TBG 120 PN 50Hz

Code: 17560010

Series: TBG PN

Technical and functional features

-Low NOx and CO gas-fired burners, EN676 "Classe III".
-Two-stage progressive/modulating 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).
-Compatible with any type of combustion chamber, according to EN303 standard..
-Burnt gas recycling blast-pipe able to achieve very low pollutant emissions, particularly with regard to nitrous oxides (NOx).
-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.
-Fan speed adjustment in relation to changes in burner demand provided by means of inverter, to obtain a significant reduction in noise levels and electricity consumption (version V only).
-Gas regulation by means of a proportional working valve that is pneumatically driven.
-Ability to add a valves seal control device to the train.
TBG 45 - 60 PN
-Regulation of air flow rate for first and second stage with damper closure on standby to prevent in-flue heat dispersion.
-Air capacity adjustment with linear opening controlled by electric servomotor.
-Modulation ratio 1:4.
-Comes with 4 and 7-poles connectors, 1flange and 1 insulating seal to connect the burner to the application.
TBG 85 - 120 - 150 - 210 PN
-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.
-Modulation ratio 1:3.

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.
-Gas train gas with safety valve and pneumatically activated proportional working, minimum pressure switch, pressure regulator and gas filter.
-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 connections, and 4-pole outlet for second stage control or for the connection of the capacity electronic regulator.
-Prepared for microamperometer connection with ionisation cable.
-Electrical protection rating IP44.
TBG 45 - 60 PN
-High performance centrifugal fan.
-Mono-phase electric motor to run fan for TBG 45, three-phase for TBG 60 (variable speed drive with V version)..
-Synoptic control panel with led of operation and block and burner off, operation and block indicator.
-Sequence controller - EN 298..
TBG 85 - 120 - 150 - 210 PN
-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.
-Control panel with display diagram for working mode with indication lights, start/stop switch, automatic/manual mode selector, minimum/maximum selector and enabled for installation of RWF40 regulator.
-Electronic sequence controller with diagnosic lamps - EN 298..

Technical Data - TBG 120 PN 50Hz:

Minimum Rated output	240	kW
Maximum Rated output	1200	kW
Minimum gas flow rate	24.1	m3/h
Maximum gas flow rate	121	m3/h
Motor rated power	1.5	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	645	mm
Height	540	mm
Depth	1280	mm
Weight	66	kg
Pack Width	1080	mm
Pack Height	700	mm
Package depth	770	mm
Weight of Packaging	87	kg