

COMIST 72 N

kW

From 348 to 916 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 operation (high/low flame).
- 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.
- 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.
- Possibility to chose gas train with valve tightness control.
- Prepared for automatic fuel switching.
- Equipped with one flange and one insulating seal for boiler fastening, 2 flexible hoses, one line filter and 2 nozzles.

CONSTRUCTION CHARACTERISTICS

The burner consists of:

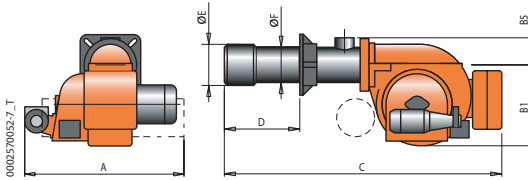
- Combustion air intake with air flow adjustment device.
- Sliding boiler coupling flange to adapt the head protrusion to the various types of boilers.
- Air pressure switch to ensure the presence of combustion air.
- Gear pump with pressure regulator, fuel stop-cock valve and safety valve.
- Atomisation unit with nozzle-closing pin.
- Electrical fuel preheater comprising antigas valve, filter, thermometer and minimum and regulation thermostat.
- Automatic control and command equipment for the burner, compliant with

European standard EN298.

- Flame detection by UV photo-electric cell.
- Control panel comprising stop/go switch, 1st/2nd stage 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.
- Electrical protection rating IP40.

To be ordered separately:

- Gas train complete with operation and safety valve, minimum pressure switch, pressure regulator and gas filter.



Model	A mm	B 1 mm	B 5 mm	C mm	D mm	E mm	F mm
COMIST 72 N	575	380	135	1310	175 ÷ 345	191	187

Thermal output kW	Model	Part no.	Max visc. °E at 50°C	Electrical supply	Motor kW	Size of packaging L x P x H mm	Weight kg	Notes
Frequency 50 Hz								
348 ÷ 916	COMIST 72 N	55380010	7	3N AC 50Hz 400V	1,1+0,75	1730 x 1030 x 880	180	4) 8)
Frequency 60 Hz								
348 ÷ 916	COMIST 72 N	55385410	7	3N AC 60Hz 400V	1,5+0,75	1730 x 1030 x 880	180	4) 8)

Dual fuel burner accessories

Line filter - Flex hoses - Nozzle - Boiler coupling kit

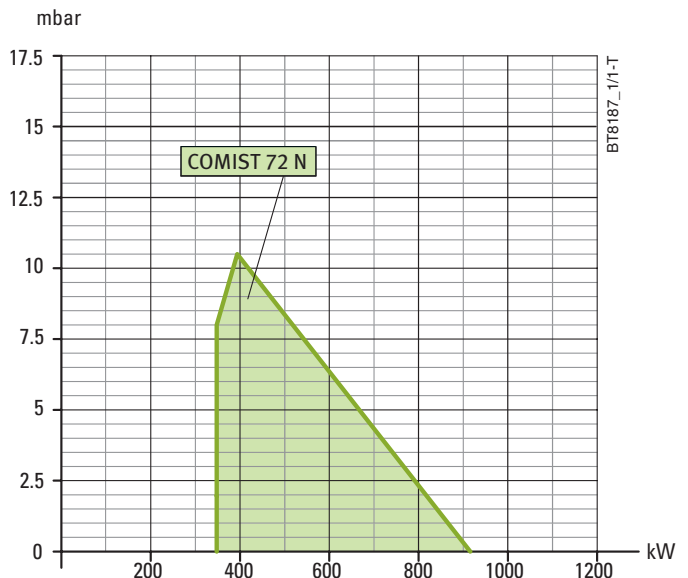
Notes

- 4) Equipped with automatic device for air closing.
 - 6) Where gas pressure at the safety valve is less than 12mbar, replace the minimum pressure switch with a GW50 pressure switch.
 - 8) Can be used for automatic fuel switching.
 - 12) Valve tightness control not required by EN676.
- CTV) Gas train 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;

Heavy oil: $H_i = 40,19 \text{ MJ/kg} = 9600 \text{ kcal/kg}$.

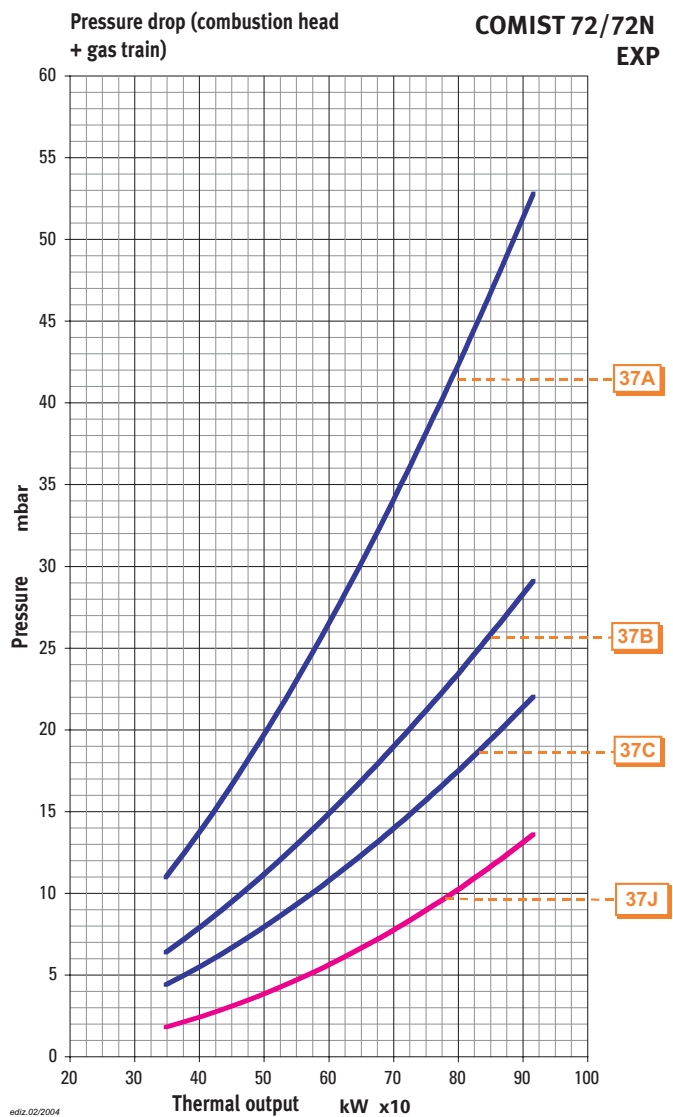
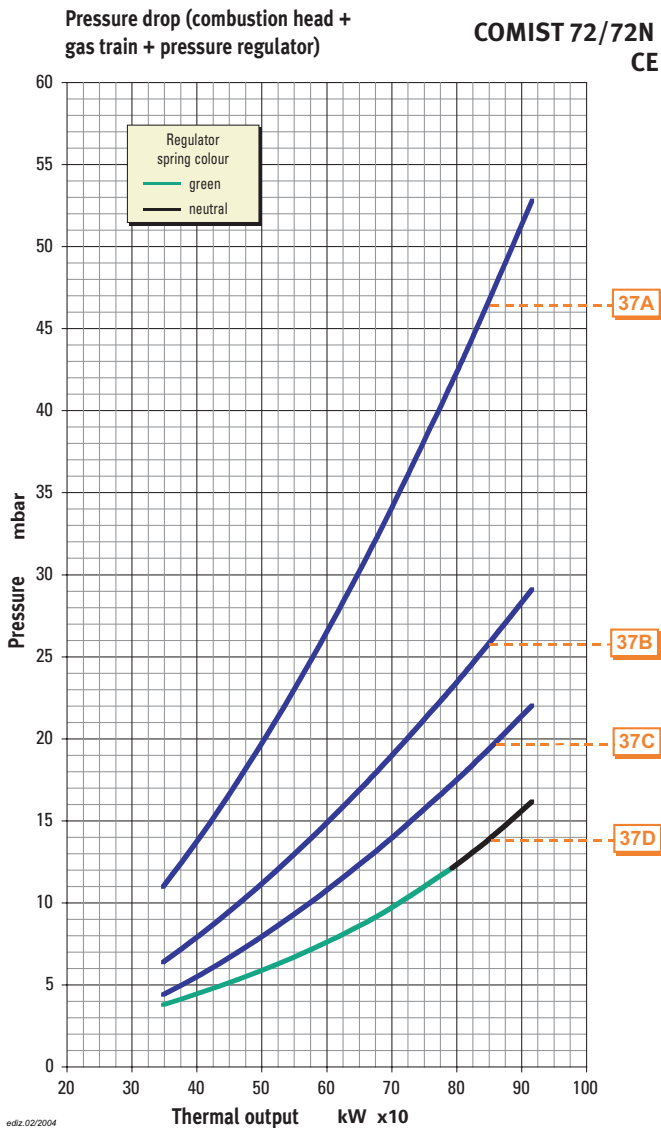


Burner/gas train match

CE gas train version complies with EN676, EXP gas train version is for extra-European markets

Burner model	Gas type	Version	Curve on graph	Execution	P _{Max} ** mbar	Gas train Part no.	Regulator with incorporated filter Part no.	Burner/gas train adapter Part no.	Pic.	Notes
COMIST 72N	NATURAL GAS	CE	37A		360	19990410	Included	96000007	B2	
			37B	CTV	360	19990404	Included	96000007	B2	12)
			37C	CTV	360	19990405	Included	–	B2	12)
			37D	CTV	360	19990455	Included	–	B2	12)
		37D	CTV	500	19990456	97390700	–	B4	6)	
		37A	CTV	500	19990457	97390700	–	B4	6) 12)	
		EXP	37A		360	19990410	Included	96000007	B2	
			37B	CTV	360	19990404	Included	96000007	B2	
	37C		CTV	360	19990405	Included	–	B2		
	37C		CTV	360	19990455	Included	–	B2		
	37J		140	19990456	–	–	BE4	6)		
	37J	CTV	140	19990457	–	–	BE4	6)		

To choose the correct gas train please refer to the information on page 10.
For information on the structure, composition, and size of the gas train please refer to the diagrams on page 232.



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