

HSHP - Drum Heater (up to 220 °C) - Operating Instructions

Safety instructions

1. Read all instructions before using the heater.
2. When not in use unplug the mains lead.
3. Do not immerse the heater in liquids.
4. Do not touch the surface of the heater during operation. After switching off, allow the heater to cool completely before handling.
5. Use the heater only for its intended use, as described in these instructions.
6. Disconnect from the electrical supply before removing terminal cover.
7. The heater must not be used if it is damaged in any way. If the mains lead is damaged, it must be replaced by the manufacturer or a similarly qualified person in order to avoid hazard, using a special flexible cord.
8. The heater should be connected to the electrical supply via a residual current device or other equipment providing protection from electric shock.
9. During operation, vent the drum to avoid build up of internal pressure.



Electrical requirements

Check that the voltage marked on the heater corresponds to the electricity supply that it will be connected to which must be AC (Alternating Current).

The HSHP is of double insulated construction so does not require an earth connection. A suitable approved plug for the country in which the heater is being used should be fitted to the mains lead by a suitably qualified person.

Instructions for use

1. The High Power Drum Heater (HSHP) is designed to be used on steel drums for the warming of the drum contents. It can be used on plastic drums if the thermostat allows a max. temperature of 90°C and the surface load does not exceed 750 W/m².
2. Fit the heater to the drum by wrapping around and securing with the quick release buckles. Ensure the position chosen is fully covered by the contents of the drum.
3. Position the heater so only the amount of drum contents required is heated. This will aid warm up time. i.e. if the full contents of the drum are required position the heater at the bottom of the drum. If only a small amount of the contents is required the heater can be placed nearer the top of the drum.
4. Set the thermostat to the required temperature.
NOTE: The thermostat sensor is positioned to sense the temperature at the junction between heater surface and drum, not the drum contents. Obtaining the ideal temperature of the drum contents must be via experimentation and experience of the material being heated.
5. Plug the heater into the electricity supply. The red LED indicates "ready for operation".
6. The heater jacket will begin to heat up and continue until the required temperature set by the thermostat is reached. It will then cycle at this set point until the thermostat setting is changed or the heater is removed from the electricity supply.
7. Switch off and remove the heater from the drum before discharging the contents. This will avoid contaminating the heater from spillages.
8. Do not bend or crease the jacket when it is plugged in. This could lead to overheat and damage the jacket.

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Cleaning & storage

Before Cleaning the heater always disconnect from the electricity supply. Wipe the jacket and terminal box with a damp cloth. Do not use solvents or scouring agents and never immerse the heater in liquid.

When not in use, the heater can be folded rolled up for storage. For further information on use or service contact the manufacturer or supplier.

Technical data

Max. temperature of insulation	220 °C
Outer material	Waterproof Teflon (PTFE)
Insulation material	Fibreglass
Protection class	II
Cable length	4 meters
Type of cable	H07RN-F with Schuko-plug
Fastening	Quick-release buckles
Control	Capillary pipe thermostat or digital thermostat
Control range Capillary thermostat	20 – 220 °C (optional: 0 – 40 °C, 0 – 90 °C, 0 – 120 °C)
Control range Digital thermostat	On demand (standard: 0 – 220 °C)
Heating zones	1 (2 heating zones on demand)
Special sizes possible	yes
Food approval	EU 10/211. US FDA regulation - 21 CFR 177 1550

Drum size 200 liters					
Power at 230 V	Length	Width	Matches Ø	Control Range	Part-No.
1200 W	1950 mm	850 mm	573 – 621 mm	0 – 40 °C	387B.006
				0 – 90 °C	387B.007
				0 – 120 °C*	387B.003
				20 – 220 °C*	387B.001
				Digital thermostat 0 – 220°C*	387F.001
1800 W *	1950 mm	850 mm	573 – 621 mm	0 – 40 °C	387B.008
				0 – 90 °C	387B.009
				0 – 120 °C	387B.004
				20 – 220 °C	387B.002
				Digital thermostat 0 – 220°C*	387F.002

*for steel drums only

Find more information about us and our products on www.freek-fassheizungen.de or www.freek-heaters.com.

No warranty claims can be derived from these user instructions.

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