MORSE®
The Specialist In Drum Handling Equipment

DRUM HEATERS
710 and 711 SERIES

Heat Drum Contents Easily and Reliably

- **Heat the contents of steel, plastic or fiber drums**
- **Heat 55 or 30-gallon drums**
- **Even heat 5-gallon pails**
- **Melt or preheat process ingredients**
- **Control viscosity**
- **Promote dissolution**
- **Speed liquid flow**
- **Reduce residue in drum**
- **Speed chemical action**
- **Protect against freezing**

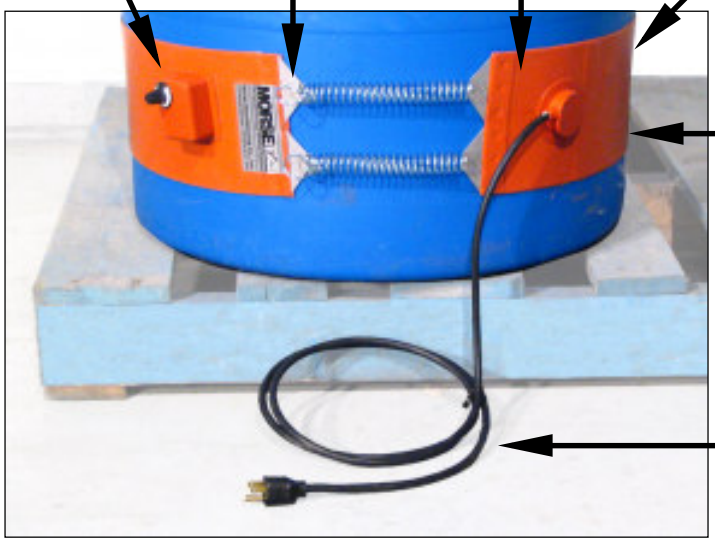
MADE IN U.S.A.

Morse flexible drum heaters provide a simple, effective and reliable way to heat the contents of your drums. A drum heater is available for almost any steel, plastic or fiber drum. . . even heaters for metal and plastic 5-gallon pails.

Heaters for metal drums have an adjustable thermostat for a control range of 50° to 450°F. Heaters for plastic and fiber drums have a 50° to 160°F thermostat.

Morse band drum heaters are made of tough, long lasting, fiberglass reinforced silicone rubber. They are easy to keep clean because few chemicals will stick to silicone rubber.

To attach to your drum, simply wrap the drum heater around and attach the spring and hook arrangement. Because these heaters are pliable, they conform to the wall of the drum. Though quick to fasten, they assure thorough band contact for effective heat transfer through the drum wall to the material inside. They are more flexible than metal band heaters, and therefore able to conform to conform to the drum's surface to transfer heat more effectively.



115V and 230V Drum Heaters

Morse drum heaters provide more heating power over a larger surface area than other drum heaters.

55-Gallon Drum Heaters
- Steel drum - 1500 watt with 4" wide band
- Plastic drum - 750 watt with 6" wide band

30-Gallon Drum Heaters
- Steel drum - 750 watt with 3" wide band

PailPRO™ 5-Gallon Pail Heaters
- Steel pail - 300 watt with 3" wide band
- Plastic pail - 300 watt with 3" wide band

Thermostats
- Metal drum heater: 50° to 450°F
- Plastic or fiber drum heater: 50° to 160°F

Properly positioned below the content level of the drum, the drum heater provides uniform heat. Two or more drum heaters may be used on the same drum for faster warming.

Typical Applications

- Maintain liquid temperatures in water purification systems
- Keep resin at optimum temperature
- Control viscosity of chemical binder in sand casting mold operation
- Protect materials vulnerable to freeze damage

Adhesives	Lubricating oils
Asphalt/tar/creosote	Mastics
Brine	Mineral oil
Chemicals	Molasses
Chocolate	Paints
Corn syrup	Plastics
Fat/grease/lard	Resins
Fuel oils (nonflammable)	Solvents
Glycerine	Syrups
Glycol	Vegetable oils
Honey	Wax
Liquid sugar/dextrose/sucrose	

Note: Excessive heat may be harmful to some materials.

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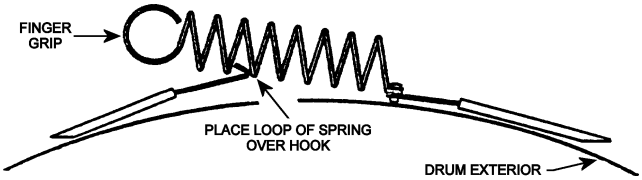


Easy to attach heater to drum

Simply wrap the heater around your drum and attach the spring and hook arrangement. Always clamp the drum heater around drum prior to plugging in.

Estimate the time required to reach a set temperature

Step 1 - Subtract your drum's starting temperature from the desired temperature. This difference is the necessary "TEMPERATURE RISE FROM AMBIENT."

Step 2 - Find where the curve reaches the necessary RISE value and read the corresponding number of HOURS on the scale at bottom of the graph.

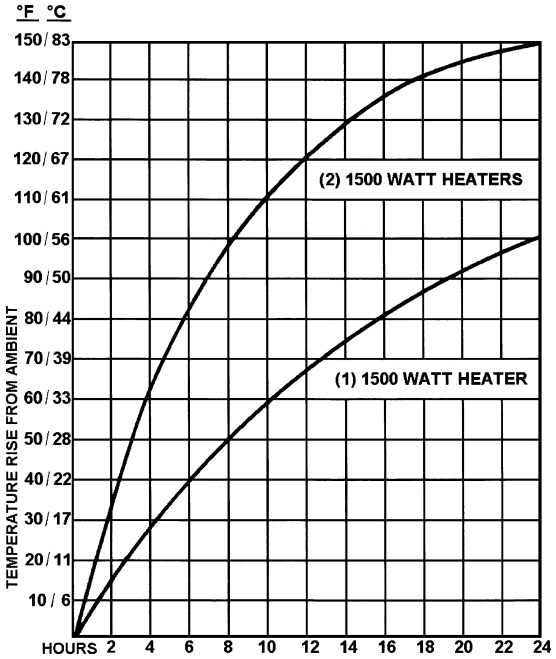
Example - You have 14 hours until the drum needs to be at 150° F (66° C). Its starting temperature is 30° F (-1° C). So you need to a RISE of 120° F (67° C).

The chart shows a RISE of little more than 70° F (39° C) at 14 hours using one drum heater. Use two 1500 watt heaters to increase the temperature by 120° F (67° C) in only 12 hours.

NOTE: Thermostat knob markings are "relative." Should you require a higher degree of accuracy, measure the drum temperature directly and adjust the thermostat accordingly. Assure that the heater's setting will not exceed maximum allowable temperature for the contents of your drum.

CAUTION: Drum contents may be hazardous. Some materials may become more hazardous when heated. Refer to the Material Safety Data Sheets for the material in your drums. It is the user's responsibility to take appropriate safety and protective measures. Morse heaters are NOT for use with flammables, and NOT for "explosion hazard" areas. Excessive heat may be harmful to some materials.

INCREASE IN TEMPERATURE: The graph assumes that ambient air temperature and drum initial temperature are the same. Graph is based on heater performance with a drum of water. Performance with other materials may differ.



Heaters for Steel Drums			
Model #	**Description**	**Thermostat**	**To Fit Diameter**
710-55-115	Heater, 55-Gallon Steel, 115V, 1500W, 4" Wide	50° to 450° F	22.5" +/- 1"
710-55-230	Heater, 55-Gallon Steel, 230V, 1500W, 4" Wide	50° to 450° F	22.5" +/- 1"
710-30-115	Heater, 30-Gallon Steel, 115V, 750W, 3" Wide	50° to 450° F	18.25" +/- 1"
710-30-230	Heater, 30-Gallon Steel, 230V, 750W, 3" Wide	50° to 450° F	18.25" +/- 1"

Heaters for Plastic and Fiber Drums (can also be used on a steel drum)			
711-55-115	Heater, 55-Gallon Non-Metallic, 115V, 750W, 6" Wide	50° to 160°F	22.5" +/- 1"
711-55-230	Heater, 55-Gallon Non-Metallic, 230V, 750W, 6" Wide	50° to 160°F	22.5" +/- 1"

Heaters for 5-Gallon Pails			
710-5-115	Heater, 5-Gallon Steel, 115V, 300W, 3" Wide	50° to 450° F	11.25" +/- 1"
710-5-230	Heater, 5-Gallon Steel, 230V, 300W, 3" Wide	50° to 450° F	11.25" +/- 1"
711-5-115	Heater, 5-Gallon Non-Metallic, 115V, 300W, 3" Wide	50° to 160°F	11.25" +/- 1"
711-5-230	Heater, 5-Gallon Non-Metallic, 230V, 300W, 3" Wide	50° to 160°F	11.25" +/- 1"

Thermostat

Morse drum heaters for metal drums have an adjustable thermostat with a range of 50° to 450° F (10° to 232° C). Heaters for plastic and fiber drums have a 50° to 160° F (10° to 71° C) thermostat. You can set the maximum temperature to automatically be maintained at the temperature you require.

Once attached to a drum and plugged in, the heater will continuously warm the drum temperature as high as the heater's thermostat setting. Then the thermostat will turn the heat off and on to maintain the temperature. The actual time it takes to reach the setting is a function of the necessary temperature rise and other factors such as the nature of the material, its specific heat, ambient air temperature, etc.

Please contact your Morse dealer:

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