

GI MIST 510 DSPGM

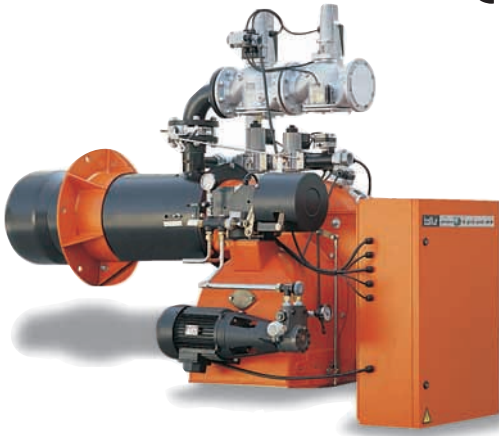
kW

From 2430 to 6500 kW

Conform to:
E.M.C. Directive 89/336/CEE
L.V. Directive 73/23/CEE
Reference standard: EN676



TECHNICAL AND FUNCTIONAL CHARACTERISTICS

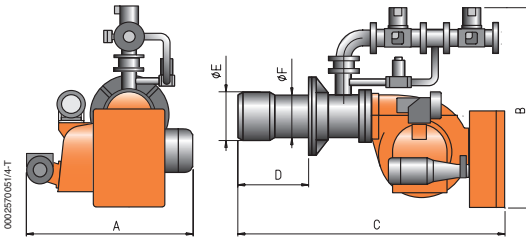


- Alternate natural gas/light oil burner.
- Two-stage progressive output operation.
- Continuous modulation operation by installing P.I.D. controller on control panel (to be ordered separately with modulating kit).
- Air-gas mixing at blast-pipe and high pressure mechanical atomisation of fuel using nozzle.
- Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
- Maintenance facilitated by the fact that the mixing unit and the atomisation unit can be removed without having to remove the burner from the boiler.
- Minimum and maximum air flow regulation for first and second stage by means of electric servomotor with pause closure of gate to prevent any heat dispersion to flue.
- Valves tightness control device compliant with European standard EN676.
- Prepared for automatic fuel switching.
- Equipped with one flange and one insulating seal for boiler fastening, 2 flexible hoses, one line filter; nozzle not included, to be ordered separately depending on the required flow.

CONSTRUCTION CHARACTERISTICS

The burner consists of:

- Combustion air intake with air flow adjustment device.
- Sliding boiler coupling flange to adapt the head protrusion to the various types of boilers.
- Air pressure switch to ensure the presence of combustion air.
- Electric servomotor with mechanical cam for simultaneous regulation of combustion air and fuel.
- In the CE version the gas train is complete with regulator, operating, safety and pilot valves, valve tightness control, minimum pressure switch, pressure regulator and gas filter; in the EXPORT version gas train is complete with regulator, operating, safety device and pilot valves, valve tightness control and minimum pressure switch.
- Gear pump with pressure regulator.
- Atomisation unit with magnet to control the outlet/nozzle return pins.
- Automatic control and command equipment for the burner, compliant with European standard EN298.
- Flame detection by UV photo-electric cell.
- On-board control panel with stop/go switch, fuel change switch and operation, blok and fuel indicators.
- Terminal block for the electrical and thermostatic connections to the burner and to control the second stage of working or for the connection of the electronic output regulator.
- Electrical protection rating IP40.
- On-board terminal box and separate control panel comprising stop/go switch, automatic/manual and minimum/maximum selector, fuel change switch and operation, blok, pre-heating resistors on and fuel indicators.



Model	A mm	B mm	C mm	D mm	E mm	F mm
GI MIST 510 DSPGM	1345	1540	2030	320 ÷ 625	400	355

Thermal output kW	Model	Part no.	Max visc. °E at 20°C	Gas type	P.Gas** mbar	Regulator with incorporated filter Part no.	Pic.	Electrical supply	Motors kW	Size of packaging L x P x H mm	Weight kg	Notes
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CE version - Frequency 50 Hz

2430 ÷ 6500	GI MIST 510 DSPGM	6681050	1,5	N.G.	500	97390383	D5	3N AC 50Hz 400V	18,5 + 3,0	2260 x 1520 x 1150	700	4) 8) 13)
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EXPORT version - Frequency 50 Hz

2430 ÷ 6500	GI MIST 510 DSPGM	6681050	1,5	N.G.	140	-	DE5	3N AC 50Hz 400V	18,5 + 3,0	2260 x 1520 x 1150	700	4) 8) 13)
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EXPORT version - Frequency 60 Hz **ON REQUEST**

To complete the burner

Nozzle with 1-3 ratio (see page 229)

Modulating mode

Part.no

98000055 Modulation kit (see page 228)

Modulating probe kit (see page 228)

Dual fuel burner accessories

Line filter - Flex hoses - Boiler coupling kit

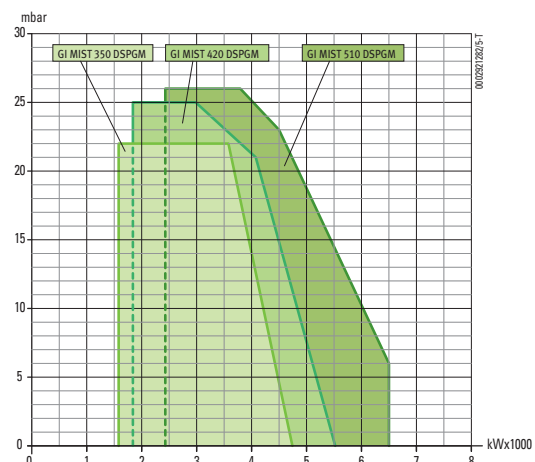
Notes

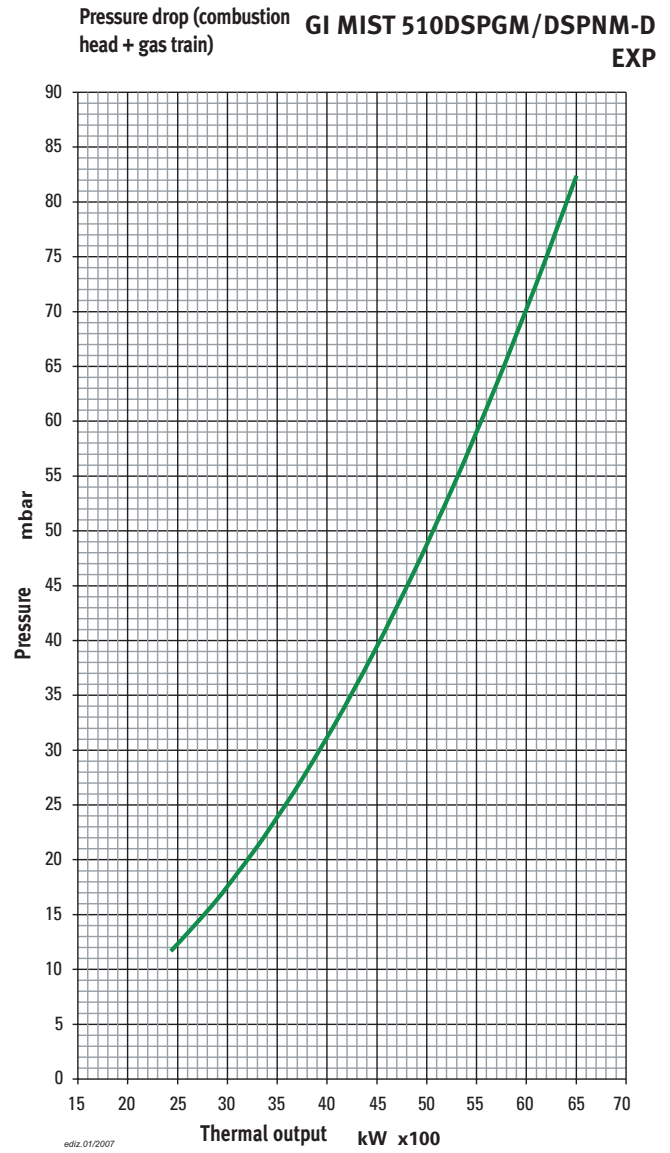
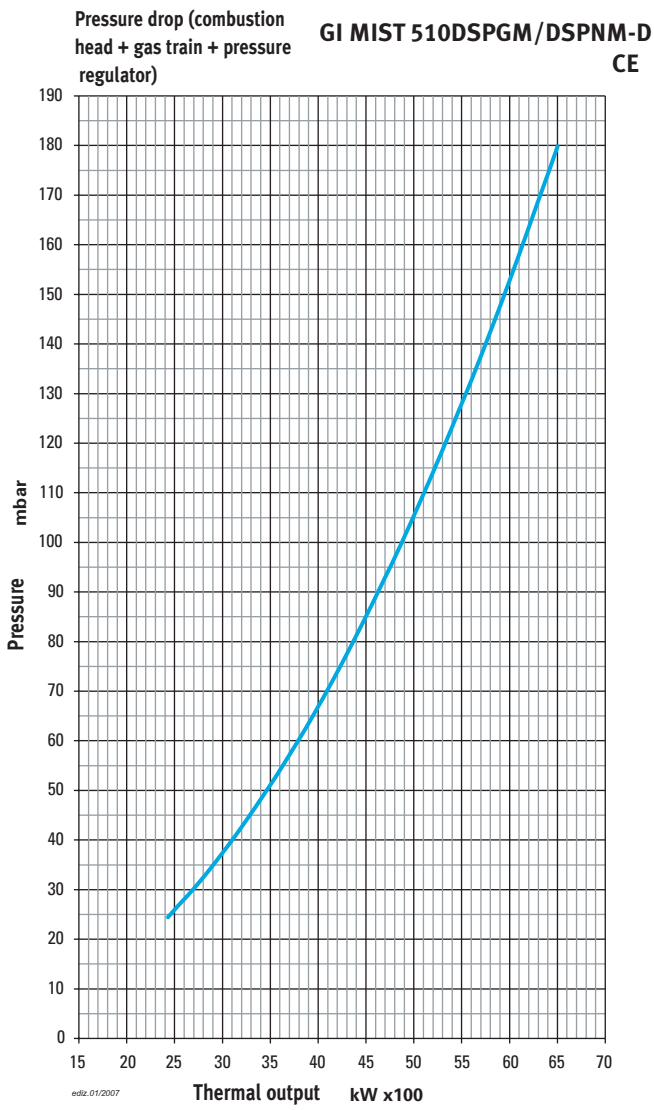
- 4) Equipped with air closure device.
- 8) Prepared for automatic fuel switching.
- 13) Equipped with valve tightness control.
- ***) Maximum gas inlet pressure at pressure regulator in CE version, at gas train for EXP version.

Net calorific value:

Natural gas: $H_i = 35,80 \text{ MJ/m}^3 = 8550 \text{ kcal/m}^3$,
at reference conditions of 0°C, 1013 mbar;

Light oil: $H_i = 42,70 \text{ MJ/kg} = 10200 \text{ kcal/kg}$.





To check the standard gas train output see page 10.
For information on the structure, composition, and size of the gas train please refer to the diagrams on page 232.