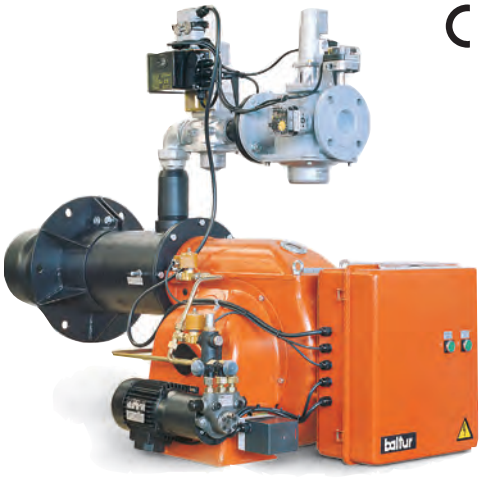
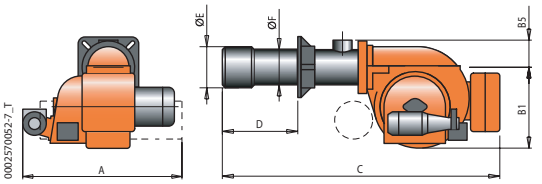
COMIST 122

From 652 to 1364 kW

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





Model	A mm	B1 mm	B5 mm	C mm	D mm	E mm	F mm
COMIST 122	685	490	152	1490	195 ÷ 445	227	220

TECHNICAL AND FUNCTIONAL CHARACTERISTICS

- Alternate natural gas/light 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.
- Valves tightness control compliant with European standard EN676 in the CE execution; on request in the EXP execution.
- Add the specific kit to prepare 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.
- 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 and fuel indicator.
- 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, valves tightness control, minimum pressure switch, pressure regulator and gas filter.

Thermal output kW	Model	Part no.	Max visc. °E at 20°C	Electrical supply	Motor kW	Size of packaging L x P x H mm	Weight kg	Notes
Frequency 50 Hz								
652 ÷ 1364	COMIST 122	55010010	1,5	3N AC 50Hz 400V	2,2 + 0,37	1730 x 1030 x 880	187	4)
Frequency 60 Hz								
652 ÷ 1364	COMIST 122	55015410	1,5	3N AC 60Hz 400V	3,5 + 0,37	1730 x 1030 x 880	187	4)

Device for the automatic fuel switch-over

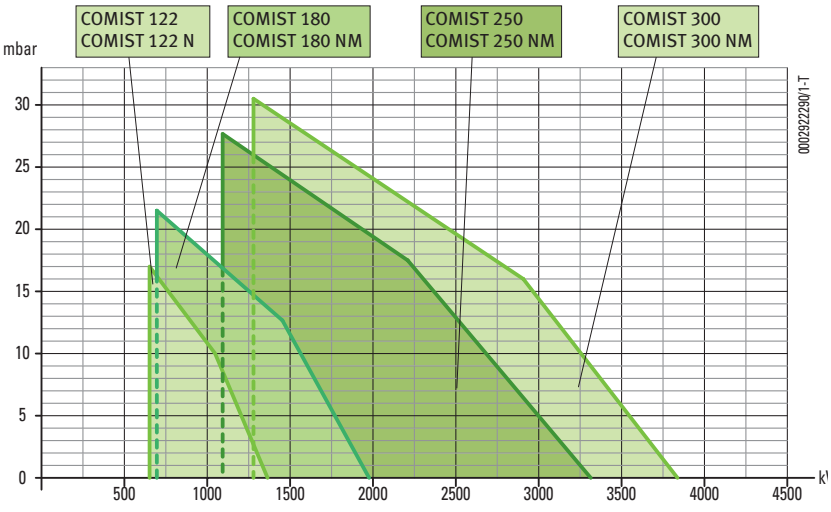
Part.no
98000371

Dual fuel burner accessories

Line filter - Flex hoses - Nozzles - 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.
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: Hi = 35,80 MJ/m^3 = 8550 kcal/m^3, at reference conditions of 0°C, 1013 mbar;
Light oil: Hi = 42,70 MJ/kg = 10200 kcal/kg.



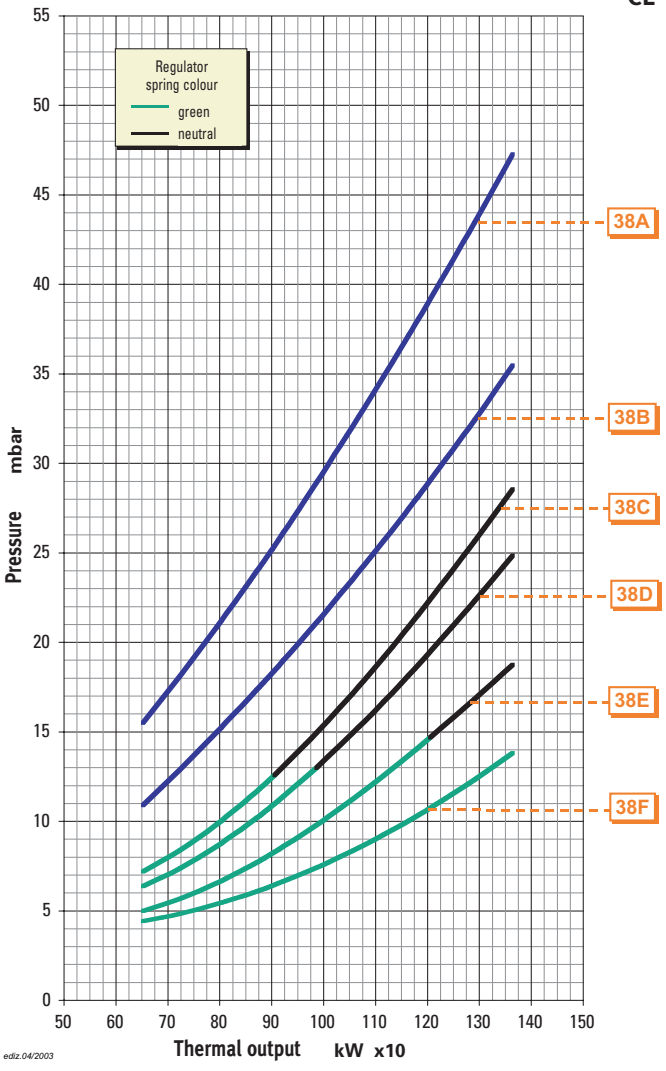
CE gas train version complies with EN676, EXP gas train version is for extra-European markets

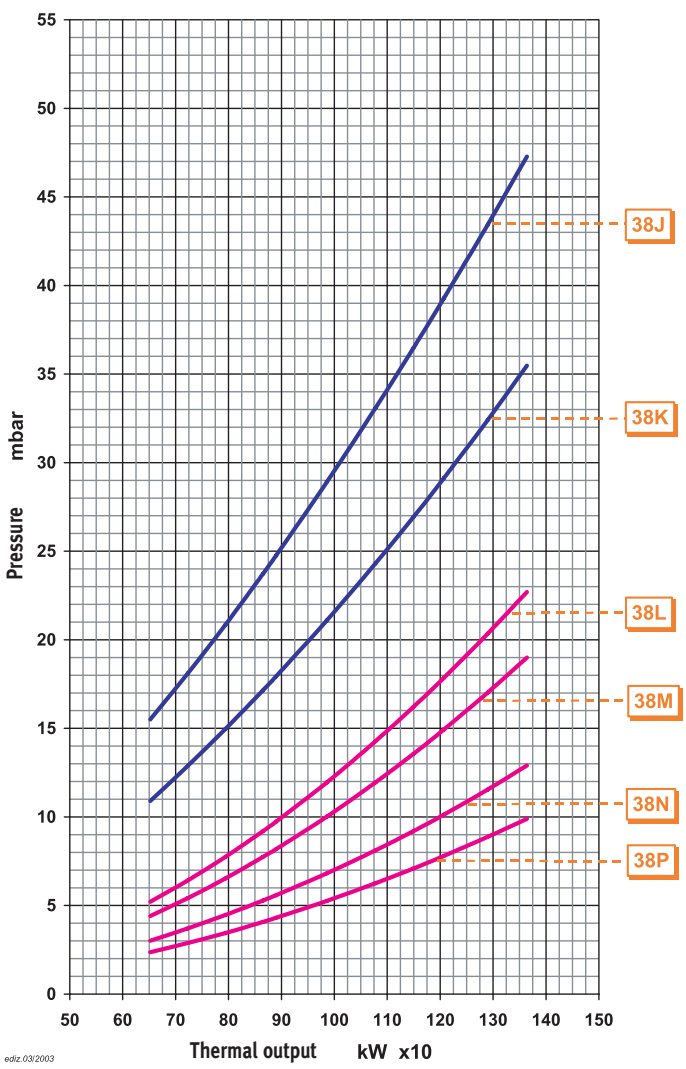
Burner model	Gas type	Version	Curve on graph	Execution	P.Max** mbar	Gas train Part no.	Regulator with incorporated filter Part no.	Burner/gas train adapter Part no.	Pic.	Notes
COMIST 122	NATURAL GAS	CE	38A	CTV	360	19990454	Included	96000009	B2	
			38B	CTV	360	19990455	Included	–	B2	
			38C	CTV	500	19990457	97390700	–	B4	6)
			38D	CTV	500	19990459	97390700	–	B4	6)
			38E	CTV	500	19990461	97390700	96005002	B5	6)
			38F	CTV	500	19990463	97390710	96005007	B5	
		EXP	38J		360	19990404	Included	96000009	B2	
				CTV	360	19990454	Included	96000009	B2	
			38K		360	19990405	Included	–	B2	
				CTV	360	19990455	Included	–	B2	
			38L		140	19990456	–	–	BE4	6)
				CTV	140	19990457	–	–	BE4	6)
			38M		140	19990458	–	–	BE4	6)
				CTV	140	19990459	–	–	BE4	6)
			38N		140	19990460	–	96005002	BE5	6)
				CTV	140	19990461	–	96005002	BE5	6)
			38P		140	19990462	–	96005007	BE5	
				CTV	140	19990463	–	96005007	BE5	

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 234.

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

COMIST 122/122N CE



Pressure drop (combustion head + gas train)

COMIST 122/122N EXP