

IBC SILICONE BASE HEATER

Installation & Operation



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Product warranty

We warrant that this product will be free from defects in materials and workmanship for a period of one year (up to 1600 hours of use) from the date of shipment. If this product proves defective during its warranty period the manufacturer will either repair the defective product without charge for parts and labor, or provide a replacement in exchange for the defective product.

This warranty shall not apply to any defect, failure or damage caused by improper use or improper or inadequate maintenance and care.

Introduction

An IBC silicone base heater is an effective and powerful way to heat up contents inside an IBC container.

The base heater is perfect for heating viscous or semi-solid products and making them very easy to discharge from a container with minimal to no waste product.

The 2700W base heater can heat e.g. water in a fully loaded IBC from 15°C to 70°C in less than 40 hours. If a faster heating process is required we recommend adding an IBC insulation jacket and lid.

Kuhlmann Silicone Base Heaters are produced in highly durable and long lasting silicone materials that easily can withstand the weight on a fully loaded IBC. The base heater fits a variety of intermediate bulk containers including IBCs from Schütz, GNX, Mauser, Werit and Greif.

The silicone base heater is very easy to install and to use - simply remove the bulk container from the IBC frame and install the silicone heater in the very bottom on the frame. Insert the container on top of the heater, fill the container and you are all set to heat the contents. This also makes the heater ideal for heating and maintaining temperature while transporting the IBC.

The IBC silicone base heater is controlled by an adjustable digital temperature controller for safe and precise temperature controlling.

Important safety instructions

- Always inspect the heater and electrical connections before use.
- Only power on when the heater has an IBC container on it with at least a little content in it.
- Only use for intended purpose and container size.
- Never immerse the heater into liquids.
- Do not make cuts in the heater and keep sharp objects away .
- The heater should never be left unattended while in operation.
- Disconnect the heater when not in use.
- Do not try to repair damaged or faulty heaters. All repairs must be done by the manufacturer.
- Be aware that the heater can get very hot during operation. Do not touch it without proper protection gloves.



Failure to read, understand, or follow the safety instructions may result in injurie or fire hazard.

Installation of the heater mat

1. 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.
2. Position the cut-out section of the mat evenly around the drain of the IBC and ensure that the sides of the heater mat are not riding up the walls.
3. Position the power lead of the heater mat up the inside wall of the container and over the side.
4. Place the bag inside the IBC spreading it as evenly as possible over the surface of the heater mat.
5. 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.
6. When the bag is full, place the cable and plug that is protruding on top of the bag.
7. Connect to controller, connect power, and adjust temperature.

Connecting the heating mat

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

1. Connect the heating mat to the external controller.
2. Connect the 3-core supply cable from the control box to a 230V single phase earthed supply and switch on.

The power connection must be adequate rated to electrically support the voltage and power of the heater. Follow all local electrical codes for proper connections.

Operating the controller

Adjust to the desired temperature by pressing the up and down arrows. When the desired temperature is shown on the display press the OK button.

A small dot in the lower right corner of the display will light up when the temperature is below the threshold temperature and the heating blanket is heating up.

Refer to the DigiTherm Manual for further information and advanced functions.



Cleaning

The heating mat and the controller should be kept clean and free from dirt, liquids, and similar. Clean with a damp or moist cloth. Mild detergent can be used, but test first to see that it does not remove the text or dissolve the silicone.

Maintenance and repairs

Check regularly that the heating mat and controller are intact and that the cables are in good condition. Check the plugs for debris, cracks or other damage.

Do not try to repair the equipment yourself! In case of damage to the heating mat or controller that part must be taken out of use and returned to the seller for repairs.

The only exception is the power cable for the controller, which can be changed by a trained electrician if needed.

Technical specifications

Application areas

Heating of IBC containers.

Working temperatures

0-150 °C (+/- 5°C)

Power

Voltage: 230 VAC

Power: 2700W

Sensor

PT100

Environment temperature:

-10 - 40°C

IP-Rating

Heating blanket: IP64

Controller: IP54

Part numbers

Base Heater incl. Controller: 13-1436S

Base Heater: 13-1436A

Controller: 19-2674

Related product ranges

Drum heaters
for food stuff



Drum heaters



Insulation jackets



IBC heaters



Silicone drum heaters

