

JOB or CUSTOMER:			
ENGINEER:			
CONTRACTOR:			
SUBMITTED BY:	APPROVED BY:	ORDER NO:	
Date:	Date:	Date:	

SUBMITTAL | SPECIFICATIONS

The Enovative[®] **AutoH**[®] Energy Management System (EMS) is a comprehensive monitoring, control, and fault detection system for domestic hot water systems in any building type.

The on-demand recirculation control reduces pump runtime by as much as 90% by activating at the time that a hot water draw, or demand is initiated in the building and turning off when there is a temperature rise or a set point achieved on the hot water return line. Multiple pump options and activation sensor options are available.

The boiler modulation control reduces hot water energy consumption by reducing the supply temperature when hot water demand is determined to be low with an adjustable fixed control schedule.

These control strategies achieve the optimal balance between comfort, water savings and energy efficiency.

In addition to control of the water heating equipment, the **AutoHot**[®] EMS provides monitoring and fault detection. The system includes logging of sensor data to a micro SD card.

Remote monitoring and control is available, providing alerts when system energy and performance exceed thresholds. Remote monitoring also enables the ability to control the system setpoints from a computer or phone.



ENOVATIVE^{*} AutoHot^{*}



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CONTROLLER FEATURES

Recirc Pump Control	Activation with hot water demand (multiple sensor options), turn off with temperature rise adjustable between 5°F and 25°F, and set lockout point between 80°F and 125°F. Max runtime after activation of 10 minutes. Autoprime feature, pulses pump activation based on intervals between 10 minutes and 4 hours. Onboard dipswitches allow changes to other pump control modes. Modes include on-demand, continuous, temp based, or sensor based operation.
Boiler Temp. Modulation (Boiler Setback Schedule) OR Outdoor Reset control for heating system pumps	Create a fixed setpoint schedule adjustable to be compliant with various jurisdictions and codes. Adjustable setback temperature between 60°F and 160°F for each hour of the day. OR Control a heating system pump on an outdoor reset adjustable based on the hour of the day.
Local Data Logging and Diagnostics	Record data to onboard SD card such as up to 3 temperature points (min, max, avg), 4 CT switches for equipment runtime (totalized and per period), and sensor activity. Onboard LED's provide diagnostic information on relay runtime, lockout status, and equipment runtime activity.

COMPLIANCE AND APPROVALS

Pumps compliant with NSF 61 low lead requirements, Controls have UL and IAPMO PS115-2007 compliance, meeting CA Title 24 code requirements for on-demand recirculation pump operation, boiler temperature modulation.

MODEL #	DESCRIPTION	INPUTS		
DCOOOA	AutoHot® EMS recirculation and boiler controller, 3 temp sensors. SD Card. Standalone control unit	Power Input	120VAC, 60HZ	
DC055A	AutoHot® EMS recirculation and boiler controller,	Fuse	Fuse holder for 5x25mm cartridge, includes 10A slow blow fuse.	
DC099A	AutoHot®EMS recirculation and boiler controller,	(3) Temperature Sensors	3 inputs for 10k thermistors, 2 thermistors included	
DC150A	99-series pump, 3 temp sensors, MicroSD Card AutoHot [®] EMS recirculation and boiler controller,	(1) Dry switch activation	Activation by dry contact switch, such as momen- tary push button, flow meter reed switch.	
BCOOOA	AutoHot® Temperature modulation Commercial	(1) Dry switch activation	Activation by dry contact switch, such as momentary push button, flow meter reed switch.	
	stand alone control unit	(1) micro SD slot	SD card included on all commercial models.	
PHYSICAL CHARACTERISTICS		(1) Activation	Compatible with activators such as wireless	
Dimensions	5.1" H x 5.1" W x 3.0" D (add 1" for strain relief connectors)	DC power supply	receivers, now switches.	
Fnclosure	(130mm x 130mm x 75mm) Polycarhonate IP66 / 67 NEMA 1 4 4X 6	(2 to 4) Dry contact,	2 mainboard CT switch inputs to track equipment runtime such as gas valves, pumps.	
everem		CT switch inputs	2 additional CT ports with remote monitored models, Models with "R" at the end.	
ACCESSORIES	DESCRIPTION			
CTS	Copper Temperature Sensor	0019013		
CT-100	Current Trandsducer (CT) logger	Relay 1 - Output 1	16A Normally Upen relay for recirc pump control, external relay option available for control of large pumps.	
ΕΗΚ-ΟΟΊ	External Helay Kit, for use with AutoHot controller and pumps greater than 1/3 HP, or pumps without capacitors	Relay 2 - Output 2	16A Normally Closed for boiler setpoint control or outdoor reset of a heating pump.	



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SYSTEM ACCESSORIES



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