

# Base Drum Heater

## Drum Dolly Base Heater • Model DM-55DBH

For non-flammable, non-hazardous, heat sensitive material

Heat a Full 55Gal. Uninsulated Drum of Water to 170°F in 12 hours

**The Model DM-55DBH is a 900 lb. capacity drum dolly and is designed to provide infinitely variable heat control for warming all kinds of non-flammable, non-hazardous heat sensitive materials in 55 gallon metal drums. Please read the Operating Instruction & Warnings on the reverse side before using your heater.**



This drum base heater has fully mobile drum dolly function. An excellent type of heater for maintaining product heat at various levels for a variety of applications in dry conditions: for product thickness reduction when add-mixing; for speedier product transfer via decanting or pumping; for product protection during cold weather cycles, e.g. to prevent product crystallization or solidification and a variety of other processing tasks. This heater makes a great companion with the DRUM-MATES® Full Wrap Drum Heater creating a much shorter product heating cycle.

The natural convection current of liquid heating causes liquid circulation assisting the product blending. (DRUM-MATES® can supply drum mixers for making full product uniformity.) The base heater comes equipped with either a 1,750 watt (at 120 volt) or a 1,920 watt (at 240 volt) heating element encased in a 15 1/4" square, 1/4" thick aluminum platen. The dolly rolls on 3" diameter phenolic swivel casters. The infinite control provides an ON/OFF, heat pulsing action. The heater comes equipped with a six foot power cord and a high amperage three pin plug. For 120 volt operation, use a Hubbel single outlet #5361. For 240 volt operation, use a Hubbel single outlet #5661.

### HEATER SPECIFICATIONS

Outside Dolly Diameter .....	28.5"
Inside Dolly Diameter .....	24.0"
Heat Plate Diameter .....	20.0"
Power Output .....	1,750 watts @ 120 volts or 1,920 watts @ 240 volts
Ampere Draw .....	14.6 amp @, 120 volts or 8.0 amp @ 240 volts
Shipping Weight .....	80 lbs.



DRUM-MATES® equipment assemblies are provided as separate components each sold on a separate basis. Ask for literature on DRUM-MATES® drum & tote mixers, drum tumblers, drum/tote pumps & hand nozzles. DRUM-MATES® Inc., Mixer & Pump Div., Tel: 609-261-1033 and 609-261-1033, Fax: 609-261-1034

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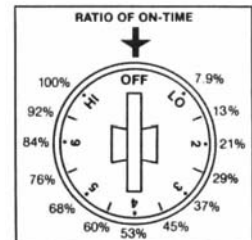
Model DM-55DBH

## Operating Instructions & Warnings



### Initial Set-Up

Place one 55 gallon drum of material to be heated on the dolly using a drum lifter, hoist, sling or similar device. The DM-55DBH operates with “pulsation” or “constant” heat output. It is equipped with two pilot lights. The green pilot light will glow continuously as long as the heater is active. The red pilot light will glow only when the control is in the OH position and heat pulsation is being generated. Activate the heater by turning the Infinite Control to the appropriate setting. For “Constant” heat output, set the Infinite Control to the “HI” setting. Refer to the “Ratio of ON-Time” illustration for the time “ON” Ratio.



### Heating Quality Control

When heating a material for the first time the material temperature should be monitored with a thermometer and recorded for future reference. The control setting preferred for one material and set of environmental conditions is likely to be different with another material. To obtain the same or similar heating results with one material, always use the same materials and repeat the same conditions including the entire set-up procedure, area temperature, environmental conditions and other variables with the **same dial heat setting**.

Read, Understand & Observe all **WARNINGS**, BEFORE USING your Drum Heater.

## WARNINGS:

Read these warnings and instructions before operating the drum heater. These precautions must be observed to avoid possible injury, death or property damage!

**Determine a safe, stable, non-flammable operation area & platform for your heating station.**

### Safety Warnings - Security, Heat & Flammability

FAILURE to observe these **Safety Warnings** can result in “**Hazardous Events**”, (hazardous discharge, fire or explosion causing injury, sickness, disability or death and/or environmental hazards, damage, pollution, or other conditions.) This Metal Drum Heater only for use with Metal Drums. MAKE ABSOLUTELY SURE that the Drum or Pail Heater is securely and tightly clamped on the heater! For best safety, ALWAYS MONITOR the temperature while heating your material! The Drum or Pail Heater surface is HOT during operation and extreme care must be taken when moving drums onto or off the surface to ensure operation safety and to avoid possible injury to the operator.

Always use and wear appropriate safety apparel, equipment, appliances and utilize safety services in any area where heating operations occur and where VAPORS & FLAMMABLE VAPORS may, AT ANY TIME, be present. DO NOT USE the Drum or Pail Heater for or near COMBUSTIBLE SUBSTANCES that can be ignited, resulting in **Hazardous Events**.

### Operation Warnings - Moisture, Electrical, Venting, Transfer, Fluid level, Dust & Product Quality Monitoring

Disconnect the heater from the wall receptacle when it is not in use. The drum or pail heater is for INDOOR USE ONLY. To avoid heater failure, do not allow the heater and/or the controls to become wet or spill wet liquids or other materials upon them. The Drum or Pail Heater MUST BE ELECTRICALLY GROUNDED to avoid the possibility of electrical shock to the operator. Installation and operation should be monitored according to national electrical and safety codes. Never alter or remove the special high ampere, three pin, electrically grounded plug supplied as an integral part of the heater. The USER or their authorized representatives are liable for determining the suitability of the Drum or Pail Heater for the intended heating application. DO NOT LEAVE the Drum or Pail Heater UNATTENDED during the heating cycle. The level of the liquid or material being heated must be above the top edge of the Drum or Pail Heater to ensure the best temperature sensing, heater life, product security and operation safety. ALWAYS vent the container while heating or it may distort, leak, or explode causing **Hazardous Events**.

ALWAYS ENSURE CHEMICAL COMPATIBILITY of all application ingredients. NEVER USE drain or dispensing spouts or transfer valves on heated drums or pails. Fluid level lowered below the highest heater element level can cause heater or product failure or damage at elevated temperatures, causing leaks, spillage, drum damage and other **Hazardous Events**. NEVER USE a Drum or Pail Heater inside or adjacent to areas known for AIRBORNE PARTICULATE EXPOSURE such as grain elevators, grain silos, hay or fine powder, dust or other particulate storage, transfer or processing sites. Know how applied heat at any temperature level will affect your material before using the Drum or Pail Heater. If you are not sure how to heat your material, DO NOT USE the Drum or Pail Heater until experimental proof informs you how heat will affect your material.