



BT 120 DSNM-D 50Hz

Code: 2505010

Series: BT DSNM-D

Technical and functional features

- Heavy oil burners.
- Two-stage operation (high/low flame).
- Compatible 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.
- Comes with 2 flexible oil pipes, 1 self cleaning and heated heavy oil filter, 1 flange and 1 insulating seal to connect the burner to the application. Nozzle must be ordered separately according to the burner nominal output required..

BT 120 - 180 - 250 - 300 - 350 DSNM-D

Design features

- Light aluminium alloy fan part.
- High performance centrifugal fan.
- Combustion air inlet with device to adjust the air flow.
- 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.
- A three-phase electric motor to run fan and another to run the pump.
- Air pressure switch to ensure the presence of combustion air.
- Gear pump with pressure regulator and fuel stop-cock valves.
- Heating resistor for the pump, regulator valve and the atomisation unit.
- Atomisation unit with magnet to control the outlet/nozzle return pins.
- Sequence controller - EN 230..
- Photoresistance flame scanner.
- Control panel comprising stop/go switch, 1st/2nd stage selector, and operation, block and pre-heating resistors on indicators.
- Terminal block for the electrical and thermostatic connections to the burner and to control the second stage of working.
- Electrical plant protection rating IP40.

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- Electrical fuel preheater including antigas valve, self-cleaning filter, thermometer, regulation and minimum thermostats; safety thermostat excluding BT 120.

Available version on request

- Burner may be integrated with a steam-operated supplementary fuel oil preheater which allows fuel oil to be heated with steam from the boiler during regular operation, saving electricity.
- Steam pre-heater.

Technical Data - BT 120 DSNM-D 50Hz:

Minimum Rated output	669	kW
Maximum Rated output	1451	kW

Minimum oil flow rate	60	kg/h
Maximum oil flow rate	130	kg/h
Fuel max viscosity	50	°E
Motor rated power	3.3	kW
Tank resistors rated power	10.5	kW
Electric Power Supply Phase	3	N
Electric Power Supply Frequency 1	50	Hz
Electric Power Supply Current	AC	
Electric Power Supply Voltage	400	V
Width	910	mm
Height	610	mm
Depth	1400	mm
Weight	175	kg
Pack Width	1730	mm
Pack Height	880	mm
Package depth	1030	mm
Weight of Packaging	230	kg