

1 YEAR
WARRANTY

MADE IN
USA



User's Guide

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GCW SERIES **Gas Cylinder Warmers**

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INTRODUCTION

GCW Gas Cylinder Warmers are designed to heat metal gas cylinders for condensation control, pressure increase, and temperature control in either indoor or outdoor locations. For successful operation of these warmers, read and understand these instructions prior to use.

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.



Immediate hazards which WILL result in severe personal injury or death



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



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.



⚠ DANGER

A person who has not read and understood all installation instructions is not qualified to install this product.

⚠ DANGER

- Do not immerse heater in liquid.
- Keep volatile or combustible material away from heater when in use.
- Use heater only in approved locations.
- Keep sharp metal objects away from heater.
- Keep enclosure cover tight while circuits are alive.

Failure to observe these warnings may result in electric shock, risk of fire, and personal injury.

⚠ WARNING

End User Must Comply to the Following:

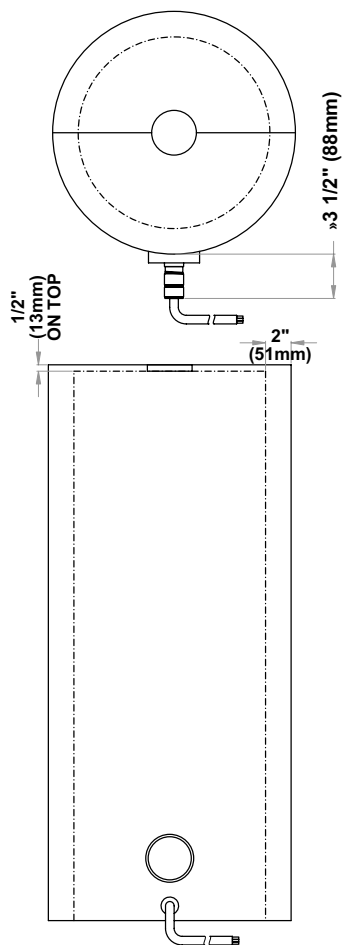
- Only qualified personnel are allowed to connect electrical wiring.
- All electrical wiring must follow local electrical codes and highly recommend following NEC Article 427.
- Final installation / wiring is to be inspected by the authority who has jurisdiction in the area that the heater is installed.
- The end-user is responsible for providing a suitable disconnecting device.
- The end-user is responsible for providing suitable electrical protection device. It is highly recommended that a ground fault circuit breaker is used.
- Explosion hazard: Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous.

Failure to observe these warnings may result in personal injury or damage to the heater.

⚠ CAUTION

- Never handle the heater while it is in operation; allow to cool prior to handling.
- Inspect heater before use.
- If spillage of foreign matter onto heater occurs, clean after heater is allowed to cool.
- Never operate a heater without an appropriate heat sink (device being heated is considered a heat sink).
- Do not operate heater above rated temperature value.
- Fasten heater to device using approved methods only.
- Do not repair damaged or faulty heaters.
- Do not crush or apply severe physical stress on heater or cord assembly.
- Disconnect heater when not in use.
- Use heater for warming gas cylinder bottles only. Use specified sized heater with same sized gas cylinder. Do not use for other applications.

Failure to observe these warnings may result in personal injury or damage to the heater.



- Self-regulating grounded heating element
- Total watts: up to 150
- 150°F (66°C) maximum exposure temperature on heating surface
- Available in 120 and 240 VAC
- Frequency range: 50-60Hz
- Insulation thickness
 - Sides: 2.0" (51mm)
 - Top: 0.5" (13mm)
- Ambient temperature range: 30 F to 95 F (-1 C to 35 C)
- Closure: hook and loop fastener like VELCRO®
- Moisture and oil resistant
- Capable of being used outdoors
- Power lead type: SJOW cord
- Power lead length: 10 feet (3m)
- Optional cylinder base insulation pad and valve cover to further reduce heat loss

⚠ WARNING

Read and understand this entire manual before operating this heater.

**VOLTAGE:
120VAC; 240VAC**

STEP 1

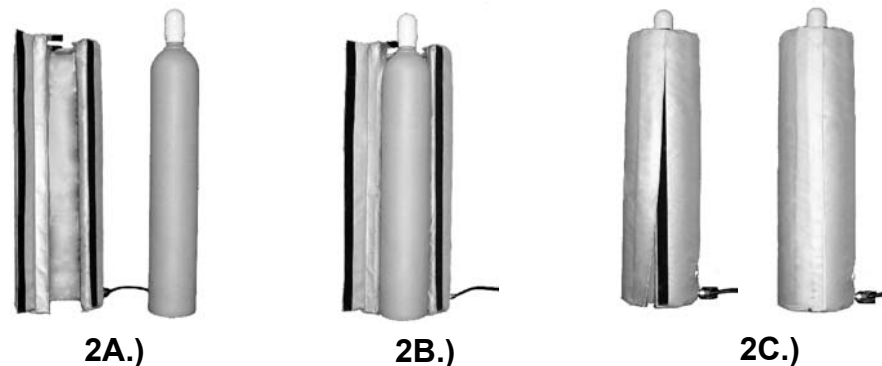
Remove heater from box. Make visual inspection of heater. Do not use if torn or damaged.

STEP 2

Gas cylinder should be placed on a clean, dry surface. **2A.)** Open VELCRO® closure on heater and position around cylinder with the power lead exit on the bottom of the heater. **2B.)** Heater should be positioned on cylinder such that it is covering the cylinder from the floor to the top of the cylinder. **2C.)** Attach VELCRO® closure so heater is tight against the cylinder with no sagging or bundling. Cover any valves on top of cylinder with optional insulating blanket. (sold separately)

STEP 3 (see page 3 for electrical compliance)

Terminate power cord to appropriate electrical power supply. The power cord consists of three color-coded conductors, black, white, and non-insulated. The black wire should be connected to incoming hot line. The white wire should be connected to the neutral (for 120V) or power return (for 240V). The non-insulated wire should be connected to earth ground. The power connections must be adequately rated to electrically support the voltage and amperage of the heater. Follow all local electrical codes for proper electrical connections.



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.

PROBLEM	SOLUTION(S)
Does not heat	<p>Verify heater is connected to proper voltage. The identification label located on the power cord indicates the heater's voltage requirement.</p> <p>Check to see if there is a resistance reading (not an open circuit) in heater using an ohm meter.</p>
Circuit breaker is tripping	<p>Validate that the circuit breaker is capable of handling the amp requirement of heater. The identification label located on the power cord indicates the heater's amperage requirement.</p> <p>Examine heater and cord for any damage.</p>
Does not fit	<p>Confirm that the heater provided was designed to fit around your specified gas cylinder.</p> <p>If the heater was not designed for the specified gas cylinder, please call 1-800-USA-HEAT.</p>
Something has lightly spilled on exterior or interior	<p>Apply any general household cleaner, that does not contain any silicone rubber dissolving type ingredients, with a clean cloth fabric.</p>



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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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