



TBG 85 PV 50Hz

Code: 17480020

Series: TBG PV

Technical and functional features

- Gas-fired burners, EN676.
- Two-stage operation (high/low flame).
- Compatible with any type of combustion chamber, according to EN303 standard..
- High blowing efficiency, low electrical input, low noise.
- Air-gas mixing at blast-pipe.
- Maintenance facilitated by the fact that the mixing unit can be removed without having to remove the burner from the boiler.

TBG 45 - 60 PV

- Low NOx and CO gas-fired burners, EN676 "Classe III".
- Burnt gas recycling blast-pipe able to achieve very low pollutant emissions, particularly with regard to nitrous oxides (NOx).
- Regulation of air flow rate for first and second stage with damper closure on standby to prevent in-flue heat dispersion.
- Gas regulation by means of a two-stage working valve that is electromagnetically driven.
- Ability to add a valves seal control device to the train.
- Comes with 4 and 7-poles connectors, 1 flange and 1 insulating seal to connect the burner to the application.

TBG 85 PV

- Gas adjustment by two-stage electronic valve.
- Partial combustion gas recirculation blast-pipe with low NOx emissions (class II).
- Ambidextrous hinged combustion head allowing an easy maintenance access without removing the burner from the boiler..
- Air capacity adjustment with linear opening controlled by electric servo motor.
- Automatic closure of the air damper during stand-by..
- Electrical panel that connects by 4 and 7 pole plugs/sockets provided.
- Electrical panel with protection rating of IP 55.
- Sliding boiler coupling flange to adapt to the head protrusion of the various types of boilers.

Design features

- Light die-cast aluminium ventilation unit.
- Air intake with butterfly gate for the regulation of the air combusting flow rate, with sound insulation and designed for optimal air damper opening linearity.
- 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.
- Flame viewer.
- Air pressure switch to ensure the presence of combustion air.
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- Flame scanning by ionisation electrode.
- Built-in PCB into the control panel .
- Error proof connectors for gas train electrical supply.
- 7 pole outlet for burner electrical and thermostat supply, and 4 pole outlet for second stage control.
- Prepared for microamperometer connection with ionisation cable.

-Electrical protection rating IP44.

TBG 45 - 60 PV

- High performance centrifugal fan.

- Mono-phase electric motor to run fan for TBG 45, three-phase for TBG 60.
 - Synoptic control panel with led of operation and block and burner off, operation and block indicator.
 - Sequence controller - EN 298..
 - Gas train including safety and 1°/2° stage working valve that is electromagnetically driven, minimum pressure gange, pressure adjuster and gas filter.
- TBG 85 PV**
- Centrifugal fan in light aluminum alloy.
 - Three-phase light aluminum alloy electric motor. .
 - Combustion air input with sound insulation and designed for optimal air damper opening linearity.
 - Light die-cast aluminium alloy electrical panel.
 - Built-in PCB into the control panel .
 - Control panel with display diagram for working mode with indication lights, start/stop switch, 1st and 2nd stage selector and burner unblocking button.
 - Electronic sequence controller with diagnosic lamps - EN 298..
 - Gas train with safety valve and 1st and 2nd stage working, minimum pressure switch, pressure regulator and filter.
 - Error proof connectors for gas train electrical supply.

Technical Data - TBG 85 PV 50Hz:

Minimum Rated output	170	kW
Maximum Rated output	850	kW
Minimum gas flow rate	17.1	m3/h
Maximum gas flow rate	85	m3/h
Motor rated power	1.1	kW
Electric Power Supply Phase	1	N
Electric Power Supply Frequency 1	50	Hz
Electric Power Supply Current	AC	
Electric Power Supply Voltage	230	V
Width	645	mm
Height	520	mm
Depth	1230	mm
Weight	57	kg
Pack Width	1080	mm
Pack Height	700	mm
Package depth	770	mm
Weight of Packaging	78	kg