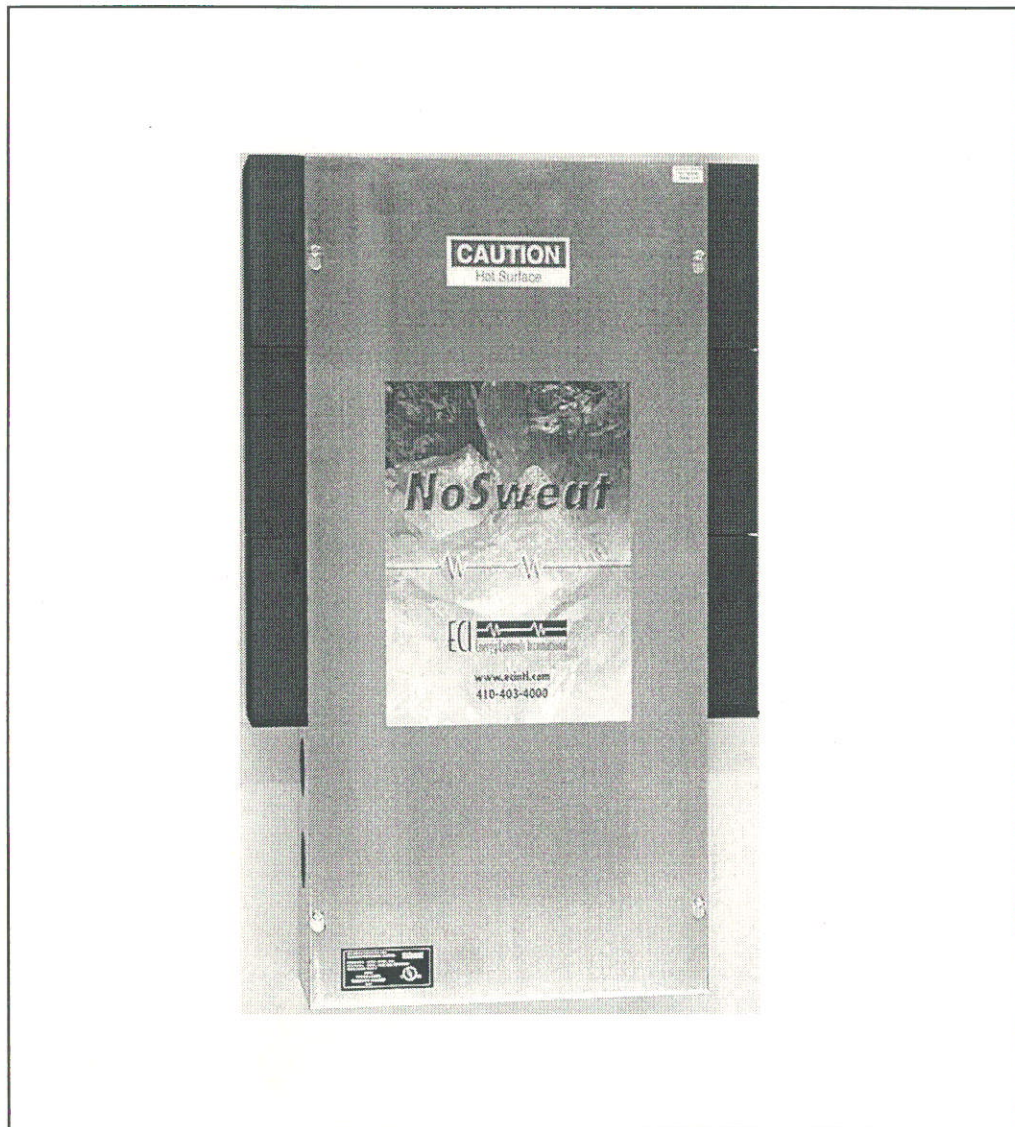




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# NoSweat Controller Installation and Operations Manual



**Form No.** 446440410

**Release:** Rev. E

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**NOTE**

Energy Controls International (ECI), formerly an ECI Group company, has been acquired by Danfoss Inc., a global leader in refrigeration controls, motion controls, and heating & water controls.

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## **Table of Contents**

<b>Table of Contents .....</b>	<b>i</b>
<b>INTRODUCTION .....</b>	<b>1</b>
Specifications .....	2
Dimensions .....	2
Weight .....	2
Operating Environment .....	2
<b>HARDWARE OVERVIEW .....</b>	<b>3</b>
Installation .....	3
Cabinet Mount Option .....	3
Multiple Cabinet Connections .....	3
Remote Mount Option .....	3
<b>ERC-1000 ANTI-SWEAT HEATER CONTROL .....</b>	<b>4</b>
Analog Anti-Sweat Heater Control .....	4
ERC-1000 Control .....	4
Anti-Sweat Heaters Status Screen .....	4
Anti-Sweat Heaters Setpoint Screen .....	4
Anti-Sweat Heaters Names Screen .....	5
Anti-Sweat Heaters Sensor Names Screen .....	5
Anti-Sweat Heaters Configuration Screen .....	5
<b>NoSweat Hookup Diagram .....</b>	<b>6</b>



## INTRODUCTION

The NoSweat controller is a dedicated anti-sweat control panel for supermarkets and cold storage warehouses. Together with an environmental controller, it prevents condensation from forming on refrigeration unit fronts, such as glass doors or metal fixtures. Store dew point dictates the activity of the NoSweat, and, consequently, the output of the ASH heaters that it controls. Functional advantages of the NoSweat include the absence of fans, mechanical devices, and filters. The NoSweat is zero cross-over fired to eliminate RFI (noise) generation. It may be remote or cabinet mounted.

A driver board, receiver boards, and triacs function as the control mechanisms of the NoSweat device. Input signal flows from an environmental controller to them to control the activity of the ASH heaters. The driver board accepts dew point input from an environmental controller, in the form of a 0-10V analog signal, and passes it on to the receiver boards. The input flows from the receiver boards to the triacs, controlling the switching of ASH heating elements in cases.

The standard NoSweat controller possesses four heat sinks (for thermal dissipation), eight triacs, eight receiver boards, and four terminal blocks. The cabinet accommodates up to four additional two-group heat sinks, providing sixteen control points per cabinet. This expanded configuration is shown in Figure 1, below.

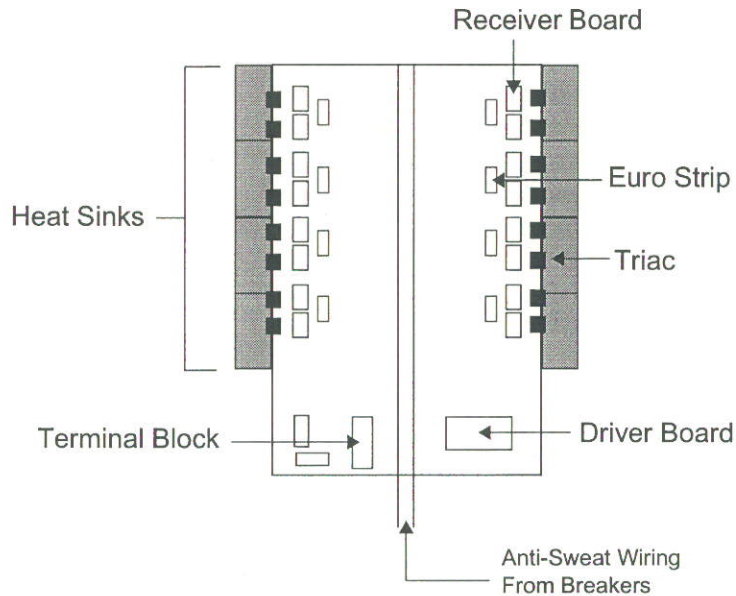


Figure 1: NoSweat Controller with Components