

BT...DSPG

From 415 to 2135 kW

Conform to:
E.M.C. Directive 89/336/CEE
L.V. Directive 73/23/CEE



Two-stage progressive/modulating light oil burners



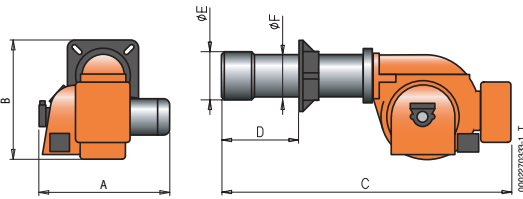
TECHNICAL AND FUNCTIONAL CHARACTERISTICS

- Two-stage progressive output operation.
- Ability to operate with output modulation by means of automatic RWF40 regulator mounted on the control panel (to be ordered separately with the modulation kit).
- 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.
- Equipped with one flange and one insulating seal for boiler fastening, 2 flexible hoses, one line filter; nozzle not included, to be ordered separately depending on the required flow.

CONSTRUCTION CHARACTERISTICS

The burner consists of:

- Combustion air intake with air flow adjustment device.
- Sliding boiler coupling flange to adapt the head protrusion to the various types of boilers.
- 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.
- Automatic control and command equipment for the burner compliant with European standard 0
- Flame detection by photoresistance.
- On-board terminal box and separate control panel comprising stop/go switch, automatic/manual and minimum/maximum selector, operation and block indicator.
- 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 protection rating IP40.



Model	A mm	B mm	C mm	D mm	E mm	F mm
BT 75 DSPG	595	510	1215	130 ÷ 450	205	160
BT 100 DSPG	670	525	1415	210 ÷ 400	230	195
BT 120 DSPG	770	610	1415	155 ÷ 500	230	195
BT 180 DSPG	815	650	1700	200 ÷ 535	260	220

Thermal output kW	Model	Part no.	Max visc. °E at 20°C	Electrical supply	Motor kW	Size of packaging L x P x H mm	Weight kg	Notes
Frequency 50 Hz								
415 ÷ 889	BT 75 DSPG	3510010	1,5	3N AC 50Hz 400V	1,1	1730 x 1030 x 880	140	4)
533 ÷ 1186	BT 100 DSPG	3514010	1,5	3N AC 50Hz 400V	1,5	1730 x 1030 x 880	150	4)
474 ÷ 1660	BT 120 DSPG	3518010	1,5	3N AC 50Hz 400V	2,2	1730 x 1030 x 880	175	4)
712 ÷ 2135	BT 180 DSPG	3522010	1,5	3N AC 50Hz 400V	3,0	1730 x 1030 x 880	220	4)
Frequency 60 Hz								
415 ÷ 889	BT 75 DSPG	35105410	1,5	3N AC 60Hz 400V	1,5	1730 x 1030 x 880	140	4)
533 ÷ 1186	BT 100 DSPG	35145410	1,5	3N AC 60Hz 400V	2,6	1730 x 1030 x 880	150	4)
474 ÷ 1660	BT 120 DSPG	35185410	1,5	3N AC 60Hz 400V	3,5	1730 x 1030 x 880	175	4)
712 ÷ 2135	BT 180 DSPG	35225410	1,5	3N AC 60Hz 400V	3,5	1730 x 1030 x 880	220	4)

To complete the burner

Nozzle with 1-3 ratio (see page 231).

Modulating mode

Part.no

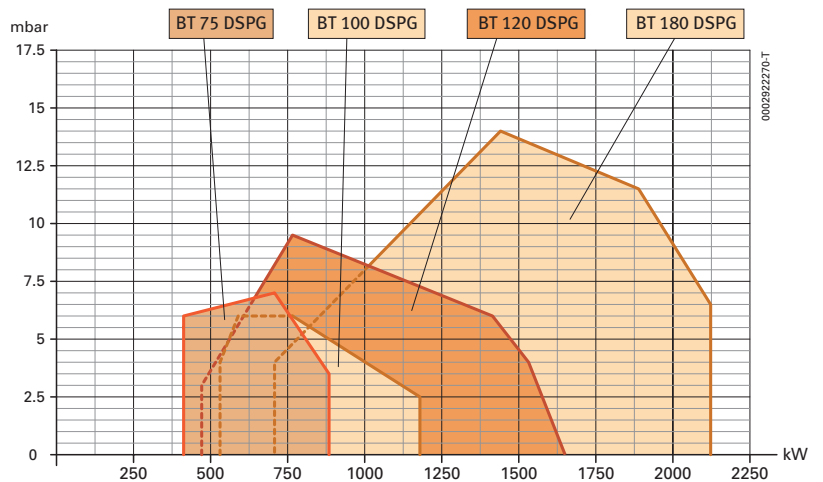
98000051 Kit RWF 40 - Modulation kit (see page 230).

Light oil burner accessories

Line filter - Flex hoses - Boiler coupling kit

Notes

4) Equipped with air closure device.
Net calorific value of light oil: Hi = 42,70 MJ/kg = 10200 kcal/kg.



BT...DSPG

From 873 to 3854 kW

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L.V. Directive 73/23/CEE



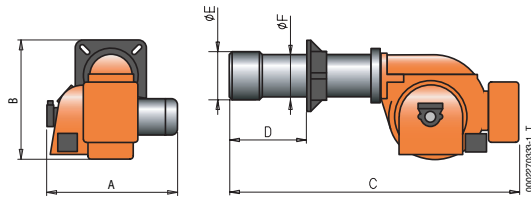
TECHNICAL AND FUNCTIONAL CHARACTERISTICS

- Two-stage progressive output operation.
- Ability to operate with output modulation by means of automatic RWF40 regulator mounted on the control panel (to be ordered separately with the modulation kit).
- 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.
- Equipped with one flange and one insulating seal for boiler fastening, 2 flexible hoses, one line filter; nozzle not included, to be ordered separately depending on the required flow.

CONSTRUCTION CHARACTERISTICS

The burner consists of:

- Combustion air intake with air flow adjustment device.
- Sliding boiler coupling flange to adapt the head protrusion to the various types of boilers.
- 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.
- Automatic control and command equipment for the burner compliant with European standard EN230.
- Flame detection by photoresistance.
- On-board terminal box and separate control panel comprising stop/go switch, automatic/manual and minimum/maximum selector, operation and block indicator.
- 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 protection rating IP40.



Model	A mm	B mm	C mm	D mm	E mm	F mm
BT 250 DSPG	1000	740	1700	235 ÷ 560	260	220
BT 300 DSPG	1000	800	1900	245 ÷ 605	360	275

Thermal output kW	Model	Part no.	Max visc. °E at 20°C	Electrical supply	Motor kW	Size of packaging L x P x H mm	Weight kg	Notes
Frequency 50 Hz								
873 ÷ 3186	BT 250 DSPG	3526010	1,5	3N AC 50Hz 400V	7,5	2030 x 1210 x 990	256	4)
1304 ÷ 3854	BT 300 DSPG	3530010	1,5	3N AC 50Hz 400V	7,5	2030 x 1210 x 990	290	4)
Frequency 60 Hz								
873 ÷ 3186	BT 250 DSPG	35265410	1,5	3N AC 60Hz 400V	9	2030 x 1210 x 990	256	4)
1304 ÷ 3854	BT 300 DSPG	35305410	1,5	3N AC 60Hz 400V	9	2030 x 1210 x 990	290	4)

To complete the burner

Nozzle with 1-3 ratio (see page 231).

Modulating mode

Part.no

98000051 Kit RWF 40 - Modulation kit (see page 230).

Light oil burner accessories

Line filter - Flex hoses - Boiler coupling kit

Notes

4) Equipped with air closure device.
Net calorific value of light oil: Hi = 42,70 MJ/kg = 10200 kcal/kg.

