DHW SERIES
Drum Heaters and
TOTE-BH SERIES
Heated Insulating Blanket
OMEGA Engineering, Inc.

OMEGAnet® Online Service
omega.com

For immediate technical or application assistance:

U.S.A. and Canada: Sales Service: 1-800-826-6342/1-800-TC-OMEGA®
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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.

The information contained in this document is believed to be correct, but OMEGA accepts no liability for any errors it contains, and reserves the right to alter specifications without notice.

WARNING: These products are not designed for use in, and should not be used for, human applications.
GENERAL

Drum Heaters are electrical resistance heaters in a flexible form that can be easily wrapped around metal drums and tanks. They are constructed of silicone rubber reinforced fiberglass cloth laminated around Nickel Alloy circuit to provide flexible, moisture-and-chemical resistant heat. They are designed for freeze protection, melting of solids, viscosity control and maintaining drum contents at an elevated temperature.

APPLICATIONS GUIDELINES

WARNING

FIRE/EXPLOSION HAZARD. Do not seal drums when applying heat. Drums are containers only and not designed to be used as pressure vessels. Failure to heed this warning can cause severe personal injury, death or substantial property damage. Bungs should be removed and clamps and gaskets left off removing type drum tops.

FIRE HAZARD. Non-metal drums are easily damaged by heat. DH = Drum heaters are intended for use on metal Drums only. Use XH models for plastic drum heating only.

FIRE HAZARD. Do not expose drum heaters to chemicals, acids, alkalis, oils, fluids or other substances that could ignite or cause damage to the heater.

MODEL IDENTIFICATION

The part number stamped on the drum heater identifies several characteristics. Using the model identification table. Identify the drum heater(s) you have purchased to ensure proper application.

EXAMPLE MODEL NUMBER

DRUM-DHW ________ 55 ________ 115 ________ TS

THERMOSTAT

VOLTAGE

115 OR 230

DRUM SIZE

GALLONS

115 Volts

230 Volts

Container in Gallons | To Fit Diameter | Wattage | Drum Type | With Thermostat | With Out | With Thermostat | With out
<table>
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</tr>
</thead>
<tbody>
<tr>
<td>55</td>
<td>22 1/2&quot; ± 1&quot;</td>
<td>1500</td>
<td>Metal</td>
<td>DHW-55-115-TS</td>
<td></td>
<td>DHW-55-230-TS</td>
<td></td>
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Voltage and Wattage are specified on the label. Refer to model identification if you are unclear about the voltage and wattage specifications of your heater.

Heater contains no user serviceable parts.
INSTALLATION

1. Wrap and clamp heater around drum prior to switching on.
2. Pull on spring, at the same time, hold hook end of the heater against the drum.
3. Place a loop of the spring over the hook as shown.
4. Heater must not be clamped in dented areas of the drums.
5. Heater must be in full contact with the drum and below the level of liquid while in operation.
6. Do not bend heater sharply, as this may cause internal damage to the heater element.
7. Open drum to allow for expansion when heating.
8. Set thermostat to lowest setting.
10. Adjust thermostat to appropriate setting.

INSULATING BLANKETS

Insulating blankets increase heating efficiency and reduces operating cost. Bulk fiberglass insulation is covered with silicone glass cloth on both sides. Velco fastening devices make installation easy. All insulating blankets are available from stock.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>MODEL #</th>
<th>WATTAGE</th>
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<tbody>
<tr>
<td>55-GAL Insulating Blanket</td>
<td>COVER-IB-55</td>
<td>NONE</td>
</tr>
<tr>
<td>55-GAL Heated Insulating Blanket</td>
<td>TOTE-BH-55-115-T</td>
<td>1000</td>
</tr>
<tr>
<td>55-GAL Heated Insulating Blanket</td>
<td>TOTE-BH-55-230-T</td>
<td>1000</td>
</tr>
</tbody>
</table>

WIRING

ELECTRIC SHOCK HAZARD. All applications of drum heaters must be grounded in accordance with the National Electric Code (NEC) and local electric codes. All the Drum Heaters are manufactured with wire mesh grounded grid and 3-prong cord for electrical protection
1. No special wiring is required to operate the Drum Heater. The electrical receptacle, including GFCI (ground fault Circuit Interrupter), should be wired in accordance with the National Electrical Code (NEC) and local codes by a qualified person.
2. Do not connect the heater to a higher voltage source than it is rated. Check the model number stamped on the heater to confirm the voltage and amp draw.
OPERATION GUIDELINES

DRUM CONTENTS
1. If the liquid level in the drum is low, disconnect the heater.
2. Protect the heater from liquid spill over or the abuse.
3. If the drum is dented or empty, do not use the heater, as it may cause the heater to burn out prematurely.

ENVIRONMENT
Maximum operating temperature is 300°F and maximum exposure temperature is 400°F. Do not operate the Heater under conditions that result in temperatures higher than the recommended maximum since excess Temperatures cause premature heater failure.

THERMOSTAT
The thermostat range is 50°F to 425°F on the metal drum heaters and for the plastic drum heaters the range is 50°F to 160°F with an over temp thermostat that OA 175°F. To set the thermostat to the lowest temperature, rotate the knob to the full counter – Clockwise position. Full clockwise position is the maximum temperature setting.

MAINTENANCE
Keep heater free from chemicals, acids, alkalis, oils, fluids, or other substances that could ignite or cause damage to the heater. Keep heater below the level of the contents inside the drum. Check that heater fits tight against the drum or tank. Heater contains no user serviceable parts. In the event the heater stops working, contact OMEGA Engineering, Inc. for replacement.
WARRANTY/DISCLAIMER

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 grace period 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 phone 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 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.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, 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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