microprocessor management panel, which controls the air damper servomotor as well the fuel servomotors.



Hysteresis is prevented by the precise control of the two servomotors and the software link by can - bus.

The high precision regulation is due to the absence of mechanical clearance normally found in mechanical regulation cams on traditional modulating burners. For the burner commissioning it is necessary to use the AZL unit display, for RLS 1300-1600-2000/E and RLS 1300-1600-2000/EV models it is included.

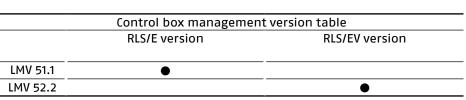
In the RLS 1300-1600-2000/E-/EV burners, the PID regulator to control the boiler temperature or pressure is included in the control box. The burner can work for a long time on intermediate output settings (see picture A).

In the RLS/EV series variable speed drive control (VDS) and 0xygen control are obtained by installation of a special kit. The display operating unit (AZL) is already on board.

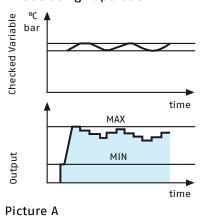
The display and operating unit (AZL) shows all operational parameters in real time, so as to keep a constant check on the burner:

- servomotor angle
- required set-point and actual set-point
- fuel consumption (RLS/EV)
- smoke and environmental temperature (RLS/EV)
- 02 value (RLS/EV)
- error checking, self diagnostic fault analysis.

Function	LMV 51 .1	LMV 52.2
Intermittent operation		•
Continuos operation		•
Intermittent operation flame detector	Infrared Detector	Infrared Detector
Continuos operation flame detector	Infrared Detector	Infrared Detector
Numbers of regulating stepper actuators	4	5
Variable Speed Drive (VSD)	-	0
Input 02 probe	_	0
Built in 02 regulator	_	0
Single fuel operation	•	•
Double fuel operation (different timing for oil and gas)	•	•
Gas valve proving system	•	•
Built in temperature pressure PID regulator	•	•
External analog modulation	on demand	•
Analog input signal for preset load	•	•
Analog 4÷20 mA output load signal	•	•
Efficency Indication	-	0
External e-Bus Interface (AZL)	•	•
Commissioning PC Interface (AZL)	0	0
Commissioning Interface Display (AZL)	•	•



"Modulating" operation



Included in supplyAs accessory

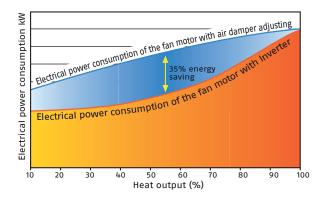
FAN SPEED CONTROL (ON DEMAND)

The inverter device fitted to the RLS/EV series burner acts on the electrical supply frequency of the fan motor to adjust the air flow through the motor speed variation.

The main advantages of speed control:

- lower sound emissions
- electric power saving.

The fan motor supplies just the necessary air flow, thus reducing sound emissions and avoiding energy loss due to the air damper regulation mechanism. The inverter technology can save up to 35% of the energy costs. A safety device to verify the correct speed of the motor is mounted on the air suction circuit of the burner.

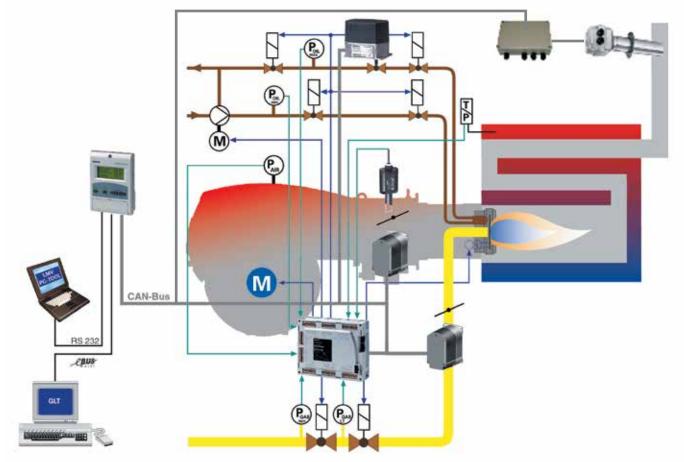


BURNER MANAGEMENT SYSTEM

The new electronic cam is a microprocessor based burner management system with matching system components for the control and supervision of forced draft burners.

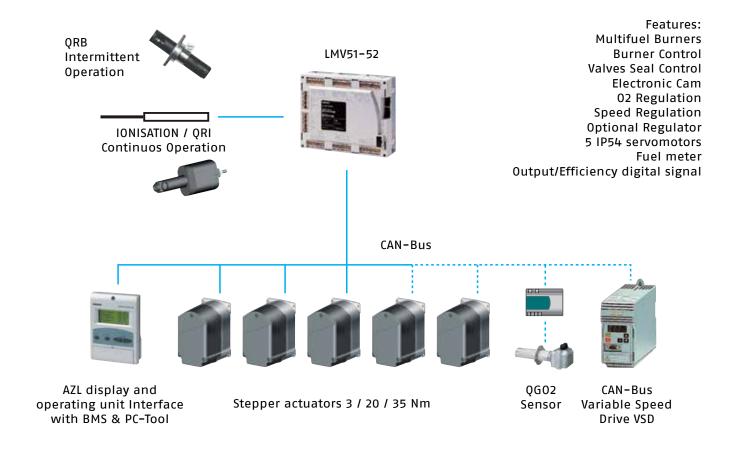
The system components are interconnected via a bus system.

Communication between the individual bus users takes place via a reliable system-based data bus. All safety-related digital outputs of the system are permanently monitored via e contact feedback network.



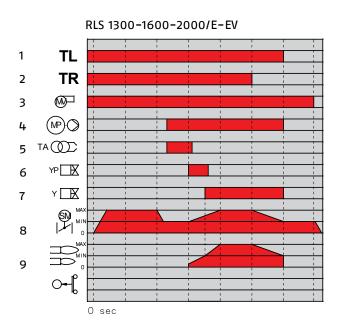
Example of burner management system in dual fuel burner configuration

ELECTRONIC CAM PLATFORM



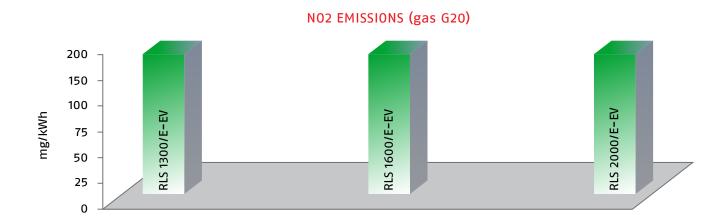
Operation

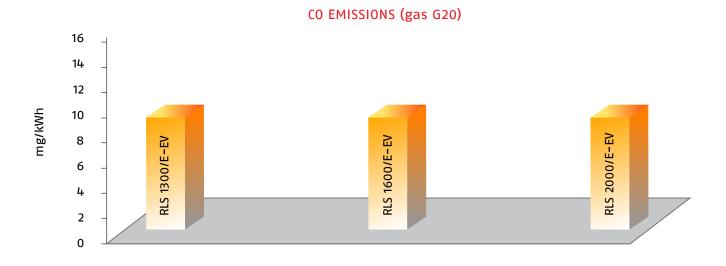
START UP CYCLE

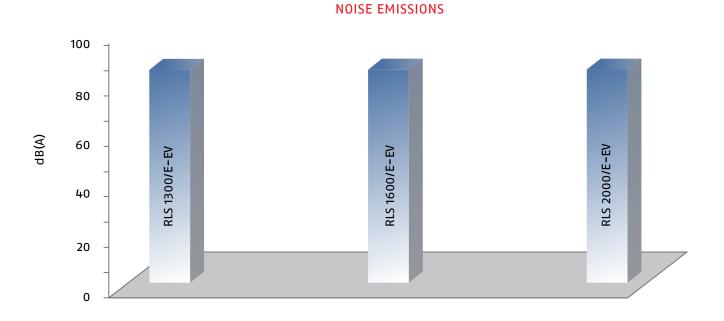


- 1 Closing thermostat
- 2 Closing thermostat
- 3 Fan motor working
- 4 Pump motor working
- 5 Ignition transformer
- 6 Valves open
- 7 Valves open
- 8 Actuators
- 9 Flame max. min.

Emission





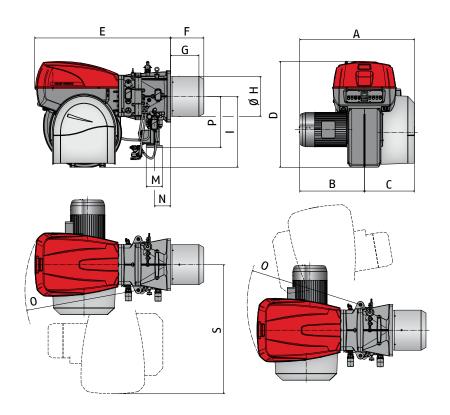


The noise emissions have been measured at the maximum output.



Overall Dimensions (mm)

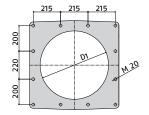
BURNER



BURNER - BOILER MOUNTING FLANGE

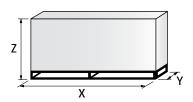
MODEL	Α	В	С	D	Е	F	G	Н	T	М	N	0	Р	S
RLS 1300/E-EV	1495	815	680	1433	1840	450	384	456	960	DN100	212	1540	695	1750
RLS 1600/E-EV	1540	860	680	1433	1840	450	384	456	960	DN100	212	1540	695	1750
RLS 2000/E-EV	1555	875	680	1433	1840	450	384	545	960	DN100	212	1540	695	1750

BURNER - BOILER MOUNTING FLANGE



MODEL	D1
RLS 1300/E-EV	560
RLS 1600/E-EV	560
RLS 2000/E-EV	560

PACKAGING



MODEL	Х	Υ	Z	kg
RLS 1300/E-EV	2600	1710	1650	850
RLS 1600/E-EV	2600	1710	1650	900
RLS 2000/E-EV	2600	1710	1650	950

Burner accessories

NOZZLES



The nozzles must be ordered separately. The following table shows the features and codes on the basis of the maximum required fuel output.

BURNER	NOZZLE TYPE	RATED DELIVERY (kg/h)	NOZZLE CODE
RLS 1300-1600-2000/E-EV	22 N1 45°	700	20091731
RLS 1300-1600-2000/E-EV	22 N1 45°	750	20091732
RLS 1300-1600-2000/E-EV	22 N1 45°	800	20091733
RLS 1300-1600-2000/E-EV	22 N1 45°	850	20091734
RLS 1300-1600-2000/E-EV	22 N1 45°	900	20091735
RLS 1300-1600-2000/E-EV	22 N1 45°	950	20091736
RLS 1300-1600-2000/E-EV	22 N1 45°	1000	20091737
RLS 1300-1600-2000/E-EV	22 N1 45°	1100	20091738
RLS 1300-1600-2000/E-EV	22 N1 45°	1200	20091739
RLS 1300-1600-2000/E-EV	22 N1 45°	1300	20091740
RLS 1300-1600-2000/E-EV	22 N1 45°	1400	20091741
RLS 1300-1600-2000/E-EV	22 N1 45°	1500	20091742

ACCESSORIES FOR MODULATING OPERATION



The relative temperature or pressure probes fitted to the regulator, must be chosen on the basis of the application.

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

VARIABLE SPEED DRIVE (VSD) FOR RLS/EV SERIES ONLY



The motor speed variation for the RLS/EV burners series is obtained thanks to a frequency converter: variable speed drive (VSD). It always must be ordered with RLS/EV series.

BURNER	MAX POWER (kW)	KIT CODE
RLS 1300/EV	30	20030338
RLS 1600/EV	37	3090927
RLS 2000/EV	45	3091729

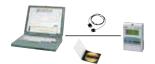
OXYGEN CONTROL KIT (QG02)



The QG02 is an oxygen analizer with relevant probe which controls and supervises the residual oxygen content in exhaust gases.

BURNER	KIT CODE
RLS 1300-1600-2000/EV	20045187

PC INTERFACE SOFTWARE (ACS 450)



PC tool for convenient programming and burner settings, process visualization, data recording, selection of AZL language, software update AZL.

BURNER	KIT CODE
All models	3010388

KIT EFFICIENCY WITH OXYGEN CONTROL KIT (FOR RLS/EV ONLY)



The kit includes two temperature sensors: one for air and one for exhaust gas detection. They must be wired to oxygen control kit interface to allow the LMV 52 efficiency calculation. The value is showed on AZL display.

BURNER	KIT CODE
All models	3010377 (*)

(*) Probe type PT 1000 - range -80°C + 600°C

LPG KIT



For burning LPG gas, a special kit is available to be fitted to the combustion head on the burner.

BURNER	KIT CODE
RLS 1300-1600-2000/E-EV C13	in progress

(*) Certification in progress, CE approval on field is required

DISPLAY AND OPERATING UNIT (AZL)

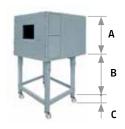


This tool is needed for combustion system commissioning and monitoring. The AZL, Display and Operating Unit, is included in RLS 1300-1600-2000/E and RLS/EV models.

BURNER	KIT CODE
All models	3010469 (*)

(*) for Russian market only

SOUND PROOFING BOX



If noise emission needs reducing even further, sound-proofing boxes are available.

In case of generator heights, where a lower dimension "B" is required, ask for the Box Support Kit code.

BURNER	BOX TYPE	A (mm) MIN-MAX	B (mm)	C (mm)	[dB(A)] (*)	BOX CODE
RLS 1300-1600-2000/E-EV	C8	1495 - 1555	1500	110	10	NEW

(*) Average noise reduction according to EN 15036-1 standard



Gas train accessories

ADAPTERS

In certain cases, an adapter must be fitted between the gas train and the burner, when the diameter of the gas train is different from the set diameter of the burner.

Below are given the available adapters; please see on the Gas Train list the correct adapter codes to select.

ADAPTER	DIMENSIONS					ADAPTER CODE
	Ø١	Ø2	Α	В	С	
Ø2	DN	DN	mm	mm	mm	
	65	100	230	-	-	NEW
Ø1	80	100	230	-	-	NEW
A	100	100	230	-	-	NEW
	125	100	230	-	-	NEW

STABILISER SPRING



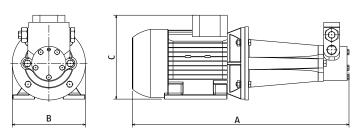
To vary the pressure range of the gas train stabilisers, accessory springs are available. The following table shows these accessories with their application range. Please refer to the technical manual for the correct choice of spring.

GAS TRAIN	SPRING COLOUR	SPRING PRESSURE RANGE mbar	SPRING CODE	
	White	4 - 20	3010381	
MBC 1900/1 - 3100/1	Red	20 - 40	3010382	
MBC 5000/1	Black	40 - 80	3010383	
•	Green	80 - 150	3010384	
	Red	25 - 55	3010133	
6D -04-14 -000/4	Black	60 - 110	3010135	
CB 5065/1 - 5080/1	Pink	100 - 150	3090456	
	Grey	140 - 200	3090992	
	Red	 25 - 55	3010134	
CD F0400/4	Black	60 - 110	3010136	
CB 50100/1	Pink	100 - 150	3090489	
	Grey	140 - 200	3092174	
	Red	 25 - 55	3010315	
CD =042=14	Yellow	30 - 70	3010316	
CB 50125/1	Black	60 - 110	3010317	
	Pink	100 - 150	3010318	
VCD 00 100 125 150	Yellow	15 - 120	Standard on board	
VGD 80, 100, 125, 150	Red	100 - 250	(2541086)	

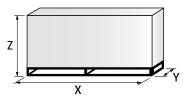
Pumping Unit

GP SERIES

OVERALL DIMENSIONS (mm) - PACKAGING



MODEL	A	В	С
GP 2200	680	230	270
GP 3000	680	230	270
GP 3600	740	270	310
SG 4800	740	270	310



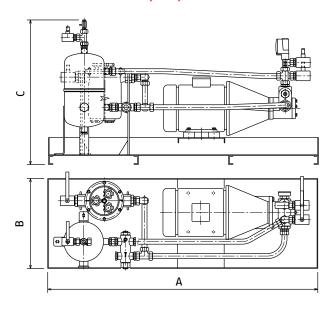
MODEL	Х	Υ	Z
All models	800	330	260

CODE	MODELS	FUEL	PORT	DELIVERY at 30 mbar	MOTOR (kW)	MAX DELIVERY (kg/h)
3091137	GP 2200	LIGHT OIL	1"	2200 l/h	4	900
20098505	GP 3000	LIGHT OIL	1"	3000 l/h	4	12500
3093218	GP 3600	LIGHT OIL	1"	3600 l/h	5.5	1500
20098507	GP 4800	LIGHT OIL	1"	4800 l/h	7.5	2000

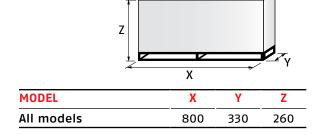
Pumping Unit Skids

SG SERIES

OVERALL DIMENSIONS (mm) - PACKAGING



MODEL	Α	В	С
All models	1500	500	803



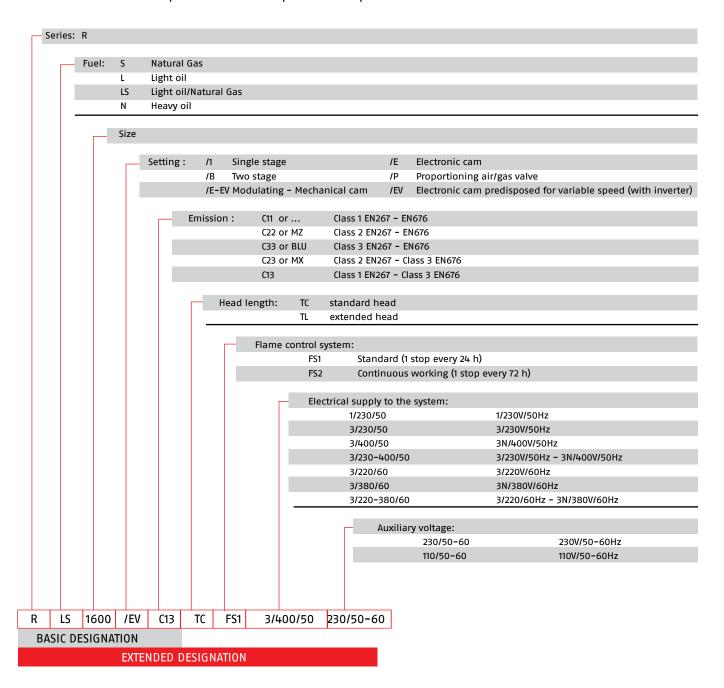
CODE	MODELS	FUEL	PORT	DELIVERY at 30 mbar	MOTOR (kW)	MAX DELIVERY (kg/h)
20097693	SG 1000	LIGHT OIL	1"	2200 l/h (*)	4	900
20098501	SG 1250	LIGHT OIL	1"	3000 l/h (*)	4	1250
20097701	SG 1500	LIGHT OIL	1"	3600 l/h (*)	5.5	1500
20097703	SG 2000	LIGHT OIL	1"	4800 l/h (*)	7.5	2000



Specification

DESIGNATION OF SERIES

A specific index guides your choice of burner from the various models available in the RLS/E-EV series. Below is a clear and detailed specification description of the product.



BURNER MODELS	HEAD LENGTH	FLAME CONTROL SYSTEM	ELECTRICAL SUPPLY	AUXILIARY VOLTAGE
RLS 1300/E C11	TC	FS1-FS2	3/400/50	230/50-60
RLS 1600/E C11	TC	FS1-FS2	3/400/50	230/50-60
RLS 2000/E C11	TC	FS1-FS2	3/400/50	230/50-60
RLS 1300/EV C11	TC	FS1-FS2	3/400/50	230/50-60
RLS 1600/EV C11	TC	FS1-FS2	3/400/50	230/50-60
RLS 2000/EV C11	TC	FS1-FS2	3/400/50	230/50-60

Other versions are available on request.

PRODUCT SPECIFICATION

Burner

Monoblock forced draught gas burner with modulating operation, fully automatic, made up of:

- Fan with low sound emissions
- Air suction circuit lined with sound-proofing material
- Air damper for air setting controlled by a high precision servomotor
- Air pressure switch
- Fan starting motor at 2800 rpm, three-phase 230/400 400/690 V with neutral, 50Hz
- Separate light oil pump
- 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
- ignition gas pilot with gas train for RLS 1300-1600-2000
- flame stability disk
- Maximum gas pressure switch, with pressure test point, for halting the burner in the case of over pressure on the fuel supply line
- Electronic cam for controlling the system safety
- Infrared flame detector
- Display unit AZL... for RLS 1300-1600-2000/E-EV models
- Star/triangle starter for the fan motor
- Main electrical supply terminal board
- Burner on/off switch
- Auxiliary voltage led signal
- Burner working led signal
- Contacts motor and thermal relay with release button
- Motor internal thermal protection
- Motor failure led signal
- Burner failure led signal and lighted release button
- Emergency button
- Connection plugs-sockets
- Burner opening hinge
- Lifting rings
- IP 54 electric protection level
- Gears pump for high pressure fuel supply
- Pump starting motor
- Oil safety valves
- Valve system with double oil safety valve on the output circuit and double safety valve on the return circuit
- Oil/Gas selector
- Flame inspection window.



Gas train:

Fuel supply line in the Composed configuration (from a diameter of DN 65 to a diameter of DN 125) fitted with:

- Filter (not in "VGD" series)
- Stabilizer
- Minimum gas pressure switch
- Safety valve
- One stage working valve with ignition gas output regulator

Note: valve seal control already present inside burner control box.

Conforming to:

- 2004/108/EC directive (electromagnetic compatibility)
- 2006/95/EC directive (low voltage)
- 2006/42/EC directive (machine)
- 2009/142 directive (gas)
- EN 676 (gas burners)
- EN 267 (light oil burners).

Standard equipment:

- 1 flange gasket
- 4 screws for fixing the flange
- 1 thermal screen
- 4 screws for fixing the burner flange to the boiler
- 2 flexible pipes for connection to the oil supply network
- 2 nipples for connection to the pump with gaskets
- Seal control
- Seal control pressure switch (for installation on gas train)
- Instruction handbook for installation, use and maintenance
- Spare parts catalogue.

Available accessories to be ordered separately:

- Nozzle
- Temperature probe -100 ÷ 500°C
- Pressure probe 0 ÷ 2.5 bar
- Pressure probe 0 ÷ 16 bar
- Pressure probe 0 ÷ 25 bar
- Variable speed drive (VSD) for /EV models
- Oxygen control kit
- PC interface software (ACS 450)
- Kit efficiency for /EV models
- LPG kit
- Display and operating unit (AZL)(included in /E-/EV models)
- Sound proofing box
- Gas train adapters
- Spring.

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



[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.

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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