

ENERVEX®

EBC 30 MODULATING PRESSURE CONTROL

3912022 08.16

Product Information

Use

The EBC 30 is a draft or pressure control device that can monitor and maintain a constant draft or pressure by varying the speed of a fan(s) or the position of an actuator. It can be used with models RSV, IPVB, TDF, BEF and MDF.

Typical applications are:

- Maintain a constant draft by modulating a power venter in a mechanical draft system serving boilers and water heaters
- Maintain a constant draft by modulating position of an over-draft damper serving boilers and water heaters
- Maintain a constant duct pressure in a dryer venting system or a ventilation system
- Control the supply of combustion air to a mechanical room or directly to a boiler(s)
- Control and maintain room pressure

Description

The EBC 30 features "Plug-n-Play" to automatically detect connections, setting requirements and accessories during initial start-up. A rotation check feature makes it easy to determine the rotation of a 3-phase fan motor.

The control can provide a 0-10V signal to a Variable Frequency Drive (VFD) or actuator. An add-on board can supply 0-120VAC power directly to the mechanical draft fan or air supply ventilator. It can interlock with up to 6 heating appliances, and an unlimited number of additional heating appliances can be handled by using one or more ES12, Relay Box. An integrated Proven Draft Switch function assures that if sufficient draft cannot be maintained, the control will lock out the appliance(s) within an adjustable time period. Automatic reset avoids nuisance lockouts and the need for manual reset.

The EBC 30 can be set up for intermittent operation so it pre-purges the stack prior to the boiler(s) start and post-purges up to 30 minutes after boiler stop. Alternatively, it can be set up for continuous operation where the fan runs continuously but modulates and runs at idle speed, if no appliances are operating.

The programmable processor allows manual overrides, manual operation; low and high limit fan speeds. An Operating Priority set up option allows one or more appliance to operate during electrical or mechanical failure of the fan(s) provided the draft requirement can be met and safe operation assured. It automatically checks for fan operation every two hours and goes back to normal operation, if appropriate.



UL File 302882A

ENERVEX Inc.
1685 Bluegrass Lakes Parkway
Alpharetta, GA 30004
USA

P: 770.587.3238
F: 770.587.4731
T: 800.255.2923
info@enervex.com
www.enervex.com



A bearing cycle activation rotates the fan motor(s) once every 24 hours if the fan(s) has not operated within the last 24 hours.

Required draft and pressures can be maintained and shown via a LCD-panel. A self-diagnostics panel with LED-diodes verifies proper operation. The control maintains an error log including the last 10 fault codes.

Material

The housing is made in steel and is NEMA 1 rated.

Standard Equipment

- Control box
- XTP Sensor
- 6' Silicone tubing
- Stack probe

Listings

The EBC 30 is UL Listed in the U.S. and certified for Canada under Underwriters Laboratories Inc. file no. 302882A:

- UL 378 Standard for Draft Equipment
- CSA C22.2 No. 14-95 Standard for Industrial Control Equipment

Approvals

- CE Compliant
- Manufactured at ISO9001 certified plant
- OSHPD Preapproval Of Manufacturer's Certification (OPM) No. OSP-0343-10

Warranty

2-Year Factory Warranty. Complete warranty conditions are available from ENERVEX Inc.

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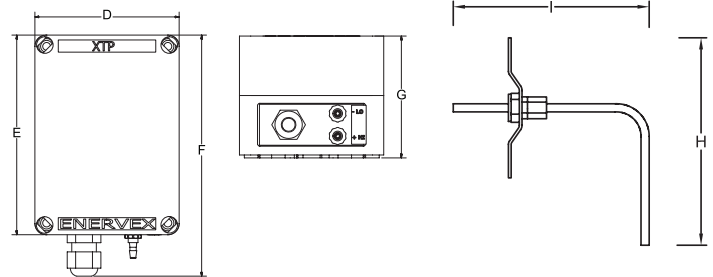
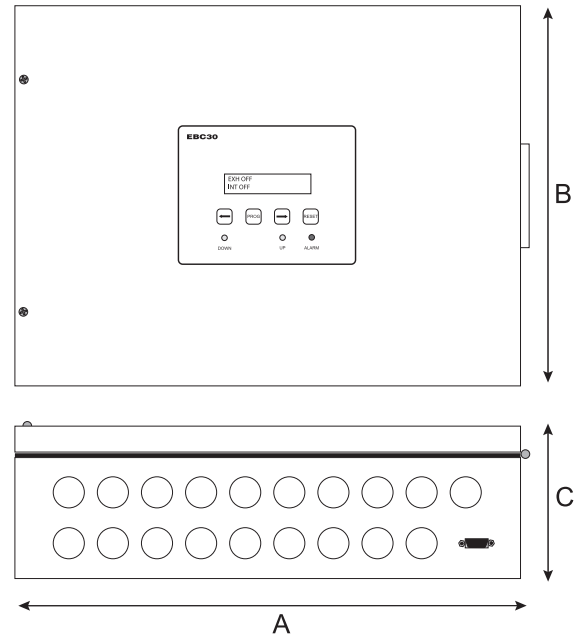
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Specifications

EBC 30 Control		
Power Supply	V	1x120VAC
Amperage	A	6.3
Operating Temperature	°F/°C	-4 to 122/-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	14.65/372
	B in/mm	11.03/280
	C in/mm	4.22/107
Weight	lbs/kg	8.9/4.0
EMC Standard	Emission	EN 50 081-1
	Immunity	EN 50 082-2
XTP Sensor		
Power Supply	VDC	12-36
Amperage	mA	<20
Output	VDC	0-10
Operating Temperature	°F/°C	0 to 160 / -18 to 71
Range of Operation	inWC/Pa	0-0.6/0-150
Accuracy	inWC/Pa	+/-0.08%
Dimensions	D in/mm	3.70 / 94
	E in/mm	5.12 / 130
	F in/mm	6.18 / 157
Weight	lbs/kg	.6 / .3
Stack Probe		
Dimensions	H in/mm	4.25/108
	I in/mm	3.50/89



Specifications are subject to change without notice.

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