



Constant pressure control EBC20

The EBC20 is an automatic control system for single and multiple 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 EBC20 system consists of an EBC20 controller, which can be positioned anywhere, and a pressure transducer (XTP sensor) which is positioned near the chimney.

The EBC20 controller monitors and maintains a specific pressure by controlling the speed of a chimney fan. The pressure in the chimney is measured by the XTP 150 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

Additional options

By changing the set-up the EBC20:

- can function as a 2-stage regulator
- can function as a controller for boiler room ventilation
- can be used for solid fuel and pellet boilers.

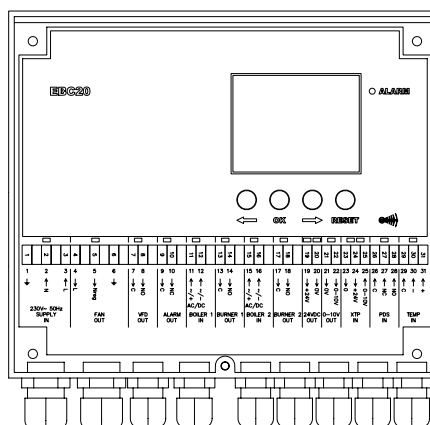
Additional notes

Approval	CE mark
Product standard	
Disclaimer	Not GASTEC approved

Technical data



XTP 150 Sensor



Description	EBC20
	EBC20EU01/EBC20EU02
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 (3,7 A)
Fuse	T4A
Temperature	-20 °C to +60 °C
Monitoring range	-500 to +500 Pa
Sensor	XTP 150
Dimension (w x h x d)	75 x 92 x 49 mm
Operating temperature	0 to 70 °C
Monitoring range	0 to +150 Pa (0 to 250 Pa)
Max. distance between EBC20 and XTP sensor	100 m
IP-rating	IP54
mA	30
EBC20 Inputs	
Digital inputs (D11 & D12)	18-230 V AC/DC
Pressure sensor (XTP) input	0 to 10 V DC, 20 mA
Pressure switch (PDS) input	24 V DC, 20 mA
EBC20 Outputs	
Digital relay outputs (DO1 & DO2)	250 V AC, 8 A,
Motor regulator	Supply voltage -3 %, 3 A
Motor start/stop relay	250 V AC, 8 A
Control signal 0–10 VDC	20 mA
24 VDC power supply	100 mA
Alarm output relay	250 V AC, 8 A
Approval	CE mark

The EBC20 can be used with all **exodraft** chimney fan types.

EBC20EU01 Control for indoor installation.

EBC20EU02 Control for outdoor installation.