



TBL 210 P



BT 180 DSPG

Light oil burner. Operation:

Continuous modulation operation by installing P.I.D. controller in the control panel (to be ordered separately with modulation probe).

Modulation ratio:

Low NOx and CO emissions light oil burner according to European standard EN267:

Adjusting the combustion head.

Maintenance facilitated by the possibility of removing the combustion head without having to remove the burner from the boiler.

High ventilation efficiency, low electrical input, low noise.

Sliding boiler coupling flange to adapt the blast-pipe to the various types of boilers.

Combustion air intake with butterfly valve. Air flow adjustment:

Fully closing air damper on shutdown to avoid loss of heat through the chimney.

Combustion air intake designed to achieve optimum linearity of the air gate opening.

Device made of sound-absorbing material to reduce fan noise.

Fuel supply circuit made of gear pump with pressure adjustment, shut-off valves and safety valve.

Fuel supply circuit made of gear pump with pressure adjustment and control flow valve.

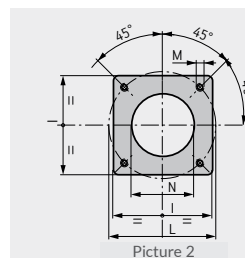
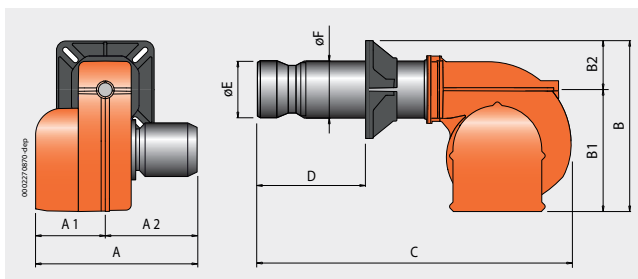
Atomisation unit with magnet to control the outlet/nozzle return pins.

Flame detection by photoresistance.

Control panel with display diagram for working mode with indication lights.

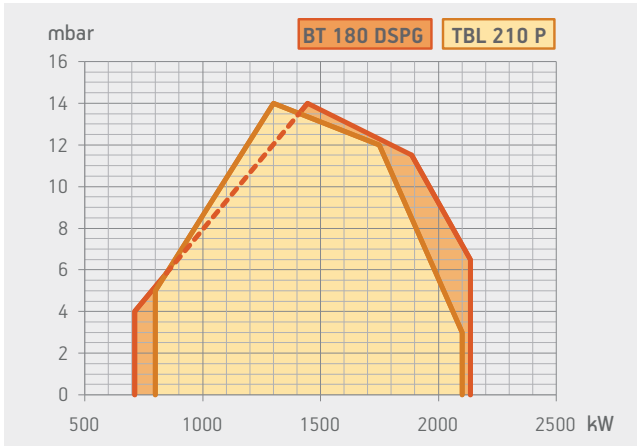
Electric protection rating:

	TBL 210 P	TBL 210 P DACA	BT 180 DSPG
	two-stage	two-stage	mechanical two-stage progressive
Continuous modulation operation by installing P.I.D. controller in the control panel (to be ordered separately with modulation probe).			•
Modulation ratio:			1:3
Low NOx and CO emissions light oil burner according to European standard EN267:	class 2	class 2	
Adjusting the combustion head.	•	•	•
Maintenance facilitated by the possibility of removing the combustion head without having to remove the burner from the boiler.	•	•	•
High ventilation efficiency, low electrical input, low noise.	•	•	
Sliding boiler coupling flange to adapt the blast-pipe to the various types of boilers.	•	•	•
Combustion air intake with butterfly valve. Air flow adjustment:	hydraulic jack	electric servomotor	mechanical cam
Fully closing air damper on shutdown to avoid loss of heat through the chimney.		•	•
Combustion air intake designed to achieve optimum linearity of the air gate opening.	•	•	
Device made of sound-absorbing material to reduce fan noise.		•	
Fuel supply circuit made of gear pump with pressure adjustment, shut-off valves and safety valve.	•	•	
Fuel supply circuit made of gear pump with pressure adjustment and control flow valve.			•
Atomisation unit with magnet to control the outlet/nozzle return pins.			•
Flame detection by photoresistance.	•	•	•
Control panel with display diagram for working mode with indication lights.	•	•	
Electric protection rating:	IP40	IP40	IP40



Flange dimensions and boiler drilling template.

Model	A mm	A1 mm	A2 mm	B mm	B1 mm	B2 mm	C mm	D mm	E mm	F mm	I mm	L mm	M mm	N mm	Pic.
TBL 210 P	680	310	370	540	380	160	1300	210 ÷ 450	250	219	320	280 ÷ 370	M12	255	2
TBL 210 P DACA	680	310	370	540	380	160	1300	210 ÷ 450	250	219	320	280 ÷ 370	M12	255	2
BT 180 DSPG	815	390	425	650	450	200	1700	200 ÷ 535	260	220	320	280 ÷ 370	M12	230	2



Model	Size of packaging			Weight kg
	L	P	H	
TBL 210 P	1070	800	700	94
TBL 210 P DACA	1070	800	700	94
BT 180 DSPG	1730	1030	880	220

Emissions class	Thermal output kW	Model	Part no.	Max visc. °E at 20°C	Electrical supply	Motor kW	Notes
Frequency 50 Hz							
class 2	800 ÷ 2100	TBL 210 P	36000020	1,5	3N AC 50Hz 400V	3,0	15)
class 2	800 ÷ 2100	TBL 210 P DACA	36000010	1,5	3N AC 50Hz 400V	3,0	3) 4) 15)
	712 ÷ 2135	BT 180 DSPG	3522010	1,5	3N AC 50Hz 400V	3,0	4)
Frequency 60 Hz							
class 2	800 ÷ 2100	TBL 210 P	36005420	1,5	3N AC 60Hz 380V	3,0	15)
class 2	800 ÷ 2100	TBL 210 P DACA	36005410	1,5	3N AC 60Hz 380V	3,0	3) 4) 15)
	712 ÷ 2135	BT 180 DSPG	35225410	1,5	3N AC 60Hz 380V	3,5+1,3	4)

TO COMPLETE THE BURNER

DESCRIPTION
BT 180 DSPG: nozzle with 1 ÷ 3 ratio (see page 295)

MODULATING MODE

DESCRIPTION	PART NO.
BT 180 DSPG: modulation kit	98000055
BT 180 DSPG: modulating probe (see page 294)	

OPTIONALS

DESCRIPTION
Biodiesel operation (5)

NOTES

- 3 Soundproof lid on burner air intake.
 - 4 Equipped with air closure device.
 - 5 Biodiesel according to european norm EN14213-FAME.
 - 15 Reference standard: EN267.
- Net calorific value of light oil: Hi = 42,70 MJ/kg = 10200 kcal/kg.

ACCESSORIES AVAILABLE ON REQUEST

DESCRIPTION	PART NO.
TBL 210 P/210 P DACA: soundproof burner cover (see page 299)	97980053
BT 180 DSPG: soundproof burner cover (see page 299)	97980057

LIGHT OIL BURNER ACCESSORIES

TBL 210 P/210 P DACA: line filter, flex hoses, nozzles, boiler coupling kit, plug for wiring.
BT 180 DSPG: line filter, flex hoses, boiler coupling kit.