

Constant pressure control

EBC22

The EBC22 is an automatic control system for single and multiple gas boiler installations and for other installations in which singular or multiple heat sources are connected to the same chimney. The control may only be used with exodraft fans. The EBC22 system consists of an EBC22 controller, which can be positioned anywhere, and a pressure transducer (XTP 150G sensor) which is positioned near the chimney. The EBC22 control is approved accordingly to the gas directive by Kiwa Gastec.

The EBC22 controller monitors and maintains a specific draught by maintaining a constant pressure. The pressure in the chimney is measured by the XTP 150G sensor. If the draught falls outside the set point value the speed of the fan is modulated to achieve the target draught. If it is not possible to maintain the draught at or above the set point then the controller will automatically disconnect the boiler(s).

The correct chimney draught gives optimal operating conditions for the boiler(s), and in so doing provides the best possible financial return on the heating system.

When the boiler thermostat signals the need for heat, the chimney fan is set to full speed. Once the control unit measures sufficient draught (via the XTP sensor), the boiler(s) are allowed to start up. Should the draught drop below preset value, the boilers will be shut off, but only after a delay of 15 seconds in order to avoid unnecessary cut-outs in the system.

Features

- Input and output to 2 boilers (standard)
- Easy to install
- Easy to set-up (icon-based user interface)
- Operational conditions monitored on all input and outputs using diodes
- Unique dual safety sensor

Additional options

By changing the set-up the EBC22:

- can function as a 2-stage regulator
- can function as a controller for boiler room ventilation
- has special start/stop temperature input (solid fuel and oil only)



Additional notes

Approval Approved accordingly to the gas directive by Kiwa Gastec

Product standard

Disclaimer

Technical data

Description	EBC22 EBC22EU01/EBC22EU02
Height x width x depth	204,3 x 239,5 x 77,2 mm
Weight	1,62 kg
IP-rating / material	IP54 / ABS PA758
Voltage	230 V AC $\pm 10\%$, 50 Hz $\pm 1\%$
Max power consumption	475 W
Fuse	T4A
Temperature	-20 °C to 60 °C
Monitoring range	500 Pa to +500 Pa
Sensor	XTP 150G
Dimension (w x h x d)	115 x 90 x 55 mm
Operating temperature	0 °C to +70 °C
Monitoring range	0 Pa to +150 Pa
Max distance between EBC20 and XTP sensor	100 m
IP-rating	IP54
mA	75
EBC22 Inputs	
Digital inputs (D11 & D12)	18 to 230 V AC/DC
Pressure sensor (XTP) input	0 to 10 V DC, 20 mA
Pressure switch (PDS) input	24 V DC, 20 mA
Temperature sensor PT1000	Accessory number: 1100755
EBC22 Outputs	
Digital relay outputs (DO1 & DO2)	250 V AC, 5A
Motor regulator	-3 %, 3 A, AC3
Motor start/stop relay	250 V AC, 8A
Control signal 0–10 VDC	20 mA
24 V DC power supply	100 mA
Alarm output relay	250 V AC, 8A
Approval	CE mark, Kiwa Gastec

The EBC22 can be used with all Exodraft chimney fan types.

EBC22EU01 Control for indoor installation.

EBC22EU02 Control for outdoor installation.



XTP 150G Sensor

