


**Flange Mounting Dimensions**

L		M	N
min	max	M12	165
200	245		

**TECHNICAL AND FUNCTIONAL CHARACTERISTICS**

- Light oil burner.
- Single stage operation (on/off).
- 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.
- Manual air flow adjustment.
- 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 7 pole connector, one flange and one insulating seal for boiler fastening, 2 flexible hoses, one line filter and one nozzle.
- On request: blast-pipe with greater than standard protrusion, a device for air gate closure during pause to avoid loss of heat up flue, biodiesel running.

**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 valve.
- Automatic control and command equipment for the burner compliant with European standard EN230.
- Flame detection by photoresistance.
- Start/stop switch (except the W version).
- 7 pole outlet for burner electrical and thermostat connections.
- Electrical protection rating IP40.

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	3070010	1.5	1N AC 50Hz 230V	0.37	450	372.5	780	105 - 350	135	940 x 490 x 390	30	3)

**Accessories available on request**

Part no.	Description
97980054	Soundproof burner cover

**Optionals**

Description
500 mm long combustion head
Automatic Air Closure Device
Biodiesel operation

**Light oil burner accessories**

Line filter - Flex hoses - Nozzle - Boiler coupling kit - 7 pin plug
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**Notes**

3) Soundproof lid on burner air intake.  
 Net calorific value of light oil: Hi = 42.70 MJ/kg = 10200 kcal/kg.

