

EBC20 Control system



EXHAUSTO


FOR A BETTER FLOW



EBC20 - Product information



Description

The EBC20 is a control unit specially developed to manage constant pressure control of chimney draughts () for various types of boilers:



Usage

The EBC20 can be used with the following types of boilers:

- GAS (1-stage boiler, 2-stage boiler, modular boiler, multi-boiler applications).
- OIL (1-stage boiler, 2-stage boiler, modular boiler, multi-boiler applications).
- Both atmospheric and forced draught burners.
- SOLID FUEL (stokers, pellet boilers)

The control unit may only be used with EXHAUSTO fans.

By changing the set-up, the EBC20 can also:

- Control the supply of fresh air to the boiler room ()
- Function as a 2-stage regulator ()
- Control positive pressure systems

Standard delivery:

- Control system
- Pressure transducer (XTP)

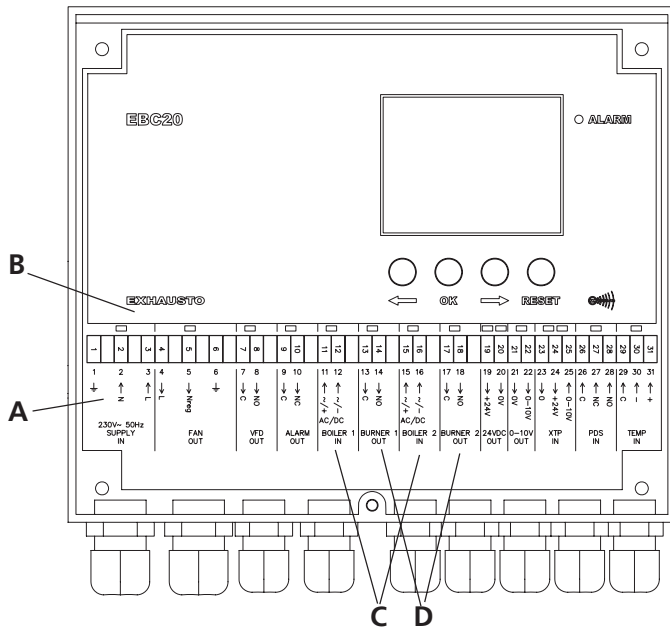
Function

The control unit monitors and maintains a set chimney draught. 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 fired. Should the fan be unable to achieve and maintain the preset value, the boiler(s) will be disconnected after a delay of 15 seconds. The delay is to avoid unnecessary cut-outs in the system. The correct chimney draught gives optimal operating conditions for the boiler(s) linked to the control unit, and in doing so provides an economical and efficient heating system.

Features

- Input and output to 2 boilers – standard
- Easy to install (plenty of space in the control box)
- Easy to set-up (user interface with symbols)
- Operational conditions monitored on all input and outputs using diodes
- Adjustable minimum output voltage
- Adjustable pre- and post-purge periods
- External input for PDS or alarm (e.g. CO₂ sensor)
- Alarm output option for e.g. facility management system
- Adjustable alarm limit and delay
- Alarmlog with alarmcodes for easy troubleshooting

EBC20 - Technical data



EBC20	
General	
Product code	EBC20EU01
Height x width x depth	204x240x77mm
Weight	1.62kg
Protection class / casing material	IP54 / Polycarbonate
Voltage (A)	230 VAC \pm 10%, 50Hz \pm 1%
Power consumption	475W (3.7A)
Fuse (B)	T4A
Temperature	-20°C to 60°C
Monitoring range	-500Pa to +500Pa
Inputs	
Digital inputs (DI1 & DI2) (C)	10V to 230V, AC/DC
Pressure sensor, input (XTP)	0 to 10VDC, 20mA
Pressure switch input (PDS)	24VDC, 20mA
Outputs	
Digital output relays (DO1 & DO2) (D)	250VAC, 8A (AC3)
Motor regulator	Supply voltage -3%, 3A (AC3)
Motor start/stop relay	250VAC, 8A (AC3)
Control signal 0-10VDC	20mA
24VDC power supply	100mA
Alarm output relay	250VAC, 8A (AC3)
XTP sensor	
Height x width x depth	75x92x49 mm
Protection class:	IP54
Temperature	0°C to 70°C

**EXHAUSTO provides a two-year manufacturer's guarantee.
EXHAUSTO has been certified in accordance with the ISO 9001 standard.**

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