


Flange Mounting Dimensions

L		M	N
min	max		
200	245	M12	165

TECHNICAL AND FUNCTIONAL CHARACTERISTICS

- Light oil burner.
- Two-stage operation (high/low flame).
- Ability to operate with any type of combustion chamber.
- 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 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.
- When using biodiesel light oil (fuel of vegetable origin), the burner must be built with specific components: flexible hoses, line filter and pump.
- Equipped with one 4 and 7 pole connector, one flange and one insulating seal for boiler fastening, 2 flexible hoses, one line filter and 2 nozzles.
- On request: longer blast tube, operation on biodiesel.

CONSTRUCTION CHARACTERISTICS

The burner consists of:

- Light aluminium alloy fan part.
- High performance centrifugal fan.
- Combustion air intake with air flow adjustment device.
- Sliding boiler coupling flange to adapt the head protrusion to the various types of boilers.
- Adjustable blast-pipe with stainless steel nozzle and deflector disk in steel.
- Monophase electric motor to run fan and pump.
- Device made from sound-absorbing material to reduce fan noise.
- Gear pump with pressure regulator and fuel stop-cock valves.
- Automatic control and command equipment for the burner compliant with European standard EN230.
- Flame detection by photoresistance.
- Start/stop switch, 1st /2nd stage selector (except the W version).
- 7 pole outlet for burner electrical and thermostat connections, and 4 pole outlet for second stage control.
- Electrical protection rating IP40.
- Sound-proof plastic protective cover (except the W version).

Conforms to:
 E.M.C. Directive 89/336/CEE
 L.V. Directive 73/23/CEE
 Reference standard: EN267

Thermal output kW	Model	Part no.	Max visc. °E at 20°C	Electrical supply	Motor kW	A mm	B mm	C mm	D mm	F mm	Size of packaging L x P x H mm	Weight kg	Notes
178 - 391	BTS 35	3075010	1.5	1N AC 50Hz 230V	0.37	450	372.5	780	105 - 350	135	940 x 490 x 390	32	3) 4)

Accessories available on request

Part no.	Description
97980054	Soundproof burner cover

Optionals

Description
500 mm long combustion head
Biodiesel operation

Light oil burner accessories

Line filter - Flex hoses - Nozzles - Boiler coupling kit - 4 and 7 pin plug

Notes

- 3) Soundproof lid on burner air intake.
 - 4) Equipped with automatic device for air closing.
- Net calorific value of light oil: Hi = 42.70 MJ/kg = 10200 kcal/kg.

