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)



| 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 ±10 %, 50 Hz ±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 | |

250 V AC, 5A

-3 %, 3 A, AC3 250 V AC, 8A

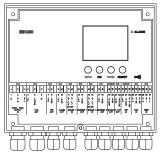
250 V AC, 8A

CE mark, Kiwa Gastec

20 mA 100 mA



XTP 150G Sensor



RD11898

DS_EBC22_UK | 190723 | Subject to technical changes and typographical errors | Exodraft a/s | www.exdraft.com

The EBC22 can be used with all Exodraft chimney fan types. EBC22EU01 Control for indoor installation.

EBC22EU02 Control for outdoor installation.

Digital relay outputs (DO1 & DO2)

Motor regulator

Motor start/stop relay Control signal 0–10 VDC

24 V DC power supply

Alarm output relay

Approval

