

# IBC/A - Container Base Heater (up to 150 °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 container to avoid building up 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 IBC/B 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

Before placement of the IBC inner bag, the heater mat should be placed flat on to the base of the container with the printing upwards. Position the cut-out section of the mat evenly around the drain of the IBC and ensure that the sides of the mat are not riding up the walls. Position the power lead of the heater mat up the inside wall of the container and over the side.

Place the bag inside the IBC spreading it as evenly as possible over the surface of the heater mat. When filling, continue to push the walls of the bag outwards to ensure it sits flat on the heater mat and so ensuring good heat transfer to the contents.

When the bag is full, place the cable and plug that is protruding, on top of the bag.

## Heating Operation

When the contents of the IBC are required to be heated follow the steps detailed below.

- 1) Open the lid of the IBC and retrieve the heater mat cable from the top of the bag. Place the cable over the side of the container.
- 2) Clip the control box over the top edge of the container side by means of the stainless steel bracket on the rear of the box. Ensure that the box is not facing direct sunlight, as this will increase the internal temperature of the box. On containers with a metal frame it is important that the bracket is in firm contact with the metal of the container as this contact forms an electrical earth.
- 3) Connect the 3-core supply cable from the control box to a 230V single phase earthed supply and switch on.
- 4) At this point, the controller will be displaying or as it is not receiving a signal from the heater mat sensor. However, the heater mat should not be plugged in until the residual current device has been tested. Test the RCD by pressing the test button (T). This should cause the device to trip (Lever trips to the "+" position). If the device does not trip, disconnect the power supply and **do not** use the equipment. If the RCD tests satisfactorily, continue as below but do not re-set the device at this stage.

# IBC/A - Container Base Heater (up to 150 °C) - Operating Instructions

- 5) Insert the plug on the heater mat cable into the socket in the control box. The plug locates in a keyway in the socket, so can only be inserted in one orientation. When the plug is fully inserted; lock in position by turning the locking ring clockwise.
- 6) Re-set the RCD by pushing the lever to the "0" position and then to the I position. Power will now be applied to the heater mat. The required switch off temperature should now be set on the controller.
- 7) Set the switch off temperature of the controller (0 to 150°C) in the following way:
  - a) Press button L1. The controller will display "1SP" for 2 seconds followed by the current switch off temperature.
  - b) Change the switch off temperature by using the arrow keys ▲ & ▼
  - c) When the required switch off temperature is displayed close the lid of the control box and the controller will revert to operating mode.

## 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 coiled up for storage. Please do not coil the mat tighter than dia. 150 mm. For further information on use or service contact the manufacturer or supplier.

## Technical data

max. temperature	150 °C
Outer material	Silicone
Insulation material	None
Protection class	II
Cable length	2 meters
Type of cable	H07RN-F with Schuko-plug
Fastening	-
Control	Electronic control
Control range	0 – 150 °C
Heating zones	1
Special sizes possible	yes

Container size	Power at 230 V	Length	Width	Part-No.
1000 liters	2700 W	1035 mm	850 mm	387K.004

Find more information about us and our products on [www.freek-fassheizungen.de](http://www.freek-fassheizungen.de) or [www.freek-heaters.com](http://www.freek-heaters.com).

No warranty claims can be derived from these user instructions.

## Contact

Friedr. Freek GmbH  
Sudetenstraße 9  
58708 Menden  
Tel.: +49 2373 9590 0  
Fax.: +49 2373 9590 30

[freek-fassheizungen.de](http://freek-fassheizungen.de)



Download our contact details on your smart phone. Just scan the code with your QR-Reader-App.

