



## BT 180 DSN 4T 50Hz

Code: 2086010

Series: BT DSN 4T

### 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.
- Fuel oil with a viscosity of up to 20°E at 50°C may be used by adding to the burner a kit including: Heating elements for pump. Heating elements for spray nozzle unit. Heating elements for 1st and 2nd stage solenoid valves.
- When using low sulphur heavy oil, add the kit (to order separately) consisting of: Specific oil filter. Stainless steel flexible hoses and resistors for pump. Spray nozzle unit. 1st and 2nd stage solenoid valves.

BT 40 - 50 - 75 - 100 DSN 4T

- Comes with 2 flexible oil pipes, 2 nozzles, 1 oil filter, 1 flange and 1 insulating seal to connect the burner to the application.

BT 120 - 180 DSN 4T

- Comes with 2 flexible oil pipes, 2 nozzles, 1 oil filter, 1 flange and 1 insulating seal to connect the burner to the application.

BT 250 - 300 - 350 DSN 4T

- Comes with 2 flexible oil pipes, 3 nozzles, 1 oil filter, 1 flange and 1 insulating seal to connect the burner to the application.

### 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.
- Three-phase electric motor to run fan and pump.
- Gear pump with pressure regulator and fuel stop-cock valves.
- Atomisation unit with nozzle-closing pin.
- 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.

BT 40 - 50 - 75 - 100 DSN 4T

- Electrical fuel preheater comprising antigas valve, filter, thermometer and minimum and regulation thermostat.

BT 120 - 180 DSN 4T

- Electrical fuel preheater comprising antigas valve, filter, thermometer, minimum and regulation thermostat; security thermostat excluded BT 180.

BT 250 - 300 - 350 DSN 4T

- Electrical fuel preheater comprising antigas valve, filter, thermometer, regulation thermostats and minimum safety device.

### 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.
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### Technical Data - BT 180 DSN 4T 50Hz:

Minimum Rated output	725	kW
Maximum Rated output	2009	kW
Minimum oil flow rate	65	kg/h
Maximum oil flow rate	180	kg/h
Fuel max viscosity	7	°E
Motor rated power	3	kW
Tank resistors rated power	15	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	915	mm
Height	650	mm
Depth	1645	mm
Weight	185	kg
Pack Width	1730	mm
Pack Height	880	mm
Package depth	1030	mm
Weight of Packaging	240	kg