

BARREL HEATERS

Acrolab barrel heaters are used to pre-heat liquids in drums or pails to make them less viscous. They are suitable heat sources when heat is required to handle liquids during pouring, dipping, coating or mixing operations. Barrel heaters are made to brace a drum externally and they are easily installed and removed when needed.

Standard Barrel Heater

Standard barrel heaters have a rugged construction, made to withstand the harsh industrial environment. They are available in two styles. The GCX model is a one piece construction heater that comes with a spring loaded handle and a snap action bi-metal temperature controller (220° F). The HDX model is a two piece construction heater that has a latch and trunion fastener with a bulb and capillary thermostat (250° F).

Flexible Barrel Heater

Flexible barrel heaters are made of layers of fiberglass reinforced silicone rubber sheets. When these sheets are vulcanized and bonded under heat and pressure, they form a material that can withstand industrial rough usage, and is highly flexible, durable and tough. Prior to vulcanization, the electrical resistance wire web, and its protective metallic grid (which acts as an electrical ground) are carefully placed between the silicone layers.

Flexible barrel heaters are resistant to most chemicals, fungus and moisture, and can be easily cleaned. The temperature is controlled by a B-200 bimetal thermostat (400° F).

BARREL HEATERS - INSTALLATION & MAINTENANCE

INSTALLATION

Since heat has the tendency to move upwards in liquids, drum heaters should be installed close to the bottom of a vertical drum. Horizontal vessels should have their drum heaters installed such that the terminal box is positioned on the side. This will protect the box from overheating and maintain accessibility to the controls. The HDX model has a quick disconnect latch and trunion fastener, while the GCX model has spring loaded handles that have to be stretched to slide the heater to its proper position on the drum. The Flexible heater is very flexible and will easily adhere to the drum surface. However, when a standard barrel is used, it is recommended to tap gently on both its rims to ensure tightness and good heat transfer.

CONTROL

Standard heaters come with temperature controllers. When the pilot lamp is on, the heater is active. HDX models have bulb and capillary thermostats (250° F). GCX models have snap action bimetal temperature controllers (220° F). After an initial trial these controllers have to be set in proportion to the maximum settings and required temperature. Flexibles come with B-200 bimetal thermostats (400° F).

ELECTRICAL RATING

Barrel heaters are made for 120V or 240V power supplies. Appropriate power cords and plugs are supplied for each voltage and wattage. The power supply should be rated to handle the amperage drawn by the heater. Different liquids absorb heat at different rates so the wattage of a barrel heater should be selected accordingly.

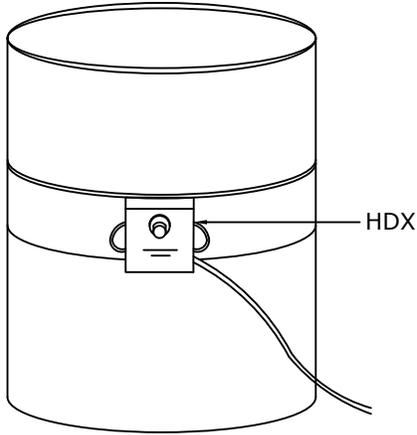
MAINTENANCE

Since the standard barrel is not a sealed product, it should be used indoors and kept away from moisture and contamination. The Flexible heater is moisture and chemical proof, but not waterproof. Flexibles should always be used indoors since water can leak into their thermostat box. In general, barrel heaters are maintenance free. A periodic check to ensure that they are securely fastened to the drum is recommended. The power cord is rated to withstand 220° F and should never come in contact with the heater.

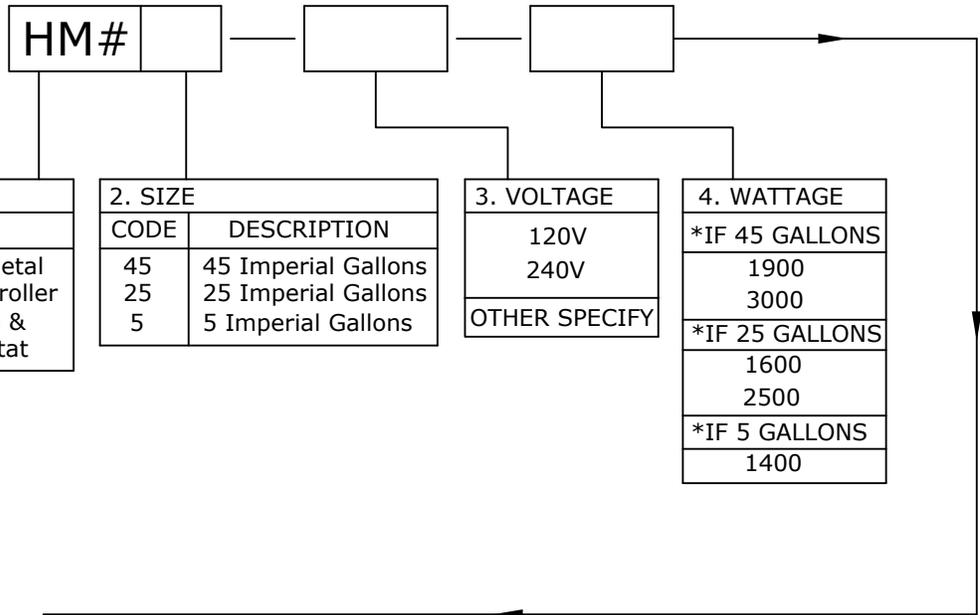
WARNING

Both standard and flexible barrel heaters should not be used on pressure tight containers, containers with explosive materials, or in explosive environments.

BARREL HEATERS



EXAMPLE: HM1-45-240-3000-



1. STYLE	
CODE	DESCRIPTION
HM1	One-Piece w/ Bi-Metal Temperature Controller
HM2	Two-Piece w/ Bulb & Capillary Thermostat

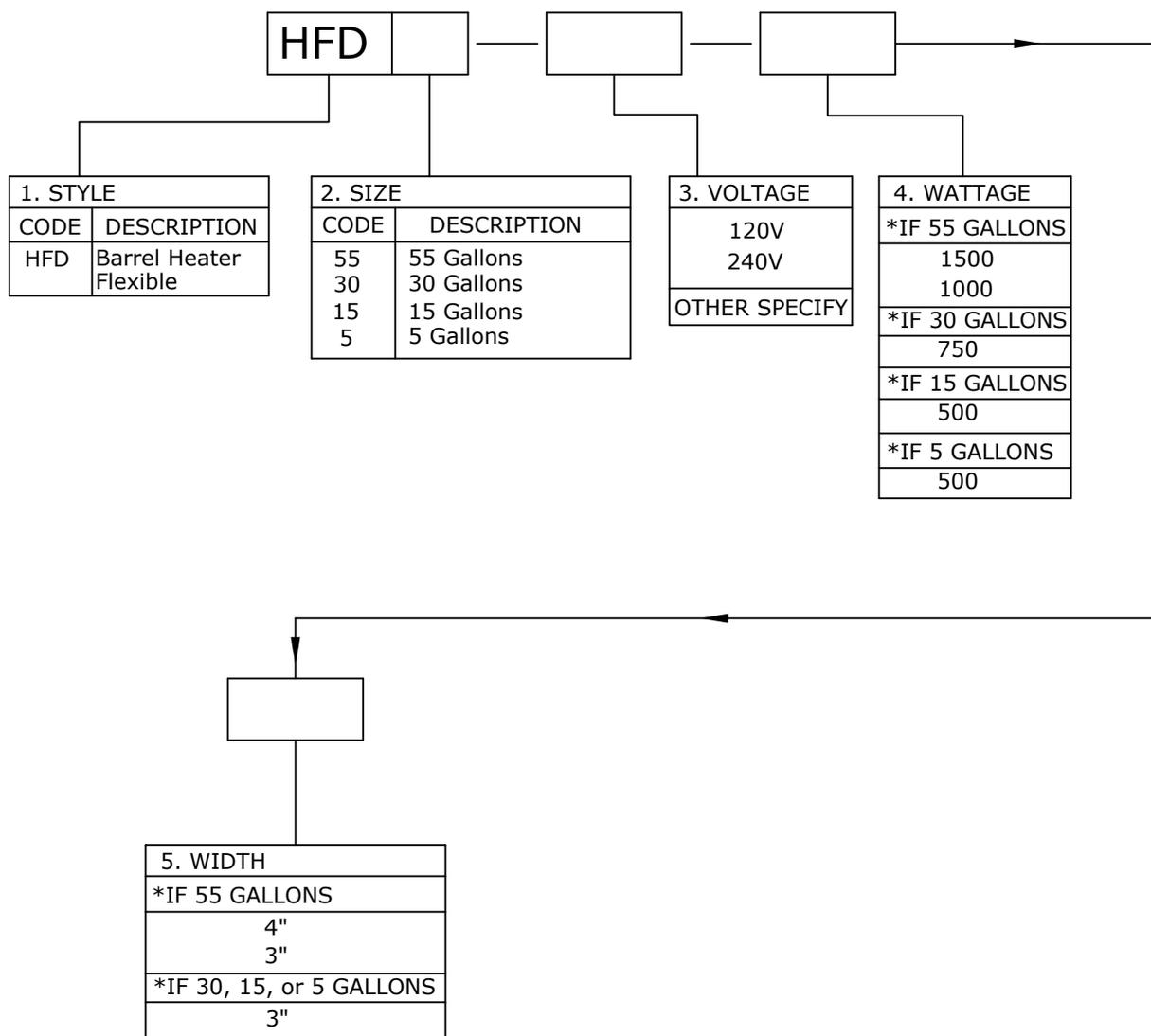
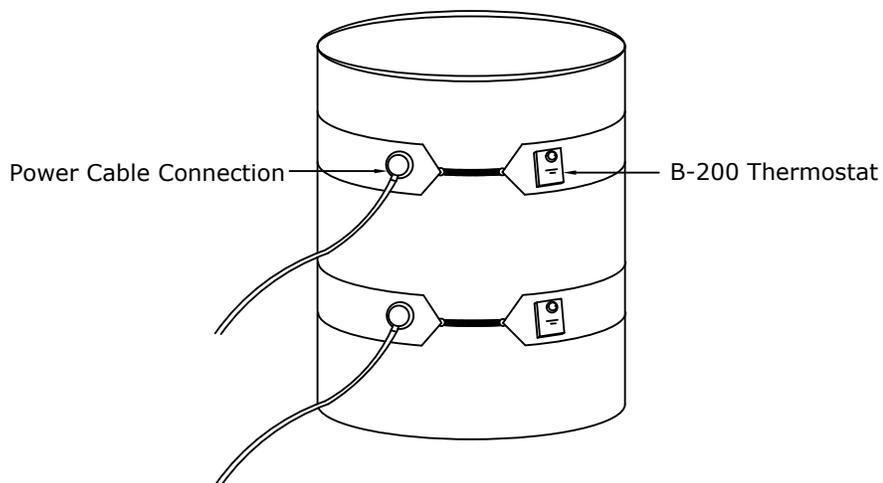
2. SIZE	
CODE	DESCRIPTION
45	45 Imperial Gallons
25	25 Imperial Gallons
5	5 Imperial Gallons

3. VOLTAGE	
120V	
240V	
OTHER SPECIFY	

4. WATTAGE	
*IF 45 GALLONS	
1900	
3000	
*IF 25 GALLONS	
1600	
2500	
*IF 5 GALLONS	
1400	

5. CLAMPING	
CODE	DESCRIPTION
LT	Latch & Trunion
SL	Spring Loaded

BARREL HEATERS - FLEXIBLE



1. STYLE	
CODE	DESCRIPTION
HFD	Barrel Heater Flexible

2. SIZE	
CODE	DESCRIPTION
55	55 Gallons
30	30 Gallons
15	15 Gallons
5	5 Gallons

3. VOLTAGE
120V
240V
OTHER SPECIFY

4. WATTAGE
*IF 55 GALLONS
1500
1000
*IF 30 GALLONS
750
*IF 15 GALLONS
500
*IF 5 GALLONS
500

5. WIDTH
*IF 55 GALLONS
4"
3"
*IF 30, 15, or 5 GALLONS
3"