

ENERVEX® HRC80 CONTROLLER

3912010 02.17

Product Information

Use

The HRC80 is a totally integrated heat recovery control system designed to increase system efficiency.

Description

The HRC80 is designed to work with ENERVEX VHX Heat Recovery system. It monitors inlet and outlet water and flue temperatures and limits the maximum water outlet temp to a desired level while maximizing heat recovery and efficiency. This controller can be used in conjunction with most ENERVEX draft controls.

The integrated bypass damper control features full modulating capabilities providing tighter control and added safety. Inlet and outlet flue temperatures are constantly monitored and the bypass damper will dynamically respond to water outlet temperature.

The HRC80 features a series of set points allowing maximum flexibility. The bypass set point maintains a maximum allowable water temperature. The bypass modulates open or closed as the water temperature fluctuates around the set point. The HRC80 is capable of controlling a modulating water valve to maintain desired water temperature as well as flow. A dry contact input communicates when a need for boiler feed water or to maintain a hot water tank or deaerator.

The Controller features a panel mounted, 132x64 pixel LCD graphic display used to interface, monitor and control all aspects of the application.

Material

The housing is 16" x 16" x 8", made of steel and is NEMA 1 rated with a removable white painted mounting panel. ANSI 61 Gray polyester powder coating.

Standard Equipment

- Control box
- Temperature sensors (4)

Optional Equipment

- Flowmeter
- Modulating water valve



Listings

The HRC80 Controller is UL Listed in the U.S. and certified for Canada under Underwriters Laboratories Inc. file no. E479365:

- UL 508A Standard for Industrial Control Panel
- CSA-22.2 No. 14 Industrial Control Equipment

Warranty

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



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

ENERVEX®
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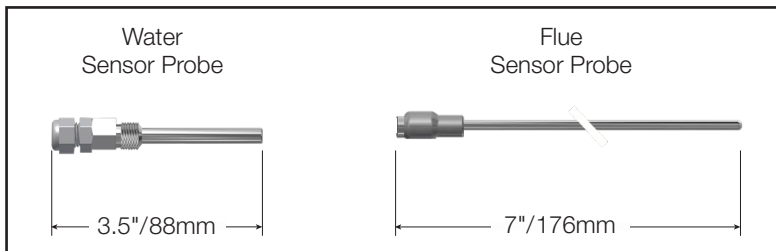
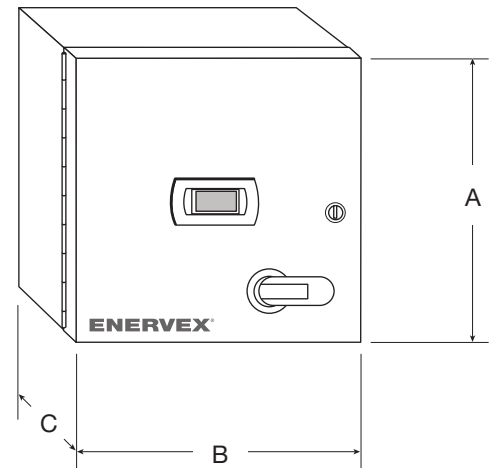
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Specifications

Model	HRC80	
Power Supply	VAC	1x120
Amperage	A	10
Operating Temperature	°C / °F	-10 to 60 / 14 to 140
Water Temp Sensors (2)	NTC	0 to 150°C / -58 to 302°F
Flue Temp Sensors (2)	PT1000	-50 to 350°C / -58 to 662°F
D.I. (2) (Volts Free Contacts)		5 mA Max
Max Sensor Cable Length	m / ft	10/32
Analog Outputs (2)	VDC	(0-10)
Resolution	bit	8
Precision	%	±2% of full scale
D.O. (N.O.) (4)	Resistive (A)	1
	Inductive (A)	1
	Max VAC	250
Dimensions	A in / mm	16 / 400
	B in / mm	16 / 400
	C in / mm	8 / 200
Weight	lbs / Kg	26 / 11.8



Sensor Probes: (2) each included

Specifications are subject to change without notice.

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