EXHAUSTO
Pressure Control EBC 14

Description

The EXHAUSTO EBC 14 Pressure Control is used with single appliances where it monitors and maintains a constant pressure in a mechanical room. This is achieved by modulating the speed of an air supply fan and it can be used with EXHAUSTO Models BESF and BESB.

Typical uses are: 1) Controlling the supply of combustion air to a mechanical room, and 2) Controlling the supply of make up air to a laundry facility with a dryer.
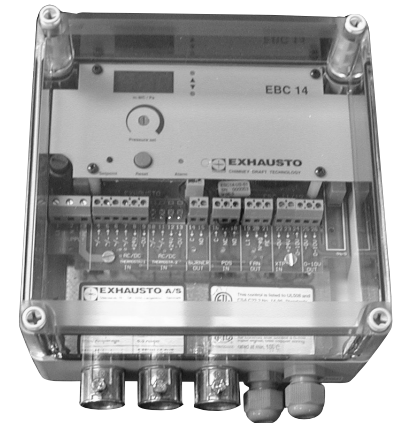
Function

The EBC 14 consists of a control box, an XTP-Sensor and an outdoor pressure probe. The control box and the XTP-Sensor are both installed inside the mechanical room, where the XTP-Sensor provides a pressure differential signal to the control box. The required room pressure can be set at the control box. The outdoor pressure probe is installed on a roof or outside wall. The EBC 14 can control a fan directly or indirectly via a Variable Frequency Drive (VFD).

When the negative pressure in the mechanical room increases beyond the set point as the appliance consumes combustion air, the EBC 14 will cause the ventilator to increase speed and supply more air in order to meet the pressure set point. If too much air is being introduced, the control slows the ventilator down.

The EBC 14 is interlocked with the heating appliance so a call for heat will activate the ventilator and release the appliance once an adequate pressure has been established. The pressure is set on the control panel, where it is possible to view the setting as well as the actual room pressure on the LCD display. LED-diodes verify ventilator operation and monitor all terminals for proper operation.

A LED-diode indicates any alarms.

A safety function shuts down the appliance in case of excess negative room pressure. The EBC 14 has an automatic reset.
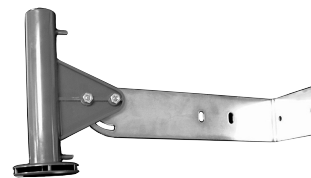

Control Unit

XTP-Sensor

Outdoor Pressure Probe

Plastic Tubing

Material

The housing is made of plastic with a clear cover. It is IP 54/NEMA 12 rated.

Standard Equipment

Control box and XTP-Sensor with 6' silicone tubing. Outdoor pressure probe with 50' of plastic tubing.

Listings

ETL listing # 1090205550D

> UL508 - Standard for Industrial Control Equipment (ETL Report J98*12993-001)
>
> CSA C22.2 No. 14-95 - Standard for Industrial Control Equipment. (ETL Report J98*12993-001)

Component in an ETL Listed MCAS System (ETL Report J99*18091-003)

CE Compliant

Manufactured at ISO9001 certified plant.

Warranty

2 Year factory warranty

Specifications

EBC 14 Control		
Power Supply	V	1x120V AC
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
Output	V AC	10-120
	V DC	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	EN50 081-1
	Immunity	EN50 082-2
XTP-Sensor		
Power Supply	V DC	0-24
Amperage	mA	<20
Output	V DC	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
Outdoor Pressure Probe		
Dimensions	H in/mm	6.5/166
	I in/mm	2.6/65
	J in/mm	12.2/310

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