

COMIST 72 DSPGM

kW

From 348 to 916 kW

WHILE STOCK LASTS



TECHNICAL AND FUNCTIONAL CHARACTERISTICS

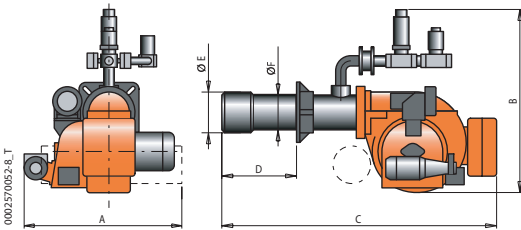


- Alternate natural gas/light oil burner.
- Two-stage progressive output operation.
- Ability to operate with output modulation by means of automatic RWF40 regulator mounted on the control panel (to be ordered separately with the modulation kit).
- Air-gas mixing at blast-pipe and high pressure mechanical 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.
- A valve tightness control can be fitted on the burner.
- 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, minimum pressure switch, pressure regulator and gas filter; In the EXPORT version the gas train is complete with regulator, operating, safety and pilot valves 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 terminal box and separate control panel comprising stop/go switch, automatic/manual and minimum/maximum selector, fuel change switch and operation, block 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.



Model	A mm	B mm	C mm	D mm	E mm	F mm
COMIST 72 DSPGM	775	900	1430	175 ÷ 445	227	220

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
CE Version - Frequency 50 Hz												
348 ÷ 916	COMIST 72 DSPGM	5227010	1,5	N.G.	200	97390061	D5	3N AC 50Hz 400V	1,1 + 0,55	1730 x 1030 x 880	205	4) 8)
CE Version - Frequency 60 Hz												
348 ÷ 916	COMIST 72 DSPGM	52275410	1,5	N.G.	200	97390061	D5	3N AC 60Hz 400V	1,5 + 0,65	1730 x 1030 x 880	205	4) 8)
EXPORT Version- Frequency 50 Hz												
348 ÷ 916	COMIST 72 DSPGM	5227010	1,5	N.G.	140	-	DE5	3N AC 50Hz 400V	1,1 + 0,55	1730 x 1030 x 880	205	4) 8)
EXPORT Version- Frequency 60 Hz												
348 ÷ 916	COMIST 72 DSPGM	52275410	1,5	N.G.	140	-	DE5	3N AC 60Hz 400V	1,5 + 0,65	1730 x 1030 x 880	205	4) 8)

To complete the burner Nozzle with 1-3 ratio (see page 231)

Modulating mode

Part.no

98000051 Kit RWF 40 - Modulation kit (see page 230).

Optionals

Description

LDU 11 valve tightness control.

Dual fuel burner accessories

Line filter - Flex hoses - Boiler coupling kit

Notes

4) Equipped with automatic device for air closing.

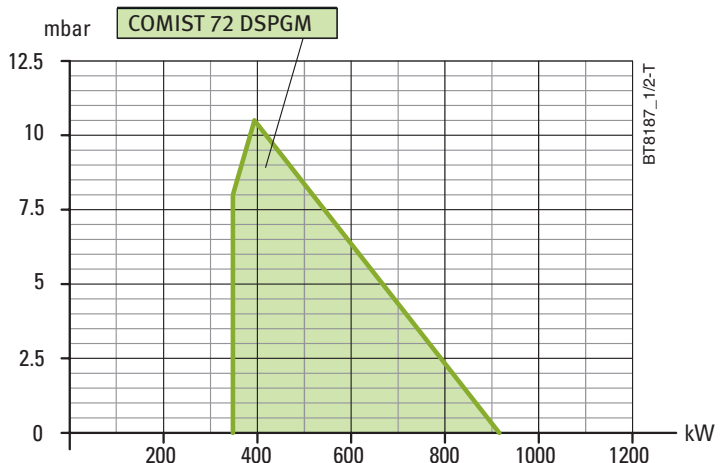
8) Can be used for automatic fuel switching.

***) Maximum gas inlet pressure at pressure regulator in CE version, at gas train for EXP version.

Net calorific value:

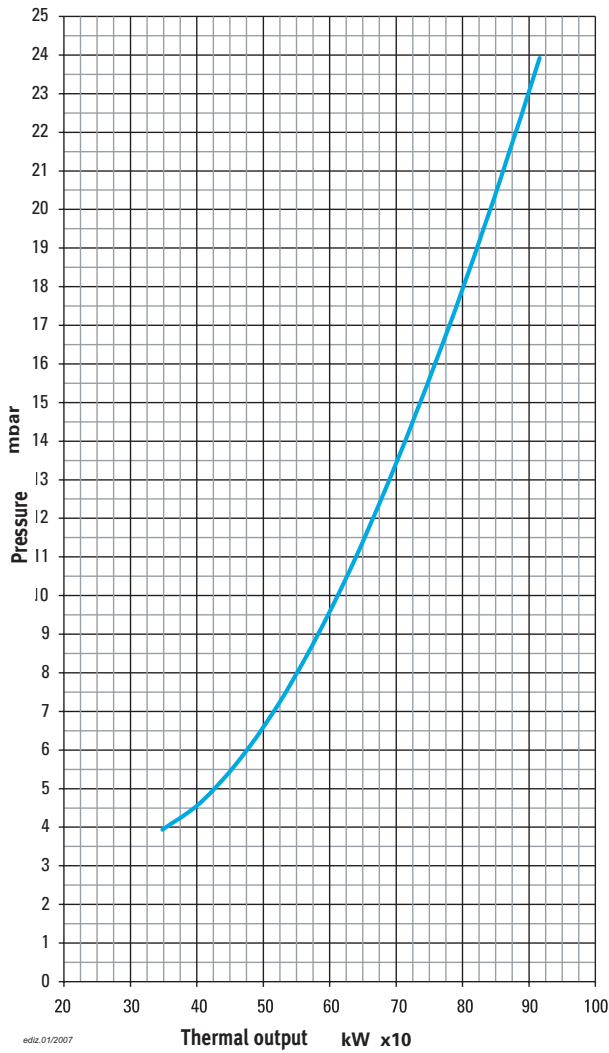
Natural gas: Hi = 35,80 MJ/m³ = 8550 kcal/m³,
at reference conditions of 0°C, 1013 mbar;

Light oil: Hi = 42,70 MJ/kg = 10200 kcal/kg.



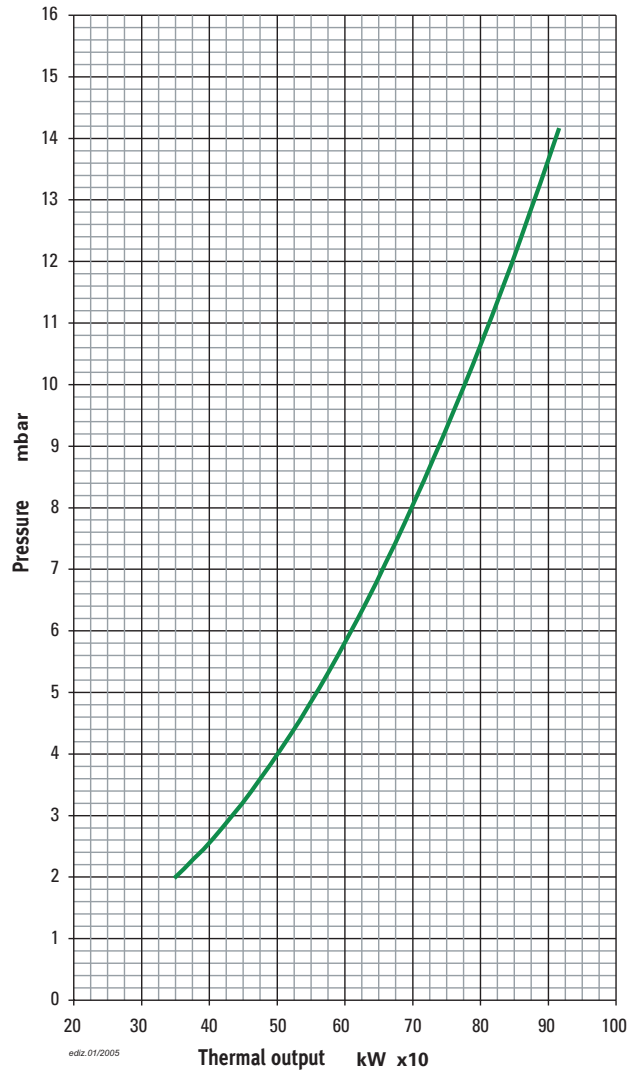
Pressure drop (combustion head + gas train + pressure regulator)

COMIST 72DSPGM
CE



Pressure drop (combustion head + gas train)

COMIST 72DSPGM
EXP



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 234.