GI MIST...DSPNM-D

From 1581 to 5522 kW

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





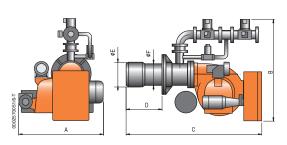


TECHNICAL AND FUNCTIONAL CHARACTERISTICS

- Alternate natural gas/heavy 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.

- On request it is possible to add to the burner a supplementary heavy oil pre-heater using steam, which means the fuel can be heated by the steam from the boiler to provide an energy saving.
- 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 self-cleaning line filter with resistance; nozzle not included, to be ordered separately depending on the required flow.
- · On request: steam pre-heater.



Model	A mm	B mm	C mm	D mm	E mm	F mm
GI MIST 350 DSPNM-D	1345	1590	1970	230 ÷ 600	335	325
GI MIST 420 DSPNM-D	1345	1530	2030	320 ÷ 625	400	355

CONSTRUCTION CHARACTERISTICS

- Combustion air intake with air 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.
- Heating resistor for the pump, regulator valve and the atomisation unit.

- Atomisation unit with magnet to control the outlet/nozzle return pins.
- Electrical fuel preheater comprising antigas valve, filter, thermometer, regulation thermostats and minimum safety device.
- Automatic control and command equipment for the burner, compliant with European standard EN298.
- Flame detection by UV photo-electric cell.
- On-board panel comprising stop/go switch, automatic/manual and minimum/maximum selector, fuel change switch and operation, block, pre-heating resistors on 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 regolator.
- Electrical protection rating IP40.

	Thermal output kW	Model	Part no.	Max visc. °E at 50°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
CE version - Frequency 50 Hz													
1	1581 ÷ 4743	GI MIST 350 DSPNM-D	6705050	50	N.G.	500	97390374	D5	3N AC 50Hz 400V	15,0 + 2,2	2260 x 1520 x 1150	802	1) 8) 13)
1	1840 ÷ 5522	GI MIST 420 DSPNM-D	6708050	50	N.G.	500	97390383	D5	3N AC 50Hz 400V	18,5 + 3,0	2260 x 1520 x 1150	847 4	1) 8) 13)
EXPORT version - Frequency 50 Hz													
1	1581 ÷ 4743	GI MIST 350 DSPNM-D	6705050	50	N.G.	140	=	DE5	3N AC 50Hz 400V	15,0 + 2,2	2260 x 1520 x 1150	802	1) 8) 13)
1	1840 ÷ 5522	GI MIST 420 DSPNM-D	6708050	50	N.G.	140	-	DE5	3N AC 50Hz 400V	18,5 + 3,0	2260 x 1520 x 1150	847	1) 8) 13)

EXPORT version - Frequency 60 Hz ON REQUEST

To complete the burner

Nozzle with 1-3 ratio (see page 229)

Modulating mode

98000055 Modulation kit (see page 228)

Modulating probe kit (see page 228)

Optionals

Steam pre-heater

Dual fuel burner accessories

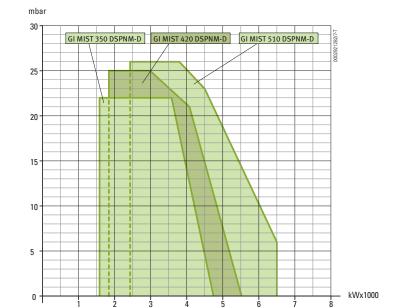
Line filter - Flex hoses - Boiler coupling kit

Notes

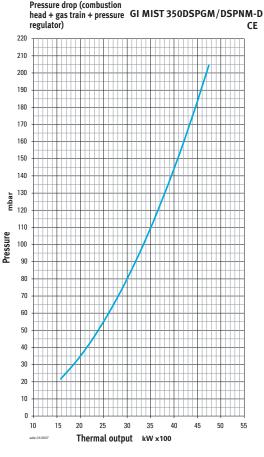
- Equipped with automatic device for air closing.
- Can be used for automatic fuel switching.
- Equipped with valve tightness control.
- Maximum gas inlet pressure at pressure regulator in CE version, at gas train for EXP version.

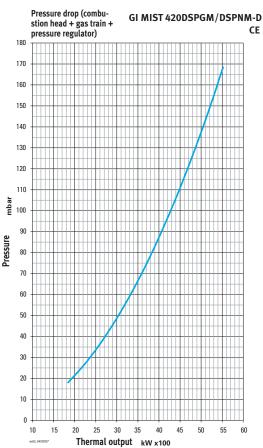
Net calorific value: Natural gas Hi = 35,80 MJ/m³ = 8550 kcal/m³, at reference conditions of 0°C, 1013 bar;

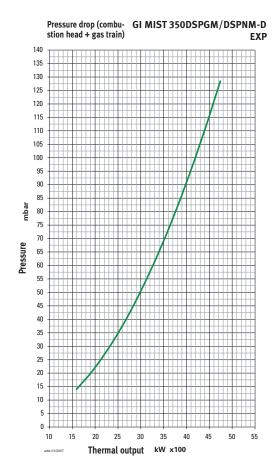
Hi = 40,19 MJ/kg = 9600 kcal/kg.

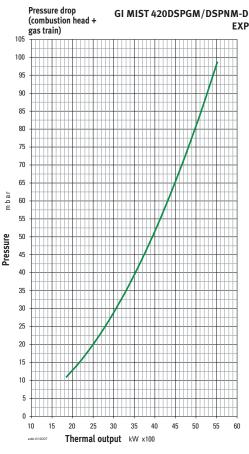


Pressure drop (combustion









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.