

EK 3 / 4 / 5 ... G



FEATURES :

- blown-air gas burner using both natural gas and propane
- monobloc structure
- combustion tube, fastened on the front wall of the generator by a sliding clamp
- closing of air shutter by servomotor
- pressure sensor to control air pressure of turbine
- one set of electrically assembled and wired valves including:
 - 1 gas filter
 - 2 gas valves
 - 1 pressure controller
 - 1 upstream gas pressure switch
- possibility to connect the gas line on the right or left-hand side
- removable protective hood
- complete electrical wiring (up to the EK4) with numbered terminal blocks
- 2800 rpm motor
- three-phase power supply 400 V / 50 Hz (60 Hz on request)
- LGB22 or LFL1...control box
- flame control by ionization sensor or UV cell

100 to 2900 kW

ELCO burners in the EK3/4/5 range are fully automated blown-air burners.

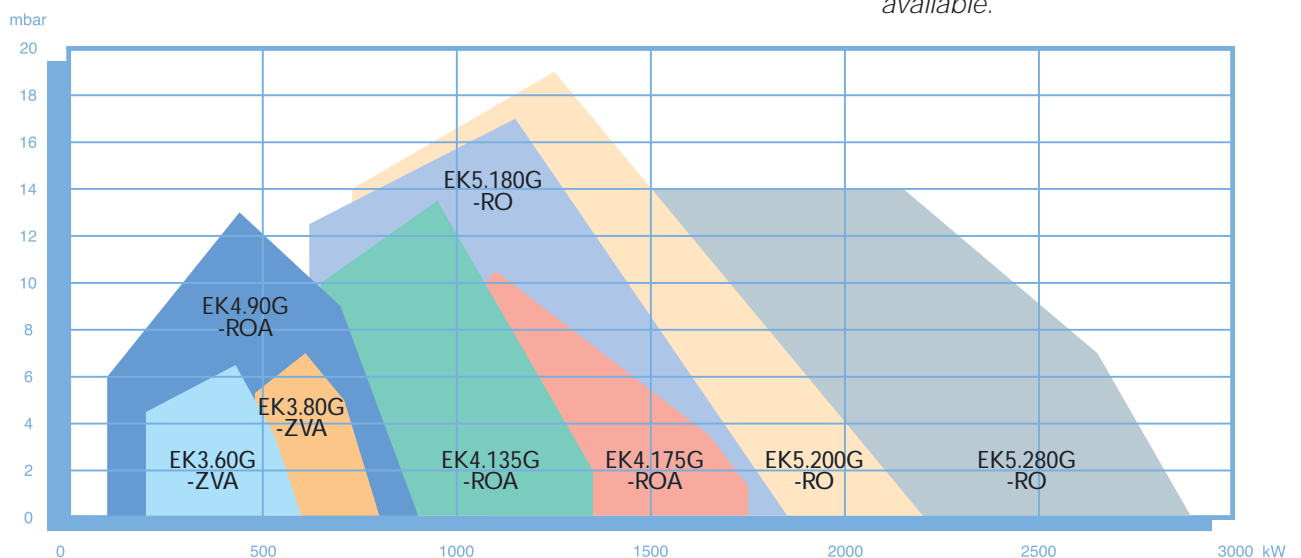
They meet the applicable requirements of EN676, EN60335, EN55014, EN55104 standards.

Burners in the EK3/4/5 series fit all heating equipment, thanks to pressure adjustment and air flow devices.

EK3/4/5 burners enjoy low-level noise, as a result of the optimized configuration of the ventilation

The EK3/4/5 range includes the various modes of control and operation types matching most applications.

Dual-fuel models are also available.



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OPERATING MODES

Available types of operation:

PROPORTIONAL 2 STAGES

High-low operation with servocontrol of gas injection pressure by burner air pressure resulting from the control of boiler. Recognition of changes in: gas distribution pressure, furnace pressure, air flow.

MODULATING

Possibility of control at any point between minimum and maximum capacity of burner according to the demand of boiler. The gas injectors section is adjusted so as to keep the injection rate steady.

LOW NOx

Proportional or modulating operation with abatement of nitrogen oxides emissions to the atmosphere.

EK3/4/5...G PROGRAMME

Type	Power range kW	Gas pressure kg/h	Operating mode	Penetration mm	Head diameter mm
EK3.60 G-ZVA	200 - 600	20 - 300	Proportional 2-stages	120 - 300	170
EK3.80 G-ZVA	300 - 800	20 - 300	Proportional 2-stages	120 - 300	190
EK3.50 G-ROA	100 - 465	50 - 300	Modulating	120 - 300	150
EK3.70 G-ROA	100 - 700	50 - 300	Modulating	120 - 300	190
EK3.50 G-ZUA	123 - 584	50 - 300	2 stages low NOx	150 - 300	150
EK4.135 G-ZVA	400 - 1350	50 - 300	Proportional 2-stages	140 - 300	220
EK4.175 G-ZVA	500 - 1750	50 - 300	Proportional 2-stages	170 - 470	260
EK4.70 G-ZUA	150 - 670	50 - 300	2 stages low NOx	150 - 300	190
EK4.90 G-ZUA	210 - 960	50 - 300	2 stages low NOx	150 - 300	190
EK4.90 G-ROA	100 - 900	50 - 300	Modulating	120 - 300	190
EK4.135 G-ROA	100 - 1350	50 - 300	Modulating	140 - 300	220
EK4.175 G-ROA	170 - 1750	50 - 300	Modulating	170 - 470	260
EK4.90 G-RUA	210 - 960	50 - 300	Modulating low NOx	150 - 300	190
EK4.135 G-RUA	210 - 1310	50 - 300	Modulating low NOx	240 - 490	220
EK4.175 G-RUA	380 - 1845	50 - 300	Modulating low NOx	400 / 600	270
EK5.180 G-RO	160 - 1850	50 - 300	Modulating	250 / 450	220
EK5.220 G-RO	400 - 2200	50 - 300	Modulating	270 / 470	260
EK5.280 G-RO	600 - 2900	50 - 300	Modulating	250 / 480	320
EK5.220 G-RU	440 - 2400	50 - 300	Modulating low NOx	400 / 600	270
EK5.280 G-RU	600 - 2940	50 - 300	Modulating low NOx	410 / 610	330