

DRUM & CONTAINER HEATER

Installation & Operation



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Introduction

Our drum heaters are perfect for drums where you want to keep the content at a consistent temperature, a certain viscosity or keeping the content from freezing.

Equipped with an easy to use thermostat with a heating range from 0-40°C, 0-90°C, or 0-200°C makes this drum heater ideal for almost any purpose.

The drum heaters are designed in a durable and long lasting high quality lightweight design and the construction together with quick release webbing straps makes the drum heater easy to attach to any standard size drum.



WARNING

Read and understand this manual before installing and operating our drum heaters. Failure to understand instructions and safety precautions could result in injury or be fatal. Drum heaters should only be operated by qualified personnel.



Important safety instructions

- **Failure to operate by these instructions may result in fire or injuries.**
- The heater should only be used by trained personnel, that have read and understood this manual.
- Always inspect the heater for physical damage before use.
- Electrical wiring should be done by trained personnel and must follow local laws and regulations.
- The end user is responsible for providing a suitable disconnection device and electrical protection devices. We recommend use of a ground fault circuit breaker.
- Only use the heater to intended size drum/container.
- Never overlap the heater over the temperature controller.
- Never turn the heater on without a filled drum/container to cool it.
- Use only for materials or liquids which are receptable to heat transfer.
- Never place the heated drum close to other objects and keep at least 50cm between heated drums in use.
- Never immerse the heater into liquids. If liquids are spilled on the heater, disconnect, clean, and dry before further use.
- Keep the heater away from sharp objects.
- Never handle the drum heater while in operation. Always disconnect the heater and let it cool down before handling.
- Always monitor the heater while in use.
- Disconnect the heater when not in use.
- Do not fold the blanket when storing. Roll or stack unfolded instead as shown in the instructions.
- Do not try to repair damaged or faulty heaters.

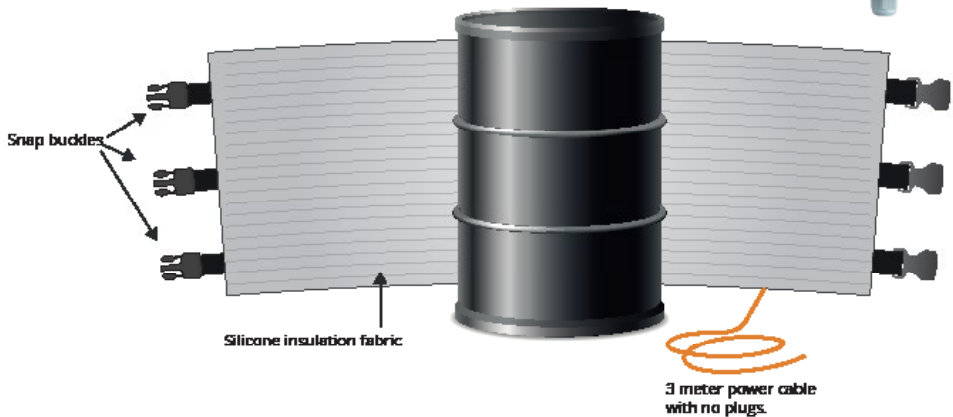
Product warranty


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.

Drum Heater Specifications

Analogue or digital temperature control



Adjustable temperature controller. Analogue or digital.	0-40°C (32-104°F), 0-90°C (32-194°F), or 0-200°C (32-392°F). 110V or 230V models.
Power cable	3 meter (10 feet) grounded cable without plug.
Insulation	Polyester insulation. Glass insulation (0-200°C).
IEC Protection Class II	Double insulated. Does not require a connection to earth. 

Installation and operation

STEP 1 - Unpacking and inspection:

Unpack the heater and place it on a clean and dry surface. Release the snap buckles so the heater lays flat and perform an inspection of the heater. Do not use if the heater is damaged or torn.

STEP 2 - Install plug to power cable:

For 110V model use a standard 3-prong plug to appropriate electrical power supply.

For the 230V model use a 3-pin grounded plug.

There are two different kinds of cable for the heaters:

Brown, Blue, Green-Yellow

Black, White, Green-Yellow

The black/brown wire should be connected to Line 1. The white/blue wire should be connected to Line 2. The green-yellow wire should be connected to earth ground. The power connections must be adequately rated to electrically support the voltage and amperage of the heater. Follow all local electrical codes for proper electrical connections.

STEP 3 - Mounting the heater to the drum:

Before mounting the heater make sure that the power is unplugged.

Install the heater to from the base of the drum and up. Make sure that the power cable attached to the temperature controller is pointing downward.

Close the snap buckles and fasten the heater firmly to the drum by pulling the nylon straps.

When tightening the heater, please verify that the overlapping layer is the cold layer. The cold layer side is located on the side where the temperature controller is. The cold side must always be on top.



CAUTION! Only use heater on the intended size drum. Failure to do so can be dangerous and result in injury and heater malfunction.

STEP 4 - Power on and temperature control:

Prior to switching on the heater please check with the drum- and content manufacturer that it is safe to heat to the desired temperature. Make sure that the container is vented to prevent internal pressure build.

Plug in the power cable when the heater has been mounted correctly to the drum.



Analogue temperature controller:

Adjust to the desired temperature by turning the wheel. The thermostat wheel will click when the current temperature is hit.



Digital temperature controller:

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

STEP 5 - Power off and unmounting:

When heating process is done, unplug the power cable and wait for the heater to cool down. When cooled down release the snap buckles and remove the heater from the drum.

STEP 6 - Storing:

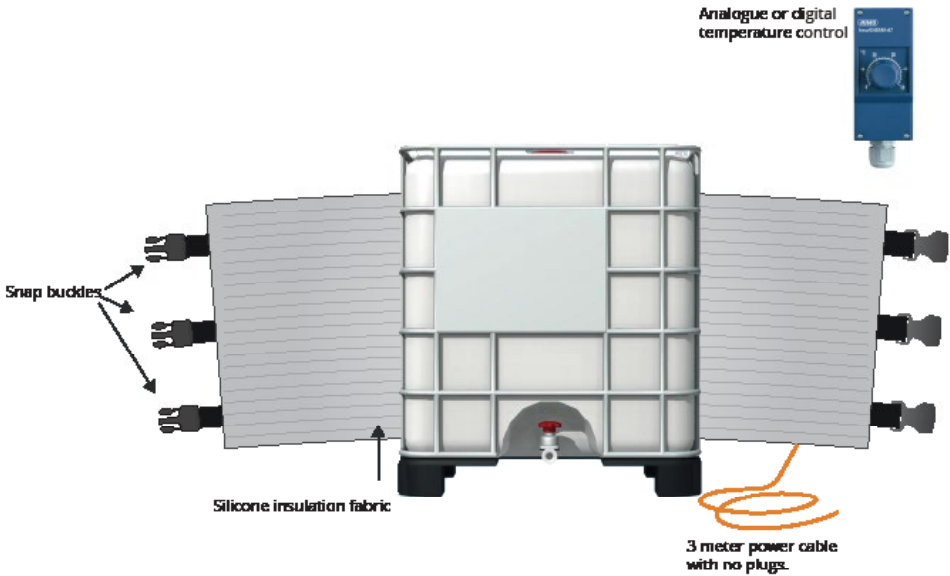
Please do not fold and stack the blankets when not in use.

Either:

- Stack the blankets unfolded.
- Roll up the blankets with the underside out (label and controller on the inside), as shown to the right. Roll up the cable and put it inside the rolled up blanket. Secure with tape or straps if necessary. The blankets can then be stacked.



IBC Container Heater Specifications



Number of thermostats	From 1 to a maximum of 3 thermostats to be installed.
Adjustable temperature controller. Analogue or digital.	Temperature range: 0-90°C (32-194°F). 110 or 230V models.
Insulation	Polyester insulation.
Power cable	3 meter (10 feet) grounded cable without plug.
IEC Protection Class II	Double insulated. Does not require a connection to earth.



Installation and operation

STEP 1 - Unpacking and inspection:

Unpack the heater and place it on a clean and dry surface. Release the snap buckles so the heater lays flat and perform an inspection of the heater. Do not use if the heater is damaged or torn.

STEP 2 - Install plug to power cable:

For 110V model use a standard 3-prong plug to appropriate electrical power supply.

For the 230V model use a 3-pin grounded plug.

There are two different kinds of cable for the heaters:

Brown, Blue, Green-Yellow

Black, White, Green-Yellow

The black/brown wire should be connected to Line 1. The white/blue wire should be connected to Line 2. The green-yellow wire should be connected to earth ground. The power connections must be adequately rated to electrically support the voltage and amperage of the heater. Follow all local electrical codes for proper electrical connections.

STEP 3 - Mounting the heater to the IBC container:

Before mounting the heater make sure that the power is unplugged. Install the heater to from the base of the container and up. Make sure that the power cable attached to the temperature controllers are pointing downwards. Close the snap buckles and fasten the heater firmly to the container by pulling the nylon straps.

When tightening the heater, please verify that the overlapping layer is the cold layer. The cold layer is located on the side where the temperature controller is. The cold side must always be on top.



CAUTION! Only use this heater on a 1000 liter IBC container. Failure to do so can be dangerous and result in injury and heater malfunction.

STEP 4 - Power on and temperature control:

Prior to switching on the heater please check with the IBC container- and content manufacturer that it is safe to heat to the desired temperature. Make sure that the container is vented to prevent internal pressure build.

Plug in the power cable when the heater has been mounted correctly to the drum.



Analogue temperature controller:
Adjust to the desired temperature by turning the wheel. The thermostat wheel will click when the current temperature is hit.



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

STEP 5 - Power off and unmounting:

When heating process is done, unplug the power cable and wait for the heater to cool down. When cooled down release the snap buckles and remove the heater from the drum.

STEP 6 - Storing:

Please do not fold and stack the blankets when not in use.

Either:

- Stack the blankets unfolded.
- Roll up the blankets with the underside out (label and controller on the inside), as shown to the right. Roll up the cable and put it inside the rolled up blanket. Secure with tape or straps if necessary. The blankets can then be stacked.



Troubleshooting

Problem	Solution
The heater does not heat	Make sure that the heater is properly connected to power outlet (and to correct voltage). Also make sure that the assembly of the power plug has been assembled correctly. Check to see if there is a resistance reading using an ohm-meter.
The digital display does not work	Make sure that the power is properly connected and to the correct voltage.
The heater does not fit the drum	The heater delivered is designed to fit a specified size. Verify that the size meets the drum's size.



Related drum heating products

Drum heaters
for food stuff



Base Drum heaters



IBC heaters



Insulation jackets



Silicone drum heaters

