MORSE

710 & 711 SERIES

SPECIFICATIONS SHEET

- Models to heat contents of steel, plastic or fiber drum
  - 55, 30 or 15-gallon (210, 114 or 57 liter) drum
  - 5-gallon (19 liter) pail or can
- Melt or preheat process ingredients to control viscosity, speed liquid flow and protect against freezing
- Speed chemical action, promote dissolution
- Heaters are moisture and chemical resistant
- CE marked for sale in Europe

DRUM & PAIL HEATERS

Heat Contents of a Drum or Pail

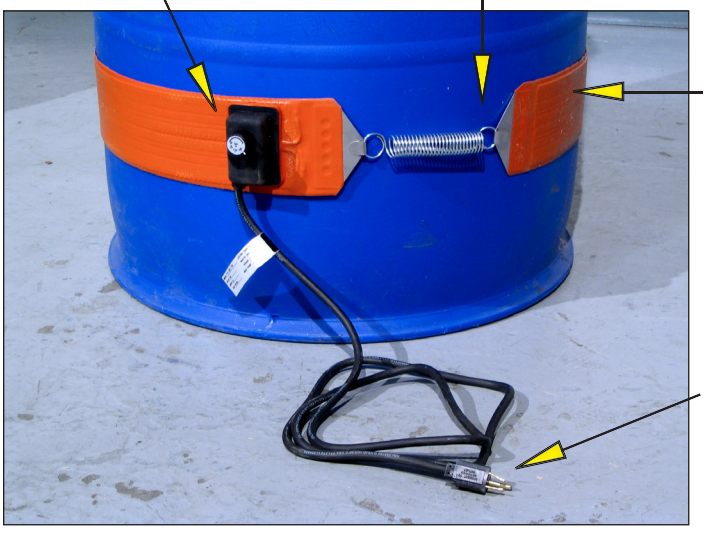
Flexible drum heaters provide a simple, effective and reliable way to heat contents of drum. Select correct drum heater model for almost any steel, plastic or fiber drum... or a 5-gallon (19 liter) pail.

Heaters for metal drum have adjustable 50° to 425°F (10° to 218°C) thermostat.

Heaters for plastic or fiber drum have 50° to 160°F (10° to 71°C) thermostat.

Band is made of tough, long lasting, fiberglass reinforced easy-to-clean silicone rubber. Few chemicals stick to silicone rubber.

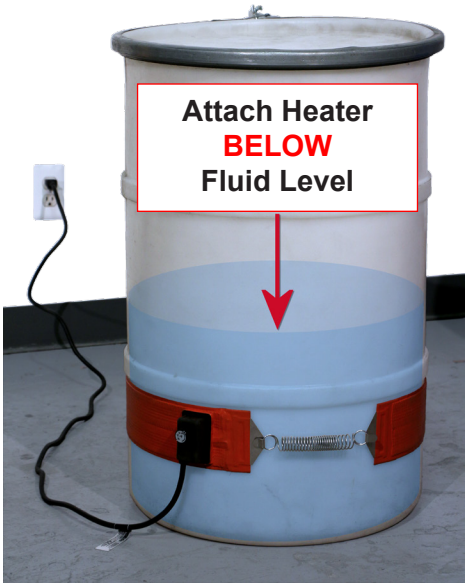
Attach to drum: Simply wrap drum heater around BELOW level of contents within drum, and engage spring and hook to hold it in place. Pliable heater conforms to curved drum wall, assuring thorough band contact for effective heat transfer through drum sidewall to material inside. More flexible than metal band heaters, so able to conform to drum surface and transfer heat more effectively.



Tough fiberglass reinforced silicone rubber band is flexible, chemical resistant and easy to clean. Heater band conforms to drum surface, held in contact by spring tension. Heaters have 4" (10.16 cm) wide band with heating elements.

115V models have 6 foot (183 cm) cord and plug.

230V models have 6 foot cord. Install correct plug for your application.



Drum heater MUST be positioned **BELOW** content level in drum. Drum heater provides uniform heat over the 4" (10.16 cm) wide band around drum. Two heaters may be used on drum for faster warming, but both MUST be attached below drum content level.

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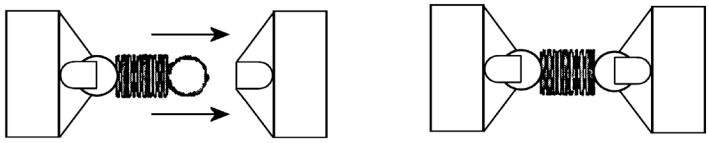
710 & 711 SERIES
Drum Heaters
SPECIFICATIONS SHEET



Easy to attach heater to drum

Simply wrap heater band around drum **BELOW** content level inside drum, and attach spring and hook. Always clamp drum heater around drum prior to plugging in.

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

Note: Excessive heat may be harmful to some materials.

Estimate time required to reach a set temperature

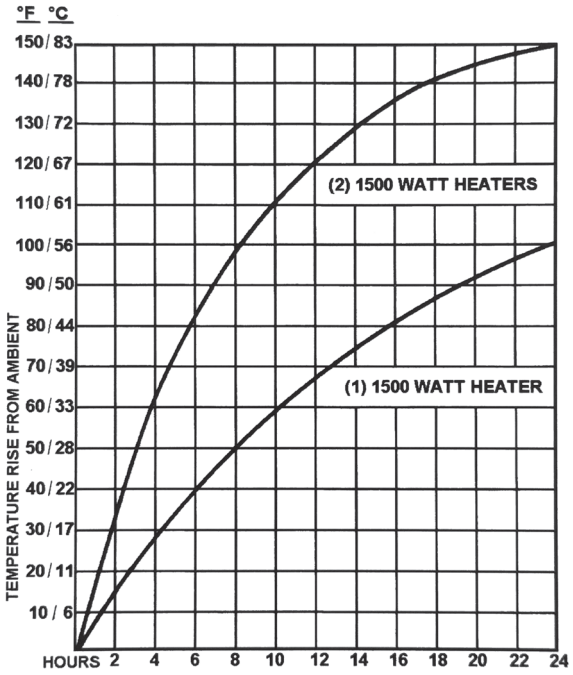
1. Subtract drum starting temperature from desired temperature. This difference is desired "Temperature rise from ambient".
2. Find where curve reaches necessary RISE value and read corresponding number of HOURS on scale at bottom of graph.

   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).

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

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.

Caution: Drum contents may be hazardous. Some materials may become more hazardous when heated. Refer to Safety Data Sheets for material in drum. 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.



Model #	Drum Heaters with 4" (10 cm) Band	Wattage	Fits Diameter	Thermostat
Heaters for Steel Drum				
710-55-115	Heater for 55-gallon (210 liter) steel drum, 115V 50/60Hz	1500	22.5" +/- 1" (57.15 +/- 2.5 cm)	50° to 425° F (10° to 218° C)
710-55-230	Heater for 55-gallon (210 liter) steel drum, 230V 50/60Hz	1500		
710-30-115	Heater for 30-gallon (114 liter) steel drum, 115V 50/60Hz	1000	18.25" +/- 1" (46.4 +/- 2.5 cm)	
710-30-230	Heater for 30-gallon (114 liter) steel drum, 115V 50/60Hz	1000		
710-15-115	Heater for 15-gallon (57 liter) steel drum, 115V 50/60Hz	700	14" +/- 1" (35.6 +/- 2.5 cm)	
710-15-230	Heater for 15-gallon (57 liter) steel drum, 230V 50/60Hz	700		
Heaters for Plastic Drum or Fiber Drum (can also be used on steel drum)				
711-55-115	Heater for 55-gallon (210 liter) plastic or fiber drum, 115V 50/60Hz	300	22.5" +/- 1" (57.15 +/- 2.5 cm)	50° to 160° F (10° to 71° C)
711-55-230	Heater for 55-gallon (210 liter) plastic or fiber drum, 230V 50/60Hz	300		
711-30-115	Heater for 30-gallon (114 liter) plastic or fiber drum, 115V 50/60Hz	250	18.25" +/- 1" (46.4 +/- 2.5 cm)	
711-30-230	Heater for 30-gallon (114 liter) plastic or fiber drum, 230V 50/60Hz	250		
711-15-115	Heater for 15-gallon (57 liter) plastic or fiber drum, 115V 50/60Hz	200	14" +/- 1" (35.6 +/- 2.5 cm)	
PailPRO™ 5-Gallon Pail Heaters (19 liter pail heaters)				
710-5-115	Heater for 5-gallon (19 liter) metal pail, 115V 50/60Hz	550	11.25" +/- 1" (28.6 +/- 2.5 cm)	50° to 425° F (10° to 218° C)
710-5-230	Heater for 5-gallon (19 liter) metal pail, 230V 50/60Hz	550		
711-5-115	Heater for 5-gallon (19 liter) plastic pail, 115V 50/60Hz	150	11.25" +/- 1" (28.6 +/- 2.5 cm)	50° to 160° F (10° to 71° C)
711-5-230	Heater for 5-gallon (19 liter) plastic pail, 230V 50/60Hz	150		

Thermostat

Set maximum temperature to automatically be maintained at temperature you require.

Once attached to drum and plugged in, heater will continuously warm drum temperature as high as thermostat setting. Then thermostat will turn heat off and on to maintain temperature.

Actual time it takes to reach temeperature setting is a function of necessary temperature rise and other factors such as nature of material, its specific heat, ambient air temperature, etc.