

EXHAUSTO

Modulating Fan Control EBC 12

Description

The EXHAUSTO EBC 12 is a Modulating Fan Control used with single appliances where it monitors and maintains a constant draft or pressure in a chimney or duct. This is achieved by modulating the speed of chimney fan or ventilator and it can be used with EXHAUSTO Models RSV, BESF and BESB. It can control the fan speed directly or via a Variable Frequency Drive (VFD).

Typical uses are: 1) Controlling the draft for a single appliance whether ON/OFF or modulating type, 2) Controlling the duct pressure from dryers in a laundry facility, or 3) Maintaining a neutral or negative pressure in common ducts serving range hoods, clothes dryers or bathroom fans.

Functions

The control monitors the draft in a chimney system via the connection to a pressure sensor (XTP) attached to the chimney, and maintains it by modulating the fan speed. The control has an integrated safety system that assures the heating appliance is shut down in case of fan failure or control failure.

The use of the EBC 12 is not restricted to any type of fuel or type of heating appliance. When the appliance thermostat closes and calls for heat, the control will send maximum voltage to the chimney fan or VFD. When the necessary draft is achieved, the control will allow boiler firing and regulate the voltage to the fan or VFD, so the required draft is maintained (the value can be viewed in the display). In case of insufficient draft, the control will assure the burner will be shut down after 12 seconds. When the appliance has satisfied the thermostat and shuts down, the control will turn off the fan.

The control can be used in one of two ways:

- Interlocked with the appliance so it pre-purges the chimney prior to the boiler start and with a 3 minute post-purge after boiler stop.

or

- Set to run the fan continuously.

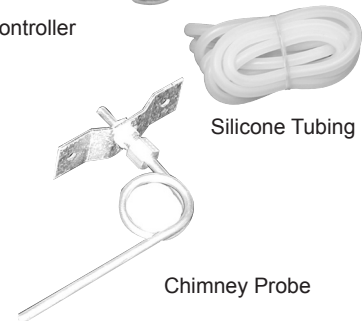
Specifications are subject to change without notice.



Controller



XTP-Sensor



Chimney Probe

Silicone Tubing

Material

The housing is made of plastic and has a clear cover. It has an IP 54/NEMA 12 rating.

Standard Equipment

Control box, XTP-sensor and stack probe with 6' silicone tubing.

Listings

ETL listing # E1090205550D

UL508-Standard for Industrial Control equipment

CSA C22.2 No. 14-95 - Standard for Industrial Control Equipment

CE Compliant

Manufactured at ISO9001 certified plant.

Warranty

2-year factory warranty

Specifications

EBC 12 Control		
Power supply	V	1x120VAC
Amperage	A	6.3
Operating temperature	°F/°C	-4 to 104/-20 to 50
Range of operation	inWC/Pa	0-0.6/0-150
Tolerance	inWC/Pa	0.01/3+/-10%
Control signal	mA	max. 10
Control relay		Max. 120 VAC/8A
Output	VAC	10-120
	VDC	0-10
Dimensions	A in/mm	6.9/175
	B in/mm	8.1/205
	C in/mm	4.0/102
Weight	lbs/kg	3.0/1.5
	EMC standard	Emission Immunity
XTP-sensor		
Power supply	VDC	0-24
Amperage	mA	<20
Output	VDC	0-10
Operating temperature	°F/°C	-4 to 115/-20 to 60
Tolerance	inWC/Pa	0.01/3+/-10%
Dimensions	D in/mm	1.93/49
	E in/mm	2.92/74
	F in/mm	3.63/92
	G in/mm	3.15/80
Weight	lbs/kg	.9/4
Chimney Probe		
Dimensions	H in/mm	4.25/108
	I in/mm	3.50/89

