

RLS/E MX 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 600 to 4500 kW, and they have been designed for use in hot water boilers, overheated water boilers as well as steamboilers. Operation can be "two stage progressive" or alternative "modulating" with the installation of a PID logic regulator. 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.

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TECHNICAL DATA

ſ	Model			▼ RLS 300/E MX	▼ RLS 400/E MX			
	Burner opera	tion mode		two stages progress	sive/modulating			
	Modulation r	atio at max. output		1 ÷ 4	L			
	Servomotor		type	SQM 48 (OIL a	and GAS)			
	Cervolliotor	run time	s					
	Heat output		kW	600/1250 ÷ 3650	1000/2000 ÷ 4500			
	near output		Mcal/h	516/1075-3139	860/1720-3870			
	Working tem	perature	°C min./max.	0/60				
		net calorific value	kWh/kg	11,86				
	Light Oil	density	kg/l	0,82				
	Light On	viscosity at 20°C	mm²/s (cSt)	4-6				
		delivery	kg/h	50/105-308	84/169-380			
	Pump		type	TA4				
	rump	delivery	kg/h	870 (20	bar)			
	Atomised pro	essure	bar	12				
	Fuel temperature		max. °C	50				
Ita	Fuel pre-heater			NO				
r dê		net calorific value	kWh/Nm ³	10				
/ai	G20	density	kg/Nm ³	0,71				
lei		gas delivery	Nm³/h	60/125-365	100/200-450			
Ē		net calorific value	kWh/Nm ³	8,6				
	G25	density	kg/Nm ³	0,78				
-		gas delivery	Nm³/h	70/145-424	116/232-523			
		net calorific value	kWh/Nm ³					
	LPG	density	kg/Nm ³					
		gas delivery	Nm³/h					
	Fan		type	reverse blade fan wheels				
	Air temperature		max °C	60				
	Electrical sup	ply	Ph/Hz/V	3/50/400 (:	±10%)			
	Auxiliary elec	ctrical supply	Ph/Hz/V	1/50/430 (±10%)				
	Control box		type					
		al power	kVV	6,5	9,5			
	Auxiliary elec	ctrical power	KVV	2				
	Protoction lo	rical power						
	Pump motor	electrical power		54				
data	Rated nump	motor current	A	37				
al	Pump motor	start un current	^	7xin				
itric	Pump motor	protection level	IP	54				
Elec	Fan motor el	ectrical power	ii kW	45	7.5			
	Rated fan mo	otor current	A	9.1-15.8	17.5 - 30			
	Fan motor st	art up current	A	51-86	113 - 195			
	Fan motor pr	otection level	IP	54				
			type	N.A.				
	Ignition trans	sformer	V1 - V2	230 V - 2 x	c 5 kW			
	-		1 - 2	1,9 A - 35	5 mA			
	Working			intermittent (1 st	op each 24 h)			
	Sound press	ure	dB (A)	83	85			
	Sound powe	r	w	N.A.				
s		CO emission	mg/kWh	< 10	l de la construcción de la constru			
sion	Links O'l	grade of smoke indicator	N° Bacharach	< 2				
mis	Light Oil	CxHy emission	mg/kWh	<2				
Ē		NOx emission	mg/kWh	< 185	5			
	C20	CO emission	mg/kWh	< 10				
	320	NOx emission	mg/kWh	< 80				
val	Directive			90/396 - 89/336	- 73/23 EEC			
pro	Conforming	to		EN 267 - E	N 676			
Ap	Certification			CE in pro	gress			

Reference conditions: Temperature: 20°C - Pressure: 1000 mbar - Altitude: 100 m a.s.l. - Noise measured at a distance of 1 meter.

Since the Company is constantly engaged in the production improvement, the aesthetic and dimensional features, the technical data, the equipment and the accessories can be changed.

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Useful working field for choosing the burner

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Firing rate in progress

Test conditions conforming to EN 676: Temperature: 20°C Pressure: 1000 mbar Altitude: 100 m a.s.l.







FUEL SUPPLY

GAS TRAIN

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 "Composed" type (assembly of the single components) without seal control. This function is included in the burner management module.



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Example of the RLS/E MX gas adjustment butterfly valve equipped with an adapter type "L".

MULTIBLOC gas train type MBC 1200



COMPOSED gas train



1	Gas input pipework
2	Manual valve
3	Anti-vibration joint
4	Pressure gauge with pushbutton cock
5	Filter
6	Pressure regulator (vertical)
7	Minimum gas pressure switch
8	VS safety solenoid (vertical)
9	VR regulation solenoid (vertical) Two settings: - firing output (rapid opening) - maximum output (slow opening)
10	Gasket and flange supplied with the burner
11	Gas adjustment butterfly valve
12	Burner
14	Gas train-burner adapter
15	Maximum gas pressure switch
P1	Combustion head pressure
P2	Pressure downstream from the regulator
P3	Pressure upstream from the filter
L	Gas train supplied separately, with the code given in the table
L1	Installer's responsibility





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 300-400/E MX burners, intake and outlet diameters and seal control if fitted.

The maximum gas pressure of gas train "Multibloc" type is 360 mbar, and that one of gas train

"Composed" type is 500 mbar. MULTIBLOC guarantees a range of pressure toward the burner from 3 to 60 mbar. For version DN 65 and DN 80 is from 20 to 40 mbar. The range of pressure in the MULTIBLOC with flange can be modified choosing the stabiliser spring (see gas train accessory).

	Name	Code	Øi	X mm	Ymm	Zmm	Seal Control
MULTIBLOC GAS TRAINS	MBC 1200 SE 50	3970221	2″	573	161	425	(*)
	MBC 1900 SE 65 FC	3970222	DN 65	583	237	430	(*)
COMPOSED GAS TRAINS	MBC 3100 SE 80 FC	3970223	DN 80	633	240	500	(*)
	MBC 5000 SE 100 FC	3970228	DN 100	733	350	576	(*)

(*) the seal control is managed by the electronic cam LMV51

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PRESSURE DROP DIAGRAM

The diagrams indicate the minimum pressure drop of the burners with the various gas trains that can be matched with them; at the value of these pressure drop add the combustion chamber pressure. The value thus calculated represents the minimum required input pressure to the gas train.



NATURAL GAS

Gas train	Code	Adapter	Seal Control
MBC 1200 SE 50	3970221	3000826(1)	-
MBC 1900 SE 65 FC	3970222	3010221()	
MBC 3100 SE 80 FC	3970223	3010222(1)	
MBC 5000 SE 100 FC	3970228	3970223(1)	

RLS 400/E MX



Gas train	Code	Adapter	Seal Control	
MBC 1200 SE 50	3970221	3000826(1)		
MBC 1900 SE 65 FC	3970222	3010221(1)		
MBC 3100 SE 80 FC	3970223	3010222(1)		
MBC 5000 SE 100 FC	3970228	3970223(1)		

Pressure drop diagram in progress.

note Please contact the Riello Burner Technical Office for different pressure levels from those above indicated and refer to the technical manual for the correct choice of the spring.

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SELECTING THE FUEL SUPPLY LINES

The following diagram enables pressure drop in a pre-existing gas line to be calculated and to select the correct gas train.

The diagram can also be used to select a new gas line when fuel output and pipe length are known. The pipe diameter is selected on the basis of the desired pressure drop. The diagram uses methane gas as reference; if another gas is used, conversion coefficient and a simple formula (on the diagram) transform the gas output to a methane equivalent (refer to figure A). Please note that the gas train dimensions must take into account the back pressure of the combustion chamber during operations.

Control of the pressure drop in an existing gas line or selecting a new gas supply line. The methane output equivalent is determined by the formula fig. A on the diagram and the conversion coefficient.

Once the equivalent output has been determined on the delivery scale ($\mathbf{\dot{v}}$), shown at the top of the diagram, move vertically downwards until you cross the line that represents the pipe diameter; at this point, move horizontally to the left until you meet the line that represents the pipe length.

Once this point is established you can verify, by moving vertically downwards, the pipe pressure drop of on the botton scale below (mbar).

By subtracting this value from the pressure measured on the gas meter, the correct pressure value will be found for the choice of gas train.

Example:	- gas used	G25
-	- gas output	9.51 mc/h
	- pressure at the gas meter	20 mbar
	- gas line length	15 m
	 conversion coefficient 	0.62 (see figure A)
- equivalent	t methane output $\mathbf{\dot{V}} = \begin{bmatrix} 9.51\\ 0.62 \end{bmatrix}$] = 15.34 mc/h

- once the value of 15.34 has been identified on the output scale ($\check{\mathbf{V}}$), moving vertically downwards you cross the line that represents 1" 1/4 (the chosen diameter for the piping);

- from this point, move horizontally to the left until you meet the line that represents the length of 15 m of the piping;
- move vertically downwards to determine a value of 1.4 mbar in the pressure drop botton scale;
- subtract the determined pressure drop from the meter pressure, the correct pressure level will be found for the choice of gas train;

- correct pressure = (20-1.4) = 18.6 mbar





HYDRAULIC CIRCUIT

The hydraulic circuit of the RLS/E MX series of burners is characterised by a fuel pump with an independent motor. The burners have two safety valves for the light oil, one on the delivery circuit and one on the return circuit; the use of a nozzle with shut-off needle gives even further safety.

A three way valve is associated to the actuator for opening and closing the nozzle needle, and a servo-driven pressure variator on the return circuit gives utmost precision to the amount of fuel burnt.

A minimum pressure switch on the oil delivery line means that the burners are suitable, from a hydraulic point of view, for use in steam generators that correspond to TRD 604 (Germany), NBN (Belgium) standards. For further information on RLS/E MX burners series versions with "continuous operation" contact Riello Burners Technical Office.

Р	Pump with filter and pressure regulator
PO 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
A.T.	A structure for a section and all sizes the second second
AI	Actuator for opening and closing the nozzle needle
MR	Pressure gauge on the return circuit
MR SM	Pressure gauge on the return circuit Servomotor
AI MR SM RO	Actuator for opening and closing the nozzle needle Pressure gauge on the return circuit Servomotor Pressure regulator on the return circuit
AI MR SM RO PO max	Actuator for opening and closing the nozzle needle Pressure gauge on the return circuit Servomotor Pressure regulator on the return circuit Max. oil pressure switch on the return circuit
AT MR SM RO PO max VR	Actuator for opening and closing the nozzle needle Pressure gauge on the return circuit Servomotor Pressure regulator on the return circuit Max. oil pressure switch on the return circuit Safety valve on the return circuit



Example of the RLS/E MX burner hydraulic circuit



EN 267 > 100 Kg/h (TRD 604, NBN)

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SELECTING THE FUEL SUPPLY LINES

The fuel feed must be completed with the safety devices required by the local norms.

The table shows the choice of piping diameter, depending on the difference in height between the burner and the tank and their distance.

MAXIMUM EQU	IVALENT LENGTH FC	R THE PIPING	L[m]
Model	▼ RLS	/E MX	
Diameter piping	Ø1/2″	Ø 3/4″	
+H, -H (m)	L _{max} (m)	L _{max} (m)	
+2,0	25	85	
+1,5	23	80	
+1,0	20	70	
+0,5	18	65	
0	15	60	
-0,5	12	50	
-1,0	10	45	
-1,5	8	35	
-2,0	5	30	
-3,0	3	15	





b note With ring distribution oil systems, the feasible drawings and dimensioning are the responsibility of specialised engineering studios, who must check compatibility with the requirements and features of each single installation.



VENTILATION



The ventilation unit comes with a sound proofing radial regulating system.

All the burners in the RLS/E MX series are fitted with fans with

reverse curve blades, 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/E MX series, controls the air dampers position constantly, guaranteeing an optimal fuel-air mix.



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Example of a sound proofing radial regulating system



Flame dimensions

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/E MX burner combustion head

Burner thermal output = 3500 kW; L flame (m) = 3,5 m (medium value); D flame (m) = 1,5 m (medium value).

ADJUSTMENT



BURNER OPERATION MODE

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



Main management module for RLS/E MX series

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.

In the RLS/E MX series burner the standard working is two stage progressive and the PID regulator, to control the boiler temperature or pressure, is available as accessories.

For the burner commissioning the display and operating unit (AZL) is necessary whereas PID regulator is enought to visualize burner combustion data and to change the set point.

The burner can run for a long time on intermediate output settings (see fig. A).

The display and operating unit (AZL) can 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
- burner stage
- error checking, self diagnostic fault analysis.

Electronic cam management table				
Function	LMV 51			
Intermittent operation	•			
Continuos operation	•			
Intermittent operation flame detector	Ionisation Probe			
Continuos operation flame detector	Ionisation Probe / Infrared Detector			
Numbers of regulating servomotors	4			
Stepper actuators	•			
Variable Speed Drive (VSD)				
Input O ₂ probe				
Buil in O ₂ regulator				
Single fuel operation	•			
Double fuel operation (different timing for oil and gas)	•			
Gas valve proving system	•			
Built in temperature pressure PID regulator	0			
Remote Unit Control (max. distance: m.)	100			
Fuel meter				
Output Load Efficency with digital signal	•			
Efficency Indicator with capacity of flow meter				
External e-Bus Interface (AZL)	0			
Commissioning PC Interface (AZL)	0			
Commissioning Interface Display (AZL)	0			

"Modulating" operation



Figure A

Included in supply

 \bigcirc As accessory



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.

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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



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Electronic Cam Platform



START UP CYCLE

RLS 300-400/E MX



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





WIRING DIAGRAMS

Electrical connections must be made by qualified and skilled personnel, according to the local norms.



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Example of the terminal board for electrical connections

THREE PHASE SUPPLY TO THE POWER CIRCUIT AND CONNECTING THE AUXILIARY CONTROLS



CONNECTION OF THE PROBES FOR THE CONTROLLED PARAMETER AND DATA CONNECTION FOR THE VARIOUS MODULES (Accessories)



OPTIONAL CONNECTION



X1 - Main supply terminal strip RS - Remote lock-out reset button

Outside temperature

-X2

M9 B9

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BTEXT

OPTIONAL CONNECTION POWER REGULATOR





BA - DC input 0...20mA, 4...20mA BA1 - DC input 0...20mA, 4...20mA for modifying the remote setpoint BR - Resistance potentiometer BT1 - Termocouple probe BT2 - Probe with 2 wires BT3 - Probe with 3 wires BTEXT - Outside temperature BV - DC voltage input 0...1V, 0...10V for modifying the remote setpoint

 Main supply terminal strip
 Terminal strip for RWF40 connection

X1 X2











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The following table shows the supply lead sections and the type of fuse to be used.

Model		▼ RLS 300/E MX	▼ RLS 400/E MX
F	А	16 aM	25 aM
L	mm ²	4	6

Table A





The RLS/E MX series combustion head reduce polluting emissions thanks to their special design which optimises the air fuel mix.

Combustion head operating diagram of RLS/E MX series

In the RLS/E MX series part of the gas is distributed through outlets which the remaining gas is injected directly into the centre of the flame. This prevents no homogeneous concentrations in the flame with areas of high oxidation, producing very stable flame with gradual and progressive combustion as the flame develops, thus giving polluting emission values below even the most restrictive norm values.

RLS 300-400/E MX

Model	А	D	E	F	Н	I	Μ	Ν	0	S	Р
▶ RLS 300/E MX	720	890	1325	510	313	605	DN80	164	1055	1175	320
▶ RLS 400/E MX	775	890	1325	510	313	605	DN80	164	1055	1175	320

BURNER - BOILER MOUNTING FLANGE

Model	D1	D2	Ø
▶ RLS 300/E MX	380	452	M18
▶ RLS 400/E MX	380	452	M18

PACKAGING

Model	Х	Y	Z	kg
▶ RLS 300/E MX	1960	970	940	240
▶ RLS 400/E MX	1960	970	940	250

INSTALLATION DESCRIPTION

Installation, start up and maintenance must be carried out by qualified and skilled personnel. All operation must be performed in accordance with the technical handbook supplied with the burner.

After drilling the boilerplate, using the supplied gasket as template, prepare a suitable lifting system and, after hooking onto the rings, fix burner to boiler.

BURNER SETTING

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- Install the nozzle, choosing this on the basis of the maximum boiler output and following the diagrams included in the burner instruction handbook.
- Check the position of the electrodes
- Adjust the combustion head

HYDRAULIC AND ELECTRICAL CONNECTIONS AND START UP

- Install the gas train to the burner flange choosing the right adapter code if the gas train and burner hinge are situated to the same size.
- Connect the ends of the flexible pipes to the sunction and return pipework using the supplied nipples.
- Make the electrical connections to the burner following the wiring diagrams included in the instruction handbook.
- Prime the pump by turning the motor.
- Proceed with the start up regulating before the gas side, so the oil side.
- ▶ On start up, check:
 - Gas pressure at the combustion head (to the max. and min. output)
 - Pressure pump (to the max. and min.)
 - Combustion quality, in terms of unburned substances and excess air.

BURNER ACCESSORIES

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Accessories for modulating operation

To obtain modulating operation, the RLS/E MX series of burners requires a regulator with three point outlet controls. The following table lists the accessories for modulating operation with their application range.

Burner	Regulator type	Regulator code
RLS 300-400/E MX	RWF 40 Basic version with 3 position output	3010356
RLS 300-400/E MX	RWF 40 High version with additional modulating output and RS 485 Interface	3010357

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
RLS 300-400/E MX	Temperature PT 100	-100 ÷ 500°C	3010110
RLS 300-400/E MX	Pressure 4 ÷ 20 mA	0 ÷ 2,5 bar	3010213
RLS 300-400/E MX	Pressure 4 ÷ 20 mA	0 ÷ 16 bar	3010214

Display and Operating Unit (AZL)

This tool is needed for combustion system commissioning and monitoring.

The AZL has 3 ports:

- Port for the basic unit: CAN bus including power supply for the AZL
- Port for the PC
- Port for the BMS.

The AZL offer the following choices:

- Interface PC (COM1)
- Gateway BMS on
- Gateway BMS off.

The CAN connection on the basic unit can simultaneously be combined with only one of the two parts, either "Interface PC" or "Gateway BMS".

Display and Operating Unit (AZL)
Burner	Code
RLS 300-400/E MX	3010355

Sound proofing box

If noise emission needs reducing even further, sound-proofing boxes are available, as given in the following table:

Sound proofing box			
Burner	Box type	Box code	
RLS 300-400/E MX	C7	3010376	

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GAS TRAIN ACCESSORIES

Adapters

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Below are given the adapters than can be fitted on the various burners:

Adapters				
Burner	Gas train	Adapter type	Dimensions	Adapter code
RLS 300-400/E MX	MBC 1200	I	2" DN 80	3000826
	MBC 1900	I	DN 65 DN 80	3010221
	MBC 3100	I	DN 80	3010222
	MBC 5000	I	DN 100 DN 80	3010223

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:

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Stabiliser spring			
Gas train	Spring	Spring code	
MBC 1900 MBC 3100 MBC 5000	White from 4 to 20 mbar	3010381	
	Red from 20 to 40 mbar	3010382	
	Black from 40 to 80 mbar	3010383	
	Green from 80 to 150 mbar	3010384	

Please refer to the technical manual for the correct choice of spring.

SPECIFICATION

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

AVAILABLE BURNER MODELS

 RLS 300/E MX
 TC
 FS1
 3/400/50
 230/50-60

 RLS 400/E MX
 TC
 FS1
 3/400/50
 230/50-60

Other versions are available on request.

PRODUCT SPECIFICATION

Burner

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Monoblock forced draught gas burner with modulating operation, fully automatic, made up of: - Fan with reverse curve blades high performance 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
- 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 electrodes
 - 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
- Module for air/fuel setting and output modulation with separated PID control of temperature or pressure, available as accessory for RLS/E MX model
- Electronic cam for controlling the system safety
- Infrared flame detector
- Star/triangle starter for the fan motor (only for RLS 400/E MX model)
- 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
- Coded 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 unit with double oil safety valve on the output circuit and double safety valve on the return circuit
- Oil/Gas selector
- Flame inspection window.

Conforming to:

- 89/336/EEC directive (electromagnetic compatibility)
- 73/23/EEC directive (low voltage)
- 90/396/EEC directive (gas)
- EN 676 (gas 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
- Instruction handbook for installation, use and maintenance
- Spare parts catalogue.

Available accessories to be ordered separately:

- Pressure probe 0 ÷ 2.5 bar
- Pressure probe 0 ÷ 16 bar
- Temperature probe -100 ÷ 500°C
- RWF 40 for RLS/E MX
- Display and operating unit (AZL)
- Sound proofing box
- Adapter
- Stabiliser spring.

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