



## BT 120 DSPN 50Hz

Code: 2620010

Series: BT DSPN

### Technical and functional features

- Heavy oil burners.
- Two-stage progressive output operation.
- Ability to operate with output modulation by means of automatic RWF40 regulator mounted on the control panel (order separately with the specific modulation kit).
- 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.
- Minimum and maximum 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 heavy oil of viscosity up to 50°E at 50°C, add the kit (to be ordered separately) consisting of: self-cleaning line filter with resistor and thermostat and resistors for pump and pressure regulator valve.
- Comes with 2 flexible oil pipes, 1 oil filtre, 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..

### Design features

BT 75 - 100 DSPN

- When using low sulphur heavy oil, add the kit (to order separately) consisting of: specific line filter, stainless steel flexible hoses and resistors for pump and pressure regulator valve.

BT 120 - 180 - 250 - 300 - 350 DSPN

- When using low sulphur heavy oil, add the kit (to order separately) consisting of: specific line filter, stainless steel flexible hoses and resistors for pump and pressure regulator valve.
- 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.
- Electric servomotor with mechanical cam for simultaneous regulation of combustion air and fuel.
- Gear pump with pressure regulator.
- Atomisation unit with magnet to control the outlet/nozzle return pins.
- Sequence controller - EN 230..
- Photoresistance flame scanner.
- Terminal block for the electrical and thermostatic connections to the burner and to control the second stage of working or for the connection of the electronic output regulator.
- Electrical plant protection rating IP40.

BT 75 - 100 DSPN

- Electrical fuel preheater comprising antigas valve, self-cleaning filter, thermometer and minimum and regulation thermostat.
- Control panel comprising stop/go switch, automatic/manual and minimum/maximum selector, and operation, block and pre-heating resistors on indicators.

BT 120 - 180 - 250 - 300 - 350 DSPN

-Electrical fuel preheater comprising antigas valve, self-cleaning filter, thermometer, minimum and regulation thermostat; security thermostat excluded BT 120.

-Control panel comprising stop/go switch, 1st/2nd stage selector, and operation, block and pre-heating resistors on indicators.

### 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 DSPN 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	7	°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	685	mm
Depth	1400	mm
Weight	169	kg
Pack Width	1730	mm
Pack Height	880	mm
Package depth	1030	mm
Weight of Packaging	224	kg