

OHMTEMP INTERNATIONAL, INC.

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The logo for Ohmtemp, featuring a red circular icon with concentric circles on the left, followed by the word "Ohmtemp" in a red, lowercase, sans-serif font.



BASE HEATERS

PLEASE REMEMBER WHEN HEATING METAL DRUMS OR PAILS!

Always know the material you are heating!

Do not use drum heaters unattended!

Do not heat a closed container; it must be properly vented!

Do not heat a defective container!

Remember, the thermostat measures the air temperature around the drum or pail, not the material temperature inside the drum or pail!

Do not use if thermostat stem is broken off!

Do not use these heaters where flammable vapors are present!

Only OHMTEMP - recommended drum dollies should be used with the Fifty-Five Gallon and Maxi Heaters!

Heat loss will be greatly reduced if the flexible gasket is set properly!

**FOR QUESTIONS REGARDING THE
OPERATION OF THESE HEATERS CALL**

...
**1-734-261-7232
OR E-MAIL
OHMTEMP@AOL.COM**

WARRANTY: All OHMTEMP heaters are guaranteed against defective materials and workmanship for a period of one year from date of purchase. This guarantee does not cover failure due to water soakage, spillage, abuse or mis-applications. Heaters which fail with the warranty period should be returned *Freight Prepaid* to OHMTEMP for inspection and credit or repair after first contacting OHMTEMP for return authorization.

WARNING !!!

***DO NOT HEAT A CLOSED CONTAINER
OR USE THESE HEATERS WHERE
FLAMMABLE VAPORS ARE PRESENT.
THESE HEATERS MUST BE
PROPERLY GROUNDED FOR SAFETY
USING THE GROUNDED PLUG
SUPPLIED. UNDER NO
CIRCUMSTANCES SHOULD THE
GROUNDED PLUG BE REPLACED
WITH A NON-GROUNDED PLUG.
THESE HEATERS ARE NOT
RECOMMENDED FOR USE IN
HAZARDOUS AREAS OR ANY TYPICAL
CLASS 1, GROUP D AREAS.***

INFINITE (SURFACE) SWITCHES

THIS IS HOW THE "INF" INFINITE CONTROL OPERATES

The Model INF control turns clockwise or counterclockwise. It is equipped with 3 indexing positions: "High-Off-Low". In the "High" position, the control is energized continuously. At other settings it delivers the selected level of input under the control of a bimetal timer. A double-line disconnect is provided when the control is in the "Off" position.

The permanent magnet provides snap action of contacts. Clean makes and breaks ensure long life of the fine silver contacts.

The Model INF control is ambient compensated. It is designed for operation where ambient temperature does not exceed 180°F. The control contains a bimetal which regulates the running cycles. This bimetal has a resistance wire wrapped around it which is connected in parallel with the heating unit being controlled and cycles in unison with the heating element. When the dial is turned to "On" position, the follower moves out and allows the contacts to close. This completes a circuit through a heating unit being controlled, and also to the resistance wire wrapped around the bimetal. At this time the steel armature is under the influence of the magnetic pull of a magnet. As the resistance wire heats the bimetal, the bimetal flexes and forces are built up in it. When the force built up is equal to the magnetic pull of the magnet, the contacts open with a snap action and the steel armature will be pulled away from the magnetic field. This opens the contacts which will cut off the power of the heating unit being controlled and will also disconnect the power to the bimetal resistance wire. As the

bimetal cools, it will then flex in the opposite direction and the contacts will start moving closer together. At a certain point the magnetic pull will close with a snap action. This then will permit current to flow throughout the unit once again as the circuit is complete.

A second bimetal is employed as an ambient temperature compensator to neutralize the effect of the surrounding temperatures on the control bimetal. These controls are designed to operate in locations where the maximum ambient temperature does not exceed approximately 180°F. The infinite can control any resistive load up to 45 amps. It is possible to obtain a range of inputs to the element and/or load from approximately 5% or 22-1/2% at low depending on model, 100% at high, and infinite settings in between.

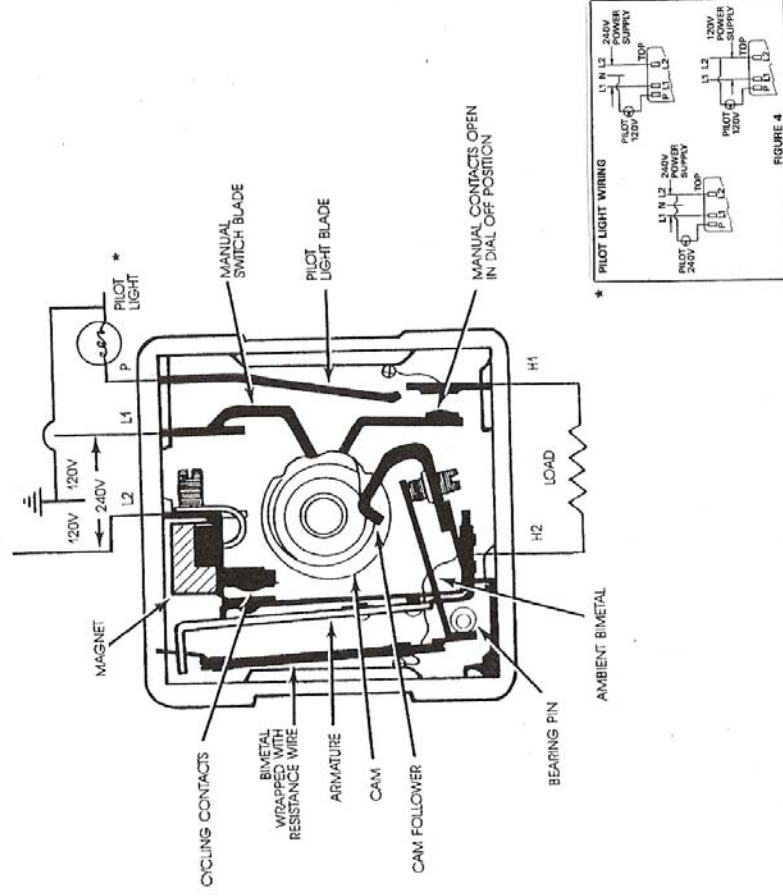
Looking at the terminal connections at the rear of the control, L1 and H2 represent line connections at the incoming source. H1 and H1 equal load connections that are connected to the load. "p" is for a pilot light attachment.

UL LISTING -

COMMERCIAL AND DOMESTIC MODELS

This control is recognized under the component program of Underwriters Laboratories, Inc. as:

Temperature - Indicating and Regulating Equipment



OPERATING INSTRUCTIONS OHMTEMP BASE HEATERS

Place your metal fifty-five gallon drum on the top of the base heater and then open the control panel to access the infinite control switch. There is a red line engraved in the chrome bezel to determine the setting. Make sure the infinite control is in the "OFF" position. This control turns clockwise or counterclock wise. It is equipped with 3 indexing positions: "HIGH-OFF-LOW". In the "HIGH" position, the control is energized continuously.

At other settings it delivers the selected level of input under the control of a bimetal timer. A double-line disconnect is provided when the control is in the "OFF" position!

WARNING TO AVOID ELECTRICAL SHOCK!

The base heater can only be "PLUGGED IN" and "UNPLUGGED" when the infinite control is in the "OFF" position!

ALWAYS TURN THE INFINITE CONTROL TO THE "OFF" POSITION WHEN MOVING A DRUM ON OR OFF THE BASE HEATER OR TO "PLUG IN" OR "UNPLUG" THE HEATER. ALWAYS DISCONNECT THE ELECTRIC POWER BEFORE SERVICING ANY PART OF THE HEATER!

**Model # BH2401
Control # 5500-235
Heating Element # SES2401150
Cord Set # 14/3-2321**

These units are not recommended for use in Hazardous Areas or any typical Class 1, Group D areas.



MANUFACTURER AND DISTRIBUTOR OF CONTAINER HEATERS
POST OFFICE BOX 85 • GARDEN CITY, MICHIGAN 48135

MODEL	BH2401		
SERIAL		1.15	K.W.
HEATERS:	240	VOLTS	1 PH. 5 AMPS
CONTROL:	240	VOLTS	60 CYCLE

DISCONNECT ELECTRIC POWER SUPPLY
BEFORE SERVICING ANY PART OF UNIT

WARNING

Do not heat a closed container or use these heaters where flammable vapors are present. These units must be properly grounded for safety using the grounded plug supplied. Under no circumstances should the grounded plug be replaced with a non-grounded plug. This unit is not recommended for use in any Hazardous Areas or any typical Class 1, Group D areas.

We the manufacturer shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use or inability to use any item sold by us, but our only obligation in lieu of all warranties expressed or implied, is to replace any item proved to be defective. Before using, the user must determine the suitability of the product for its intended use, and the user assumes all risk in connection therewith. WE THE MANUFACTURER NEITHER KNOW NOR HAVE REASON TO KNOW THE USE TO WHICH THE USER WILL PUT THE PRODUCT.