

Benchmark Thermal

Product Data Sheet for Drum Heaters and Insulating Blankets

FEATURES

- Fits four standard drum sizes
- Metal or non-metal drum versions
- 115V and 230V standard; high wattage 115V configuration available
- 3-prong plug or pigtail termination
- Electrically grounded, insulated screen
- Optional adjustable thermostat
- Heavy hook and spring attachment
- Resistant to many chemical substances
- Components UL Recognized and CSA Certified
- Custom configurations available

APPLICATIONS

Viscosity control, freeze protection, temperature maintenance and melting of solids for:

- Adhesives
- Biofuels
- Mastics
- Plastics
- Resins
- Paints and varnishes
- Waxes
- Oils, fats and greases
- Molasses, syrups, chocolate
- Much more

Please contact the engineering department at Benchmark Thermal, a Division of MCF, LLC, for assistance with specific applications.



GENERAL INFORMATION

Drum Heaters are thin, flexible electrical resistance heaters that may easily be wrapped and secured around drums, pails and tanks. They are made of silicone rubber-reinforced fiberglass cloth laminated around a nickel alloy circuit. This construction provides an even heat transfer, which keeps contents at proper handling or process consistency and limits scorching or degradation of sensitive contents. A sturdy spring and hook arrangement easily attaches these products to 5, 15, 30 or 55gal. drums.

Drum Heaters are available for both metal and non-metal (poly or plastic) drums. The metal version has a temperature range of 50°F to 425°F while the non-metal version has a narrower temperature range of 50°F to 160°F. Both 115V and 230V configurations are available, with the 115V configuration having a high wattage version. The 115V has a 6ft. cord with a 3-prong molded plug; the 230V has a 6ft. cord with a pigtail termination.

Optional, molded-in thermostats are full-range adjustable and limit the temperature of the Drum Heater itself, not the contents of the drum. Several factors affect the actual temperature of the drum contents, including thermostat setting, heater wattage, type of contents and ambient temperature. Multiple heaters may be needed for some applications.

Metal version Drum Heaters cannot be used on non-metal drums due to their higher temperature which will melt non-metal drums; however, non-metal version Drum Heaters may be used on metal drums. Note that the drum contents will heat at a lower rate due to the lower wattage.

Drum Heaters may be used out-of-doors as long as they are protected from rain or snow.

Insulating Blankets increase heating efficiency and reduce operating cost. See Table 3 for more information about our 55gal. drum Insulating Blankets.

How to Order:

1. Select model number (see Tables 2 and 3).
2. Contact factory or representative (see back page for contact information.)

Drum Heaters and Insulating Blankets



Table 1. General Specifications

Characteristic	Value
Drum Heater material and construction	fully vulcanized fiberglass-reinforced silicone rubber encapsulating a nickel alloy wire heating element
Operating temperature	300°F max.
Exposure temperature	400°F max.
Thermostat range: metal version Drum Heaters (DH-*, DHW-*, DHH-*) non-metal version Drum Heaters (XH-*)	50°F to 425°F 50°F to 160°F
Cord length	6ft.
Component approvals	UL, CSA
High-potential dielectric testing: 115V 230V	1250V 1500V
Serviceable parts	none

Table 2. Drum Heater Model Numbers* and Specifications

Model Number	Drum Material	Drum Position	Fits Drum Capacity/Dia. (gal./in.)	Total Wattage (W)	Voltage (V)	Adjustable Thermostat (°F)	Cord Termination	Length/Width (in.)
DH-5-115-TS	metal	vertical	5/11.25	300	115	50 to 425	3-prong plug	30/3
DH-15-115-TS	metal	vertical	15/14.25	500	115	50 to 425	3-prong plug	35.88/3
DH-30-115-TS	metal	vertical	30/18.25	750	115	50 to 425	3-prong plug	52.50/3
DH-55-115-TS	metal	vertical	55/22.5	1000	115	50 to 425	3-prong plug	64.50/3
DHW-5-115-TS	metal	vertical	5/11.25	450	115	50 to 425	3-prong plug	30/4
DHW-15-115-TS	metal	vertical	15/14.25	750	115	50 to 425	3-prong plug	35.88/4
DHW-30-115-TS	metal	vertical	30/18.25	1100	115	50 to 425	3-prong plug	52.50/4
DHW-55-115-TS	metal	vertical	55/22.5	1500	115	50 to 425	3-prong plug	64.50/4
DH-55-115	metal	vertical	55/22.5	1000	115	none	3-prong plug	64.5/8
DHH-55-115-TS	metal	horizontal	55/22.5	500	115	50 to 425	3-prong plug	65.50/8
XH-5-115-TS	non-metal	vertical	5/11.25	300	115	50 to 160	3-prong plug	29/6
XH-15-115-TS	non-metal	vertical	15/14.25	370	115	50 to 160	3-prong plug	38.5/6
XH-30-115-TS	non-metal	vertical	30/18.25	590	115	50 to 160	3-prong plug	51/6
XH-55-115-TS	non-metal	vertical	55/22.5	750	115	50 to 160	3-prong plug	64/6
DH-5-230-TS	metal	vertical	5/11.25	300	230	50 to 425	none	30/3
DH-15-230-TS	metal	vertical	15/14.25	500	230	50 to 425	none	35.88/4
DH-30-230-TS	metal	vertical	30/18.25	750	230	50 to 425	none	52.50/3
DH-55-230-TS	metal	vertical	55/22.5	1000	230	50 to 425	none	64.50/3
DHW-5-230-TS	metal	vertical	5/11.25	450	230	50 to 425	none	20/4
DHW-15-230-TS	metal	vertical	15/14.25	750	230	50 to 425	none	35.88/4
DHW-30-230-TS	metal	vertical	30/18.25	1100	230	50 to 425	none	35.88/4
DHW-55-230-TS	metal	vertical	55/22.5	1500	230	50 to 425	none	64.50/4
DHH-5-230-TS	metal	horizontal	55/22.5	500	230	50 to 425	none	65.50/8
XH-5-230-TS	non-metal	vertical	5/11.25	300	230	50 to 160	none	29/6
XH-15-230-TS	non-metal	vertical	15/14.25	370	230	50 to 160	none	38.5/6
XH-30-230-TS	non-metal	vertical	30/18.25	590	230	50 to 160	none	51/6
XH-55-230-TS	non-metal	vertical	55/22.5	750	230	50 to 160	none	64/6

* Metal version Drum Heaters have the following prefixes: DH, DHW, DHH; non-metal version Drum Heaters have the following prefix: XH.

Drum Heaters and Insulating Blankets



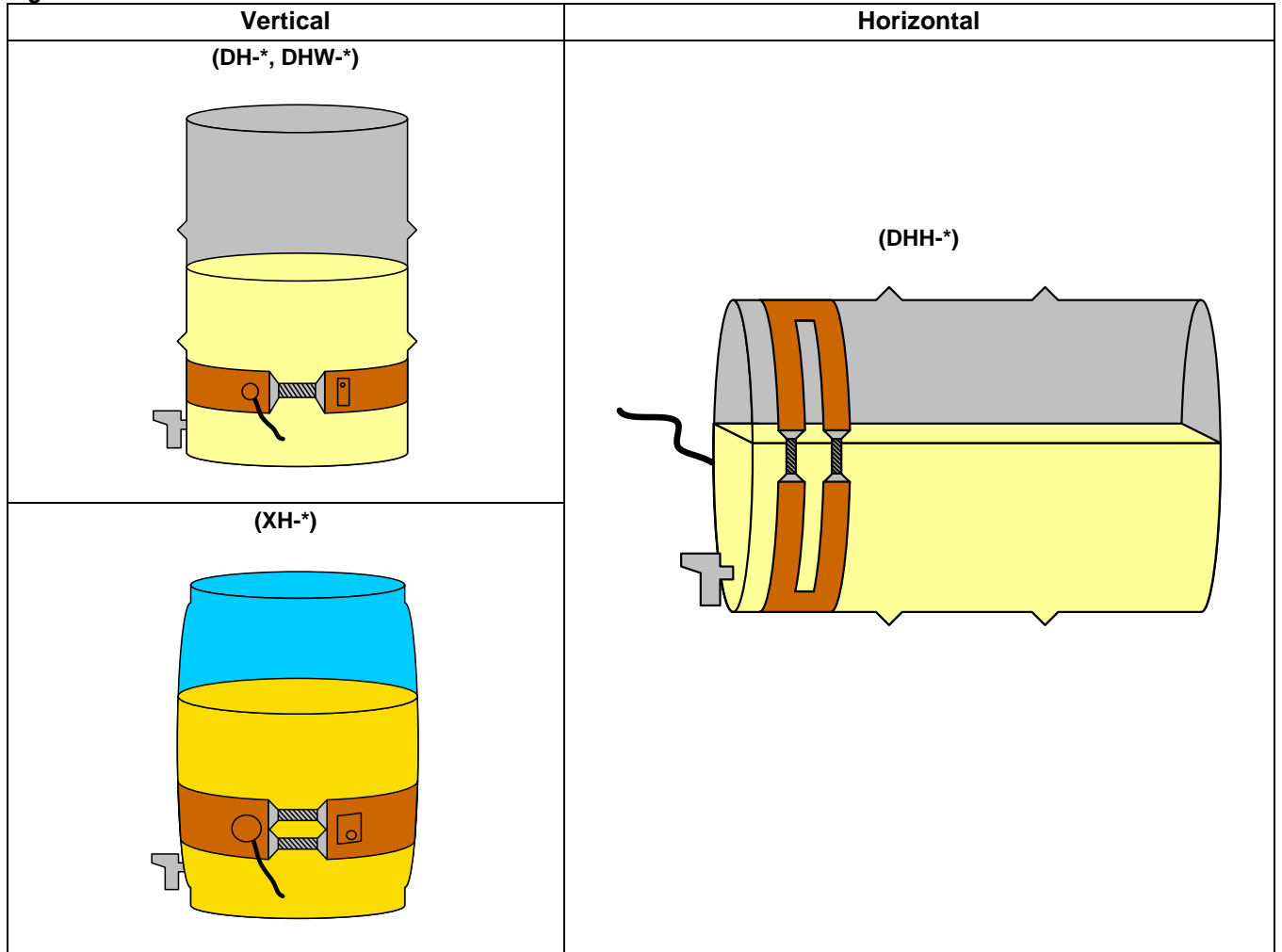
Figure 1. Drum Heater Installed on 55gal. Drum



Figure 2. Drum Heater Models



Figure 3. Drum Heater Orientations



Drum Heaters and Insulating Blankets



DRUM HEATER/INSULATING BLANKET SETS

Selected 55gal. Drum Heaters are available with an Insulating Blanket (see Table 3). Our Insulating Blankets are constructed of bulk fiberglass insulation covered with silicone glass cloth on both sides. Velcro fastening devices make installation easy.

Table 3. Drum Heater/Insulating Blanket Sets

Model Number	Fits Drum Size (gal.)	Drum Material	Wattage (W)
IB-55	55	metal	none
BXH-55-115-TS	55	non-metal	750
BXH-55-230-TS	55	non-metal	750
BH-55-115-TS	55	metal	1000
BH-55-230-TS	55	metal	1000
BHW-55-115-TS	55	metal	1500
BHW-55-230-TS	55	metal	1500

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