HTWAT SERIES
Silicone Rubber Heating Tapes with Adjustable Thermostat Control
INTRODUCTION

HTWAT Silicone Rubber Heating Tapes with Adjustable Thermostat Control are designed for process temperature control, freeze protection, and supplemental heat. Wrap the flexible heating tape around the desired object you want to heat, set the temperature, and it will maintain heat at the set temperature.

SAFETY ALERT SYMBOL

The symbol above is used to call your attention to instructions concerning your personal safety. It points out important safety precautions. It means “ATTENTION! Become Alert! Your Personal Safety is involved!” Read the message that follows and be alert to the possibility of personal injury or death.

DANGER

Immediate hazards which WILL result in severe personal injury or death

WARNING

Hazards or unsafe practices which COULD result in severe personal injury or death

CAUTION

Hazards or unsafe practices which COULD result in minor personal injury or property damage.

SAVE THESE INSTRUCTIONS!

Additional copies of this manual are available upon request.

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Read and understand this entire manual before operating this electric heating tape.

**OPERATING INSTRUCTIONS**

**STEP 1**
Remove heater from box. Visually inspect heater. Do not use if torn or damaged.

**STEP 2**
Installing your heating tape:
The flexible heating tape can be installed on both a flat and/or curved surface. For a flat surface, lay the heating tape onto the surface to be heated. For a curved surface, wrap the heating tape onto the surface to be heated. Attach the heating tape to the surface by using aluminum tape, fiberglass tape, or a mechanical clamping device which will not cause damage to the heating tape.

- The length of one entire side of the heating tape must be in full contact with the surface. Ensure the heating tape is not kinked, twisted, or any portion of the tape hanging free from the surface (A).
- Thermostat sensor must be in full contact with object to be heated. Sensor is located underneath temperature controller box (B).
- Do not overlap heating tape on itself (C).

**STEP 3**
For 120VAC: Plug power cord into appropriate outlet.
For 240VAC: Terminate power cord to appropriate electrical power supply. The power cable consists of two color-coded conductors, black and white. The black wire should be connected to Line 1. The white wire should be connected to Line 2. The power connections must be adequately rated to electrically support the voltage and amperage of the heater. The identification label located on the power cord displays voltage and amperage requirements.

**STEP 4**
Adjust dial to desired setting between 50-425 F (10-218 C).

**WARNING** Temperature controller dial and enclosure will become very hot after use. Always unplug heater and allow to cool prior to handling.

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**SPECIFICATIONS**

**Operating conditions:**
Maximum Exposure Temperature: 450°F (232°C)

- Adjustable Thermostat Control 50-425 F (10-218 C)
- Power Density: 6.0 watts/in² (0.009 watts/mm²)
- Moisture and Chemical Resistant
- Suitable for Electrically Conductive Surfaces
- 120 or 240VAC Models

### Adjustable Thermostat Control

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<th>Part Number</th>
<th>120VAC</th>
<th>240VAC</th>
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# Troubleshooting Guide

Please read this guide prior to contacting OMEGA. This guide is designed to answer the most commonly asked questions. If you are unable to identify the problem or need additional assistance, please contact us at 1-800-USA-HEAT.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution(s)</th>
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<tbody>
<tr>
<td>Does not heat</td>
<td>Verify heater is connected to proper voltage.</td>
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<tr>
<td></td>
<td>Check to see if there is a resistance reading (not an open circuit) in heater using an ohm meter.</td>
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<tr>
<td>Circuit breaker is tripping</td>
<td>Validate that the circuit breaker is capable of handling the amp requirement of heater.</td>
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<tr>
<td></td>
<td>Examine heater and cord for any damage.</td>
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</tbody>
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## Contacting Omega

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For immediate technical or application assistance:

**U.S.A. and Canada:**
Sales Service: 1-800-826-6342 / 1-800-TC-OMEGA®
Customer Service: 1-800-622-2378 / 1-800-622-BEST®
Engineering Service: 1-800-872-9436 / 1-800-USA-WHEN®

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It is the policy of OMEGA Engineering, Inc. to comply with all worldwide safety and EMC/EMI regulations that apply. OMEGA is constantly pursuing certification of its products to the European New Approach Directives. OMEGA will add the CE mark to every appropriate device upon certification.
OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of 13 months from date of purchase. OMEGA's WARRANTY adds an additional one (1) month to the normal one (1) year product warranty to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon telephone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

OMEGA is pleased to offer suggestions on the use of its various products. However, OMEGA neither assumes responsibility for any omissions or errors nor assumes liability for any damages that result from the use of its products in accordance with information provided by OMEGA, either verbal or written. OMEGA warrants only that the parts manufactured by the company will be as specified and free of defects. OMEGA MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. LIMITATION OF LIABILITY: The remedies of purchaser set forth herein are exclusive, and the total liability of OMEGA with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the component upon which liability is based. In no event shall OMEGA be liable for consequential, incidental or special damages.

CONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a “Basic Component” under 10 CFR 21 (NRC), used in or with any nuclear installation or activity; or (2) in medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical application, used on humans, or misused in any way, OMEGA assumes no responsibility for any liability as set forth in our basic WARRANTY/DISCLAIMER language, and, additionally, purchaser will indemnify OMEGA and hold OMEGA harmless from any liability or damage whatsoever arising out of the use of the Product(s) in such a manner.

RETURN REQUESTS/INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR WARRANTY RETURNS, please have the following information available BEFORE contacting OMEGA:
1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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