

EG A modulated combustion air flow 250÷3500 kW



The air draught generator line is used in all the applications where is required a direct air heating during industrial process.

Plant is made up of a tube section with suitable materials resistant to temperature and/or treated fluid, an **EG or EGX** burner (see “module” section) correctly dimensioned and assembling, in order to consent the better exchange between combusted gas and process air.

External to the duct are located the interdiction and fuel adjuster ramp, the automatic burner control unit, the ignition transformer and the flame detector.

Comburent air can be supplied by an electro-blowing fan suitable dimensioned, which takes the comburent to the mixing head, through a canalization.

The comburent air can be obtained by process, using an Open Back version modulus see “module” section).

So in this case, a part of process fluid is conveyed to the mixing head through a velocity increase, due to a restricting part of canalization, where the burner is located. This application is possible only when oxygen level is higher than 17% during the process fuel.

This direct exchange gas burner series is extremely flexible and allows an installation in a large number of utilization, which are classified according to working temperature and to the adjuster type of fuel and comburent capacity:

B	Low Working Temp.	T max (upstream burner) = 360 °C
		T max (downstream burner) = 800 °C
M	Average Working Temp.	T max (upstream burner) = 600 °C
		T max (downstream burner) = 800 °C
A	High Working Temp.	T max (upstream burner) = 700 °C
		T max (downstream burner) = 900 °C

Working fields

	250	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	
"L" series															
"X" series															

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Regulation Type

–**Air/Gas Modulant:** provides for fuel and comburent air adjusting through motorized valves which adjust the capacity in order to reach to temperature set required by the installation.

Max. ÷ min. ratio 20:1.

–**Gas Modulant:** provides for fuel only adjusting through motorized valve, while comburent air capacity is calibrated in order to permit combustion to the maximum efficiency.

Max. ÷ min. ratio 10:1.

–**High/Low Flame:** provides for an “all or few” adjusting type for fuel, instead comburent air capacity is calibrated in order to permit the combustion to the maximum efficiency.

Max. ÷ min. ratio 10:1.

–**On-Off Regulation:** provides for “everything or nothing” adjusting type, instead comburent air capacity is calibrated in order to permit the combustion to the maximum efficiency. Only for low capacity burner till 580 kW.

Max. ÷ min. ratio 5:1.

All the typologies above mentioned refer to generators with comburent air supplied by an electro blowing fan.

If the start-up belongs to OPEN-BACK version, an eventual variation of capacity process air can have a good influence on comburent air velocity. This one will have to be adjusted by moving pilling, in order to guarantee a velocity included between 10 m/s and 20 m/s.

Features

–Main module direct electrical ignition by electrode; or indirect by a pilot incorporated in burner structure.

–Flame detection with ionization electrode or UV cell.

–Standard executions for Methane gas and LPG, other gaseous fuel on request.

–High-Low Flame, Gas Modulant, Air/Gas Modulant regulation.

–Available as complete version with gas ramp and control board in compliance with EN 676 regulations (other regulation if required).

Applications

–All types of application in which a large exchange surface between combustion gas and process air is required, and it's necessary a fast and uniform mixing.

–Ceramic, Bricks, Refractory: Intermittent and continuous dryers.

–Surfaces treatment: Painting kilns, enamellings kilns and dryers.

–Printing and Packing: Air Heaters for Rotogravures, Flexographic and Coupling and adhesive coating Machines.

–Food: Cereal, fodder and tobacco dryers, roasters.

–Moreover for all those applications in which a gas burner at large regulation and automatic working is required.

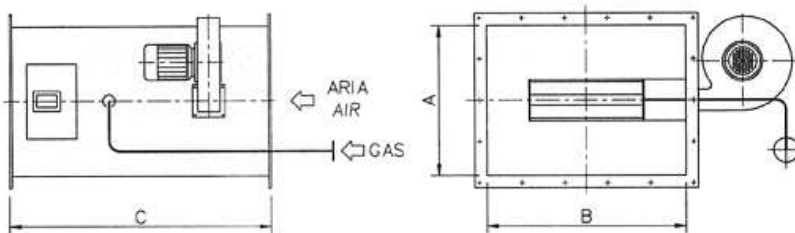
AIR DUCT BURNERS



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Standard duct dimensions (mm)



"L" series

Mod	250	500	750	1000	1250	1500	1750	2000	2250	2500
A	600	600	600	600	600	600	600	600	600	600
B	650	800	950	1.100	1.100	1.400	1.550	1.700	1.850	2.000
C	1.050	1.050	1.050	1.050	1.050	1.050	1.250	1.250	1.250	1.250

"X" series

Mod	1000	1500	2000	2250	2500	2750	3000	3500
A	800	800	800	800	800	800	1.100	1.100
B	800	1.100	1.100	1.400	1.400	1.550	1.100	1.400
C	1.050	1.050	1.250	1.250	1.250	1.250	1.250	1.250

Configurations

Orientations below showed are the most commonly used, but they can be changed following the customer requests in order to satisfy the installation design. Our Technical Service is always at your disposal for the necessary explanations and assistance to optimize the installations.

