RS/E-EV MZ SERIES

The RS/E-EV MZ burners series covers a firing range from 44 to 2650 kW, and it is based on a new Digital Burner Management System, Riello REC27, 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 combustion and safe operation on all modulation range. Operation can be "two stage progressive" or, alternatively, "modulating" with the installation of a PID logic regulator and respective probes. RS/E MZ burners series guarantees high efficiency levels in all the various applications, thus reducing fuel consumption and running costs.
The RS 250/EV MZ model, equipped with REC37, is available to operate with **Variable Speed Drive technology** base on the control of a Frequency Inverter that modifies the air flow through the motor speed variation.
Optimisation of sound emissions is guaranteed by the special design of the air suction circuit and by **incorporated sound proofing material.**
Guidelines for installation of burners in conformity to EU Regulation:

A RIELLO burner (Heat Generator), where it is matched with a water-based boiler (Heater Housing) with a nominal output ≤ 400 kW, providing heat for heating purposes and heat to deliver sanitary hot water, can be installed:

- With boilers (heater housings) already in service in the field, for replacement of identical products, in conformity to Article 1, paragraph 2, point (G) of the EU Regulation No. 813/2013;
- With boilers (heater housings) on a new installation, if they have emissions complying with the requirement of Annex II, paragraph 4 of the EU regulation No. 813/2013.

RS 34/E MZ	44/130	÷	390	kW
RS 44/E MZ	80/200	÷	550	kW
RS 50/E MZ	85/290	÷	580	kW
RS 64/E MZ	150/400	÷	850	kW
RS 70/E	135/465	÷	814	kW
RS 100/E	150/698	÷	1163	kW
RS 130/E	254/920	÷	1600	kW
RS 190/E-EV	470/1279	÷	2290	kW
RS 250/E-EV MZ	600/1250	÷	2650	kW

FIRING RATES
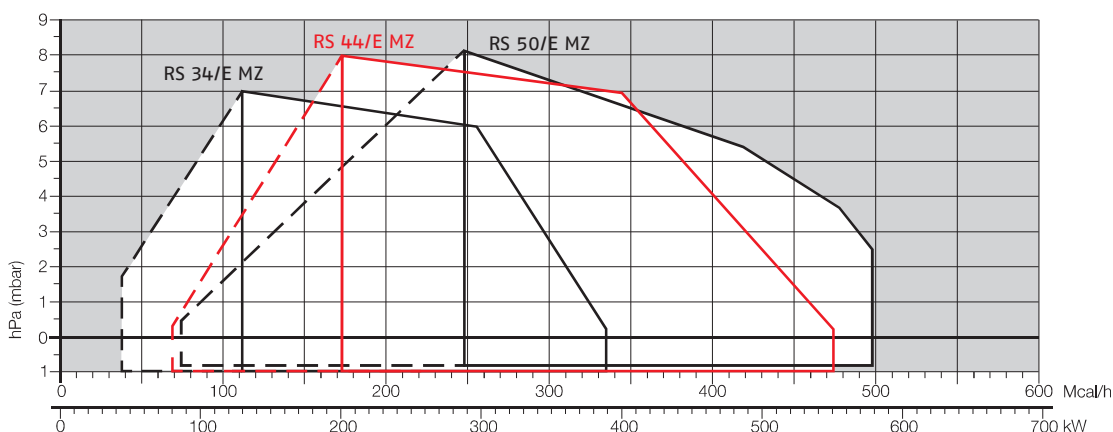
Useful working field for choosing the burner

Modulation range

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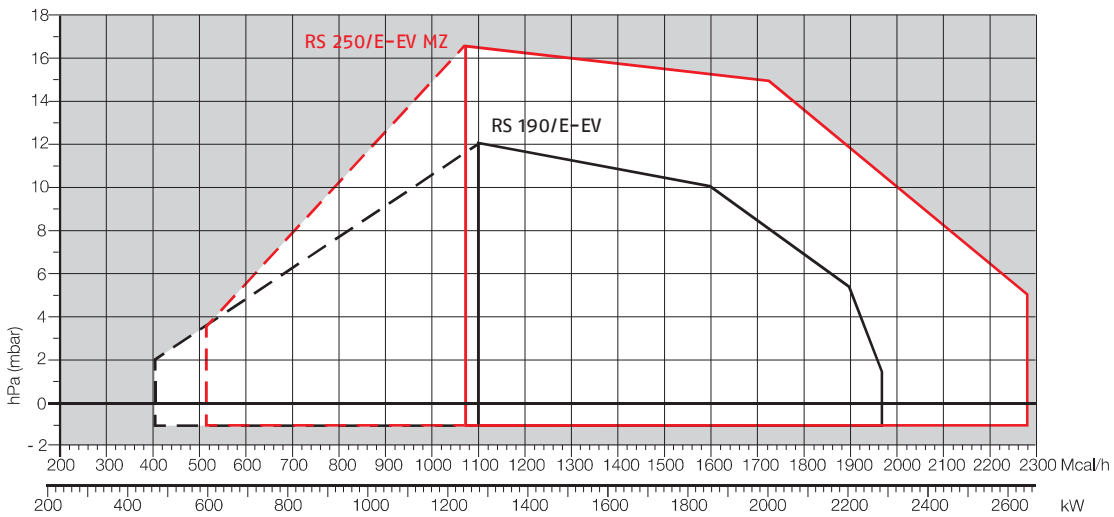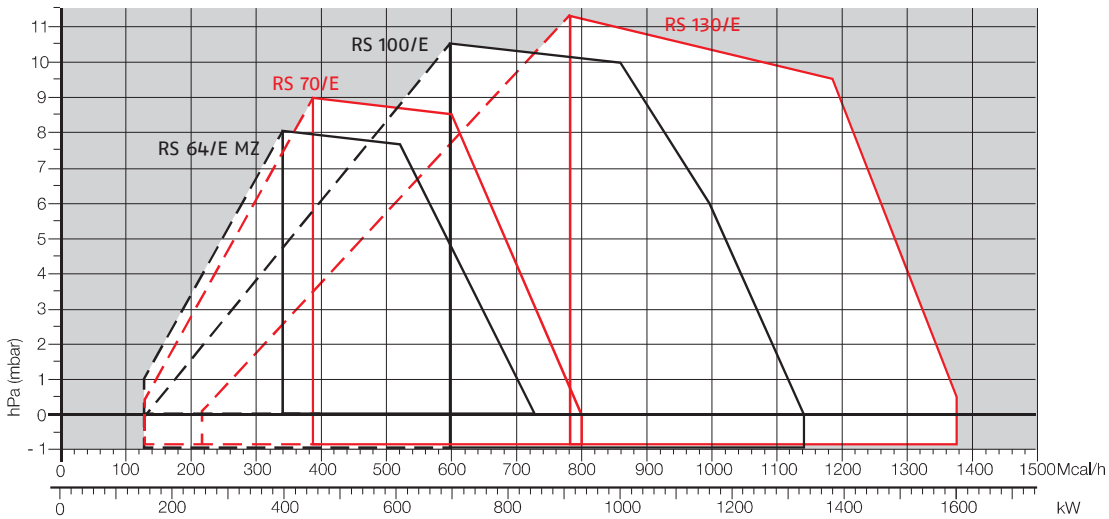Altitude: 0 m a.s.l.

FIRING RATES

Useful working field for choosing the burner

Modulation range

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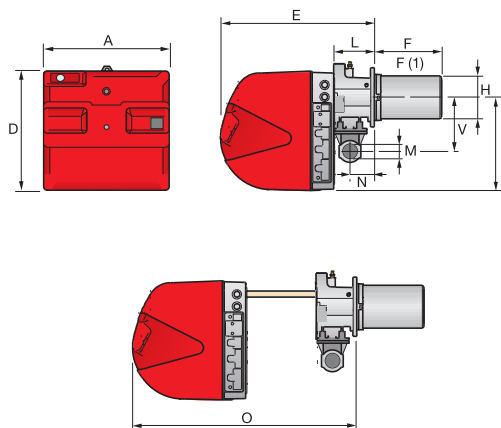Pressure: 1013,5 mbar
Altitude: 0 m a.s.l.

RS/E-EV MZ SERIES

Overall dimensions (mm)

BURNER

RS 34-44/E MZ

RS 50/E MZ
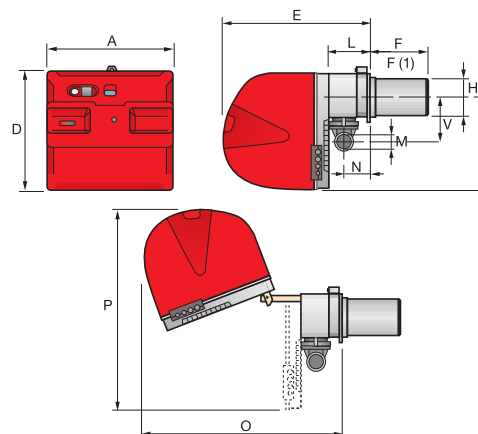
MODEL	A	D	E	F – F(1)	H	I	L	M	N	O	P	V
▶ RS 34/E MZ	442	422	508	216 – 351	140	305	138	1"1/2	84	780	–	177
▶ RS 44/E MZ	442	422	508	216 – 351	152	305	138	1"1/2	84	780	–	177
▶ RS 50/E MZ	476	474	580	216 – 351	152	352	164	1"1/2	108	810	719	168

(1) dimension with extended head

RS 64/E MZ
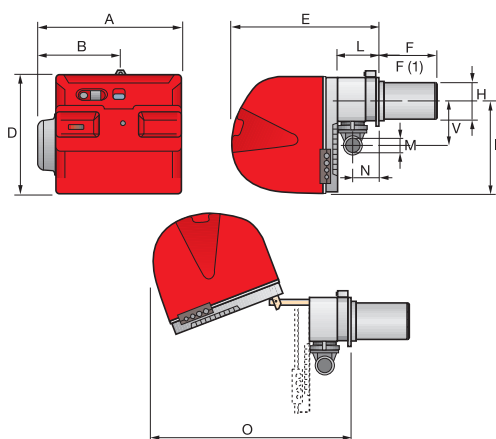
RS 70-100-130-190/E - RS 250/E-EV MZ
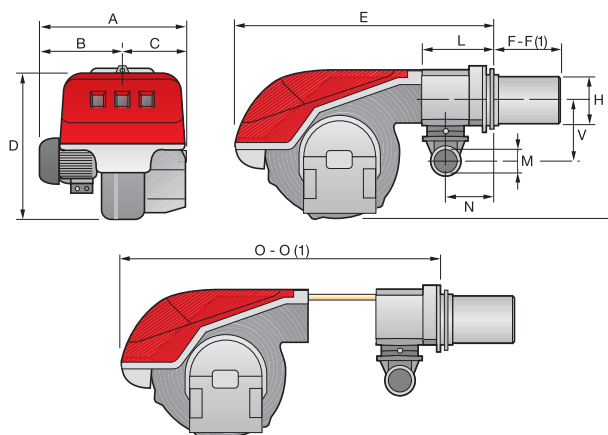
MODEL	A	B	C	D	E	F – F(1)	H	I	L	M	N	O – O(1)		V
▶ RS 64/E MZ	533	300	–	490	640	250 – 385	179	352	222	2"	134	810	– –	221
▶ RS 70/E	527	312	215	555	840	250 – 385	179	430	214	2"	134	1161 – 1296		221
▶ RS 100/E	527	312	215	555	840	250 – 385	179	430	214	2"	134	1161 – 1296		221
▶ RS 130/E	553	338	215	555	840	280 – 415	189	430	214	2"	134	1161 – 1296		221
▶ RS 190/E-EV	675	370	305	555	856	372 – 530	222	436	230	2"	150	1328 – –		264
▶ RS 250/E-EV MZ	732	427	305	555	872	370 – 520	222	436	230	2"	150	1322 – 1467		264

(1) dimension with extended head

GAS

Overall dimensions (mm)

BURNER - BOILER MOUNTING FLANGE
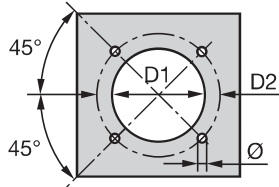
MODEL	D1	D2	Ø
▶ RS 34/E MZ	160	224	M8
▶ RS 44/E MZ	160	224	M8
▶ RS 50/E MZ	160	224	M8
▶ RS 64/E MZ	185	275−325	M12
▶ RS 70/E	185	275−325	M12
▶ RS 100/E	185	275−325	M12
▶ RS 130/E	195	275−325	M12
▶ RS 190/E−EV	230	325−368	M16
▶ RS 250/E−EV MZ	230	325−368	M16

PACKAGING
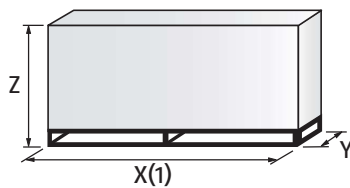
MODEL	X (1)	Y	Z	kg
▶ RS 34/E MZ	1000	485	500	39
▶ RS 44/E MZ	1000	485	500	40
▶ RS 50/E MZ	1200	502	630	48
▶ RS 64/E MZ	1200	580	630	50
▶ RS 70/E	1405	700	660	78
▶ RS 100/E	1405	700	660	81
▶ RS 130/E	1405	700	660	84
▶ RS 190/E−EV	1405	1000	660	89
▶ RS 250/E−EV MZ	1405−1420	1000	660	125

(1) dimension with standard and extended head

RIELLO

Specification

DESIGNATION OF SERIES

Series:	R

Fuel:	S	Natural Gas
	L	Light oil
	LS	Light oil/Natural Gas
	N	Heavy oil

Size:

Setting:	/1	Single stage
	/B	Two stage
	/M	Modulating-Mechanical cam
	/E	Electronic cam
	/P	Proportioning air/gas valve
	/EV	Electronic cam predisposed for variable speed (with inverter)
	/EVi	Electronic cam with integrated inverter

Emission:	... or C01	Class 1 EN676
	MZ	Class 2 EN676
	BLU	Class 3 EN676
	MX	Class 3 EN676

Head length:	TC	standard head
	TL	extended head

Flame control system:	FS1	Standard/Intermittent (at least 1 stop every 24 h)
	FS2	Continuous (1 stop every 72 h)

Electrical supply to the system:	
1/230/50	1/230V/50Hz
3/230/50	3/230V/50Hz
3/400/50	3N/400V/50Hz
3/230-400/50	3/230V/50Hz − 3N/400V/50Hz
3/220/60	3/220V/60Hz
3/380/60	3N/380V/60Hz
3/220-380/60	3/220/60Hz − 3N/380V/60Hz

Auxiliary voltage:	230/50-60	230V/50-60H
	110/50-60	110V/50-60Hz

R	S	50	/E	MZ	TC	FS1	3/230-400/50	230/50-60

BASIC DESIGNATION

EXTENDED DESIGNATION

GAS

RS/E-EV MZ SERIES

Specification

STATE OF SUPPLY

RS 34/E MZ – 44/E MZ models
Monoblock forced draught Low N0x gas burner with two stage progressive or modulating operation, with a specific kit, fully automatic, made up of:
- Microprocessor-based Digital Burner Management System (Electronic Cam)
- Display Interface operating unit to adjust the system
- Air suction circuit **with sound proofing material**
- High performance fan with straight blades
- Air damper for air flow setting and butterfly valve for regulating fuel output controlled by independent stepper motor actuators
- Starting motor at 2800 rpm, single-phase/220-230V/50-60Hz or three-phase/380-400V/50-60Hz
- 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
    - ionisation probe
    - gas distributor
    - flame stability disk
- Exclusive patented HCS (Housing Cooling System) with high thermal insulation and air circulation with continuous air volume refresh for an active cooling system and avoid heat transfer to the electrical component housing
- Minimum air pressure switch stops the burner in case of insufficient air quantity at the combustion head
- Plugs and sockets for electrical connection, accessible from the external of the cover
- Burner on/off selection switch
- Flame inspection window
- Slide bars for easier installation and maintenance
- Protection filter against radio interference
- IP X0D (IP 40) electric protection level.

Standard equipment:
- 1 gas train flange
- 1 flange gasket
- 4 screws for fixing the flange
- 1 thermal screen
- 4 screws for fixing the burner flange to the boiler
- 3 plugs for electrical connection (RS 34-44/E MZ single-phase)
- 4 plugs for electrical connection (RS 44/E MZ three-phase)
- Instruction handbook for installation, use and maintenance
- Spare parts catalogue.

RS/E-EV MZ SERIES

Specification

STATE OF SUPPLY

RS 50/E MZ − 64/E MZ − 70/E − 100/E − 130/E − 190/E−EV − 250/E−EV MZ models
Monoblock forced draught Low N0x gas burner with two stage progressive or modulating operation, with a specific kit, fully automatic, made up of:
− Microprocessor−based Digital Burner Management System (Electronic Cam)
− Display Interface operating unit to adjust the system
− Air suction circuit lined with sound−proofing material
− Fan with reverse curve blades (straight blades on the RS 64/E MZ − 190/E−EV − 250/E−EV MZ models) high performance with low sound emissions
− Air damper for air flow setting and butterfly valve for regulating fuel output controlled by independent stepper motor actuators
− Starting motor at 2800 rpm, three−phase 400V 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
    − ionisation probe
    − gas distributor
    − flame stability disk
− Maximum gas pressure switch to stop the burner in the case of excess pressure on the fuel supply line
− Minimum air pressure switch stops the burner in case of insufficient air quantity at the combustion head
− Burner on/off selection switch
− Flame inspection window
− Slide bars for easier installation and maintenance
− Protection filter against radio interference
− IP 44 electric protection level.

Standard equipment:
− 1 gas train flange
− 1 flange gasket
− 4 screws for fixing the flange
− 1 thermal screen
− 4 screws for fixing the burner flange to the boiler
− Wiring loom fittings for the electrical connection
− 2 slide bar extensions (for extended head models and RS 190/E−EV − 250/E−EV MZ models)
− Pressure switch for valve proofing system (RS 130/E − 190/E−EV − 250/E−EV MZ models models)
− Instruction handbook for installation, use and maintenance
− Spare parts catalogue.

GAS

RS/E-EV MZ SERIES

Available models

Burners

CODE	MODEL					HEAT OUTPUT NATURAL GAS		TOTAL ELECTRICAL POWER	CERTIFICATION	NOTE
						(kW)	(Nm³/h)	(kW)		
3789410	RS 34/E MZ	TC	FS1	1/220-230/50-60	220-230/50-60	44/130÷ 390	4,5/13÷39	0,6	CE 0085BS0378	(1)(3)
3789411	RS 34/E MZ	TL	FS1	1/220-230/50-60	220-230/50-60	44/130÷ 390	4,5/13÷39	0,6	CE 0085BS0378	(1)(3)
3789510	RS 44/E MZ	TC	FS1	1/220-230/50-60	220-230/50-60	80/200÷550	8/20÷55	0,7	CE 0085BS0378	(1)(3)
3789511	RS 44/E MZ	TL	FS1	1/220-230/50-60	220-230/50-60	80/200÷550	8/20÷55	0,7	CE 0085BS0378	(1)(3)
3789540	RS 44/E MZ	TC	FS1	3/220-400/50-60	220-230/50-60	80/200÷550	8/20÷55	0,75	CE 0085BS0378	(1)(3)
3789541	RS 44/E MZ	TL	FS1	3/220-400/50-60	220-230/50-60	80/200÷550	8/20÷55	0,75	CE 0085BS0378	(1)(3)
3781632	RS 50/E MZ	TC	FS1	3/230-400/50	230/50-60	85/290-580	8,5/29-58	0,75	CE 0085AQ0709	(1)(3)
3781633	RS 50/E MZ	TL	FS1	3/230-400/50	230/50-60	85/290-580	8,5/29-58	0,75	CE 0085AQ0709	(1)(3)
3789910	RS 64/E MZ	TC	FS1	3/230-400/50	230/50-60	150/400÷850	15/40÷85	1,2	CE-0085BT0022	(1)(3)
3789911	RS 64/E MZ	TL	FS1	3/230-400/50	230/50-60	150/400÷850	15/40÷85	1,2	CE-0085BT0022	(1)(3)
3787032	RS 70/E	TC	FS1	3/230-400/50	230/50-60	135/465-814	13,5/46,5-81	1,6	CE 0085AQ0708	(2)(3)
3787033	RS 70/E	TL	FS1	3/230-400/50	230/50-60	135/465-814	13,5/46,5-81	1,6	CE 0085AQ0708	(2)(3)
3787232	RS 100/E	TC	FS1	3/230-400/50	230/50-60	150/698-1163	15/70-116	2,0	CE 0085AQ0708	(2)(3)
3787233	RS 100/E	TL	FS1	3/230-400/50	230/50-60	150/698-1163	15/70-116	2,0	CE 0085AQ0708	(2)(3)
3787432	RS 130/E	TC	FS1	3/230-400/50	230/50-60	160/930-1512	16/93-151	2,8	CE 0085AQ0708	(2)(4)
3787433	RS 130/E	TL	FS1	3/230-400/50	230/50-60	160/930-1512	16/93-151	2,8	CE 0085AQ0708	(2)(4)
3787632	RS 190/E	TC	FS1	3/400/50	230/50-60	470/1279-2290	47/128-229	5,3	CE-0085BT0657	(2)(4)
20052617	RS 190/E	TL	FS1	3/400/50	230/50-60	470/1279-2290	47/128-229	5,3	CE-0085BT0657	(2)(4)
20142732	RS 190/EV	TC	FS1	3/230-400/50	230/50-60	470/1279-2290	47/128-229	5,3	-	(2)(4)
3789210	RS 250/E MZ	TC	FS1	3/400/50	230/50-60	600/1250÷2650	60/125÷265	6,5	CE 0085BT0061	(2)(4)
3789211	RS 250/E MZ	TL	FS1	3/400/50	230/50-60	600/1250÷2650	60/125÷265	6,5	CE 0085BT0061	(2)(4)
20010541	RS 250/E MZ	TC	FS1	3/380/60	220/60	600/1250÷2650	60/125÷265	6,5	-	(2)(4)
20014098	RS 250/EV MZ	TC	FS1	3/400/50	230/50-60	600/1250÷2650	60/125÷265	6,5	CE 0085BT0061	(2)(4)

Natural Gas, net calorific value: 10 kWh/Nm³ - Density at 20°C: 0,71 kg/Nm³
The burners of RS/E MZ series are in according to 2016/426/EU - 2014/30/EU - 2014/35/EU - 2006/42 CE Directive and EN 676 Norm.
(1) With plug and socket.
(2) With terminal board.
(3) Seal control function is included on Burner Digital Management System; it is necessary to add the PVP kit on the gas train as Accessory (see Gas Train Accessories paragraph).
(4) Seal control function is included on Burner Digital Management System; it is necessary to add the PVP kit (included as burner standard equipment) on the gas train. In case of matching with VGD 50/1 gas train, additional flange kit code 20185515 is needed.

RS/E-EV MZ SERIES

Available models

Gas Trains

GAS TRAIN			ADAPTER CODE								
CODE	MODEL	Ø	RS 34	RS 44	RS 50	RS 64	RS 70	RS 100	RS 130	RS 190	RS 250
3970599*	MB 407/1 – RT 52	Rp ¾"	3000824			●	●	●	●	●	●
3970258*	MB 410/1 – RT 52	Rp 1" ¼	3010124			3000843		●	●	●	●
3970600*	MB 410/1 – RT 52	Rp ¾"	3000824			3000824 + 3000843		●	●	●	●
3970256*	MB 412/1 – RT 52	Rp 1" ½	□	□	□	3000843					
3970250*	MB 415/1 – RT 52	Rp 1" ½	□	□	□						
3970257*	MB 420/1 – RT 52	Rp 2"	3000822			□	□	□	□	□	□
20137718*	VGD 50/1 – RT 122 (1)	Rp 2"	3000822			□	□	□	□	□	□
20140762*	VGD 65/1 – FT 122	DN 65 (2)	●	3000826 + 3000822		3000826					
20140763*	VGD 80/1 – FT 122	DN 80	●	●	●						
20169193*	VGD 100/1 – FT 122	DN 100	●	●	●	●	●	3000826 + 3010223			
20169195*	VGD 125/1 – FT 122	DN 125	●	●	●	●	●	●	●	●	●

Please see designation of Gas Train Series in the page before the Catalogue index.
* gas train are 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 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 130/E–190/E–250/E–EV MZ models.
To select the gas train please refer to the technical data leaflet and/or instruction manual.
(1)   Additional flange kit code 20185515 needed for seal control function.
(2)   øin = DN 65, øout = DN 80
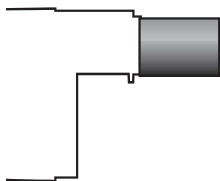●   Not available.
□   Additional adapter not necessary, the gas train may be connected directly to the burner.

GAS

Burner accessories

Extended heads

"Standard head" burners can be transformed into "extended head" versions, by using the special kit. The KITS available for the various burners, giving the original and the extended lengths, are listed below.

BURNER	'STANDARD HEAD' LENGTH (mm)	'EXTENDED HEAD' LENGTH (mm)	KIT CODE
▶ RS 34/E MZ	216	351	3010428
▶ RS 44/E MZ	216	351	3010429
▶ RS 50/E MZ	216	351	20008182
▶ RS 64/E MZ	250	385	3010427
▶ RS 70/E	250	385	3010117
▶ RS 100/E	250	385	3010118
▶ RS 130/E	280	415	3010119
▶ RS 190/E	372	530	3010443
▶ RS 250/E-EV MZ	370	520	3010412

Spacer kit

If burner head penetration into the combustion chamber needs reducing, varying thickness spacers are available, as given in the following table:

BURNER	SPACER THICKNESS S (mm)	KIT CODE
▶ RS 34-44-50/E MZ	110	3010095
▶ RS 64/E MZ – RS 70-100-130/E	135	3010129
▶ RS 190/E – RS 250/E-EV MZ	102	3000722

Continuous ventilation kit

If the burner requires continuous ventilation in the stages without flame, a special kit is available as given in the following table:

BURNER	KIT CODE
▶ RS 34-44/E MZ	3010449
▶ RS 50-64/E MZ – RS 70-100-130-190/E – RS 250/E-EV MZ	3010094

Sound proofing box
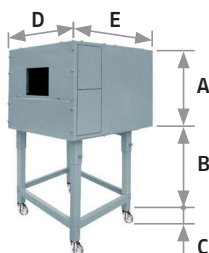
If noise emission needs reducing even further, sound-proofing boxes are available. When a lower "B" dimension is required, it is available the Box Support Kit code 20065135 which allows to reduce it at the fixed dimension of 55 mm.
The sound-proofing boxes are not suitable for outdoor use.

BURNER	BOX TYPE	A (mm)	B (mm) min-max	C (mm)	D (mm)	E (mm)	[dB(A)] (*)	BOX CODE
▶ RS 34-44-50-64/E MZ	C1/3	650	372 – 980	110	690	770	10	3010403
▶ RS 70-100-130-190/E RS 250/E-EV MZ	C4/5	850	160 – 980	110	980	930	10	3010404

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

RS/E-EV MZ SERIES

Burner accessories

Accessories for modulating operation

To obtain modulating operation, the RS/E series of burners requires a regulator with three point outlet controls. On RS 34/E MZ – 44/E MZ – 250/E MZ the regulator is connected to the burner electrical wiring by plug-in system in order to make the connection easier and faster.

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

The following table lists the accessories for modulating operation with their application range.

For remote setpoint use RWF 55.

BURNER	REGULATOR TYPE	KIT CODE
▶ RS 34-44-50-64/E MZ	RWF 50.2	20083339
	RWF 55.5	20098541
▶ RS 70-100-130-190/E RS 250/E-EV MZ	RWF 50.2	20099869
	RWF 55.5	20099905

BURNER	PROBE TYPE	RANGE (°C) (bar)	KIT 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

Connection flange kit
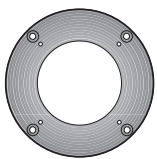
A kit is available for use where the burner opening on the boiler is of excessive diameter.

BURNER	KIT CODE
▶ RS 34-44-50/E MZ	3010138

LPG kit

For burning LPG gas, a special kit is available to be fitted to the combustion head on the burner, as given in the following table:

BURNER	KIT CODE FOR 'STANDARD HEAD' (*)	KIT CODE FOR 'EXTENDED HEAD' (*)
▶ RS 34/E MZ	3010423	3010423
▶ RS 44/E MZ	3010424	3010424
▶ RS 50/E MZ	20008173	20008173
▶ RS 64/E MZ	3010434	3010435
▶ RS 70/E	20008175	20008176
▶ RS 100/E	20008177	20008178
▶ RS 130/E	20008179	20008180
▶ RS 190/E	3010166	3010166
▶ RS 250/E-EV MZ	3010411	3010411

(*) CE approval on field is required

GAS

Burner accessories

Town gas kit

For burning Town gas, a special kit is available:

BURNER	KIT CODE FOR 'STANDARD HEAD' (*)	KIT CODE FOR 'EXTENDED HEAD' (*)
▶ RS 34/E MZ	3010502	3010502
▶ RS 44/E MZ	3010503	3010503
▶ RS 50/E MZ	3010285	3010285
▶ RS 70/E	3010286	3010286
▶ RS 100/E	3010287	3010287
▶ RS 130/E	3010288	3010288
▶ RS 190/E	3010297	3010297

(*) Without CE certification

Ground fault interrupter kit

A "Ground fault interrupter kit" is available as a safety device for electrical system fault.

BURNER	KIT CODE
▶ RS 34-44/E MZ	3010448
▶ RS 50-64/E MZ	20098335
▶ RS 70-100-130-190/E – RS 250/E-EV MZ	20098337

Gas max pressure switch
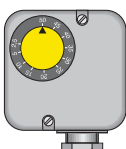
If necessary a Gas max pressure Switch kit is available and connectable to the burner electrical wiring through Plugs & Sockets system.

BURNER	KIT CODE
▶ RS 34-44/E MZ	3010418

Volt free contact kit

A volt free contact kit is available for installation onto the burner. It can be used for a remote interface between burner operating signals. Every burner can be equipped with a single kit for a remote check of the flame presence signal and the burner lock-out indication.

BURNER	KIT CODE
▶ RS 34-44/E MZ	3010419

DN80 gas flange kit
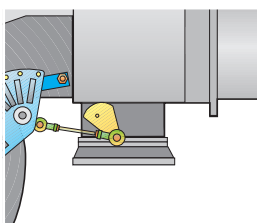
To modify the standard 2" burner gas input connection in to DN80 connection, a specific gas flange is available.

BURNER	KIT CODE
▶ RS 64/E MZ – RS 70-100-130-190/E – RS 250/E-EV MZ	3010439

Burner accessories

Variable Speed Drive (VSD) for RS/EV series only

The motor speed variation for the RS/EV MZ burners series is obtained thanks to a frequency converter: variable speed drive (VSD), provided with a programming panel with start-up assistant. It always must be ordered with RS/EV series.

BURNER	MAX POWER (kW)	KIT CODE
▶ RS 250/EV MZ	5,5	20163071

PC Interface kit

To connect the control box to a personal computer for the transmission of operation, fault signals and detailed service information, an interface adapter with PC software are available.

BURNER	KIT CODE
▶ RS 34-44-50-64/E MZ – RS 70-100-130-190/E – RS 250/E-EV MZ	3010436

OCI412 interface kit

Interface kit between the REC27.100A2 and a Modbus system, such as a building automation and control system (BACS). The Modbus interface is based on the RS-485 standard.

BURNER	KIT CODE
▶ RS 34-44-50-64/E MZ – RS 70-100-130-190/E – RS 250/E-EV MZ	3010437

Head kit for "reverse flame chamber"

In certain cases, the use of the burner on reverse flame boilers can be improved by using an additional cylinder.

BURNER	STANDARD HEAD LENGTH WITH CYLINDER (mm)	EXTENDED HEAD LENGTH WITH CYLINDER (mm)	KIT CODE (*)
▶ RS 190/E	493	–	3010241

(*) CE approval on field is required

Vibration reduction kit

The kit allow you to improve flame stability in some applications, where the boiler/flue assembly is liable to resonate.

BURNER	KIT CODE
▶ RS 34/E MZ (Natural Gas)	20098750
▶ RS 34/E MZ (LPG)	20098753
▶ RS 44/E MZ (Natural Gas)	20098746

GAS

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	LENGTH mm	ADAPTER CODE
2" — 1" 1/2	70	3000822
3/4" — 1" 1/2	31	3000824
DN 65 — 2" 1/2 — 2" / 2" 1/2 — 1" 1/2	300	3000825
DN 80 — 2" 1/2 — 2"	300	3000826
1" 1/2 — 2"	35	3000843
1" 1/4 — 1" 1/2	35	3010124
1" 1/4 — 2"	35	3010126

Stabiliser spring

Accessory springs are available to vary the pressure range of the gas train stabilisers. 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
▶ VGD/1 series	Neutral	0 − 22	20181839
	Yellow	15 − 120	20141900
	Red	100 − 250	20141901

PVP (Pressure Valve Proving) kit *
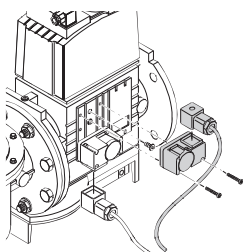
The seal control function is included on Burner Digital Management System, it is only necessary to add the PVP kit on the gas train.
The PVP is included as standard equipment on RS 130/E-250/E-EV MZ and RS 190/E models.

GAS TRAIN	KIT CODE
▶ All MB models, VGD 65/1 − 80/1 − 100/1 − 125/1	3010344 (*)
▶ VGD 50/1	3010344 + 20185515 (**)

(*) Code 3010344 not necessary for RS 130/E−250/E-EV and RS 190/E, where it is included as a standard.

(**) Code 20185515 always needed in case of seal control needed for VGD 50/1 gas train. Code 3010344 not necessary for RS 130/E−250/E-EV and RS 190/E, where it is included as a standard.