

BFV DRUM-HEATERS

BFV drum-heaters installation manual



- Heating cables
- Flexible electrical resistors
- Heating bases
- Heating modules
- Crankcase heaters
- Heating blankets
- Heating mats
- Heating foil
- Thermostats and temperature control devices
- Heating kits and accessories

Installation manual

BFV drum-heaters standard range



Index

BFV drum heaters

Introduction to the installation manual -----	Pg. 3
BFV heating blankets -----	Pg. 3
Main Characteristics-----	Pg. 4

Safety Instructions

Important safety Instructions -----	Pg. 5
User requirements of the heating blankets -----	Pg. 5

Installation / Operating Instructions

BFV drum-heaters | straps and buckles | **AT056** integrated analog thermostat

Installation of the drum-heaters -----	Pgs. 6 to 8
AT056-i Integrated analog thermostat -----	Pg. 9

Installation / Operating Instructions

BFV drum-heaters | velcro | **AT056** analog thermostat

Installation of the drum-heaters -----	Pgs. 10 to 12
AT056 analog thermostat -----	Pg. 13

Installation / Operating Instructions

BFV drum-heater | **DPA** digital programmable thermostat

Installation of the drum-heaters -----	Pgs. 14 to 16
DPA digital programmable thermostat -----	Pg. 17

Troubleshooting Guide

Contact the manufacturer -----	Pg. 18
Troubleshooting guide -----	Pg. 18

News

Heating blankets for high-voltage cables -----	Pg. 19
--	--------

Heating blankets for drums

Installation manual

- Please read carefully this manual before installing the **BFV** drum-heater.
- Not understanding clearly this manual may be the cause of serious accidents or injuries.
- The **BFV** drum heater must be installed only by qualified personal.

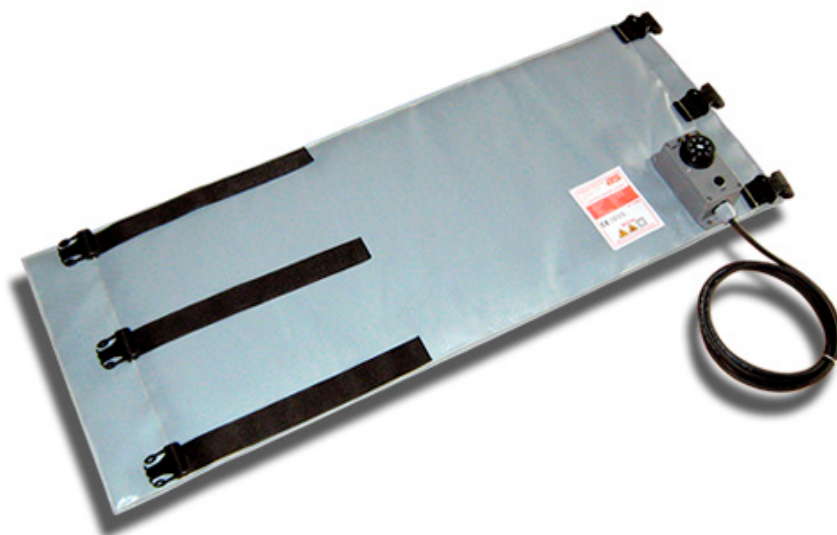
BFV drum heaters range

Utilities of the product:

The **BFV** range of drum-heaters, are designed to heat the contents inside either metal or plastic drums.

For an optimal function of the drum heater, read the instructions carefully before use.

BFV



General characteristics

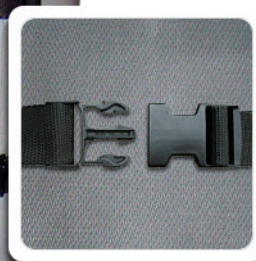
• **Fabric**

Silicone coated fiberglass



• **Fastening device**

Nylon straps with plastic buckles



• **Label**

Technical characteristics and CE marking



• **AT056**

Analog thermostat 0-90° C included as standard



• **Power cable**

Connecting cable to mains



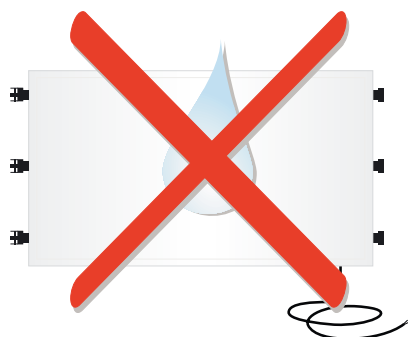
BFV

Security instructions

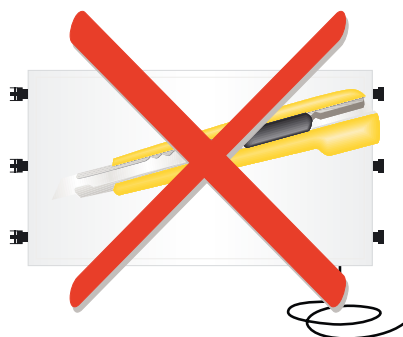
Important safety Instructions

The user who has not read or understand all the steps in these instructions is not qualified to use this product.

- Check for suspected damage to the heater like rips, punctures, etc.
- Never immerse the heater into liquids.
- Keep sharp metal objects away from the drum heater.
- Avoid volatile fuels near the heater when it is running.



Do not dip into liquids



Do not expose to sharps



Avoid volatile fuels

- Do not use the heater with tears or breaks in the surface.
- If the heater is damaged or malfunctions, do not repair the heating blanket, contact the manufacturer.
- Do not crush the heater or subject it to severe stress, neither the power input cable (mains cable).
- When the heater is not in use, unplug from mains.
- Before removing the heater, wait until it is cold.
- Use the heater for specific drums, not used for other applications.
- Do not overlap the blanket when the drum heater dimensions are larger than the container.

The end user must meet the following requirements

- Only qualified personnel are authorized to handle and connect the electrical wiring.
- All electrical wiring must follow the electrical applicable regulations.
- The final installation and wiring must comply with current regulations.
- The end user is responsible for providing a secure network and, if necessary, give it the necessary mechanisms for maximum safety (thermostats, icp, breaker, etc.).

BFV drum-heater | Straps and buckles | AT056 integrated thermostat

Installation / operating instructions:

Installation instructions for the heating blankets of the **BFV** range, with integrated analog adjustable thermostat **AT056**.

It is important to read and understand this manual thoroughly before operating the drum heater.

These instructions are for the following standard models, as well as blankets that incorporate the integrated **AT056** thermostat:

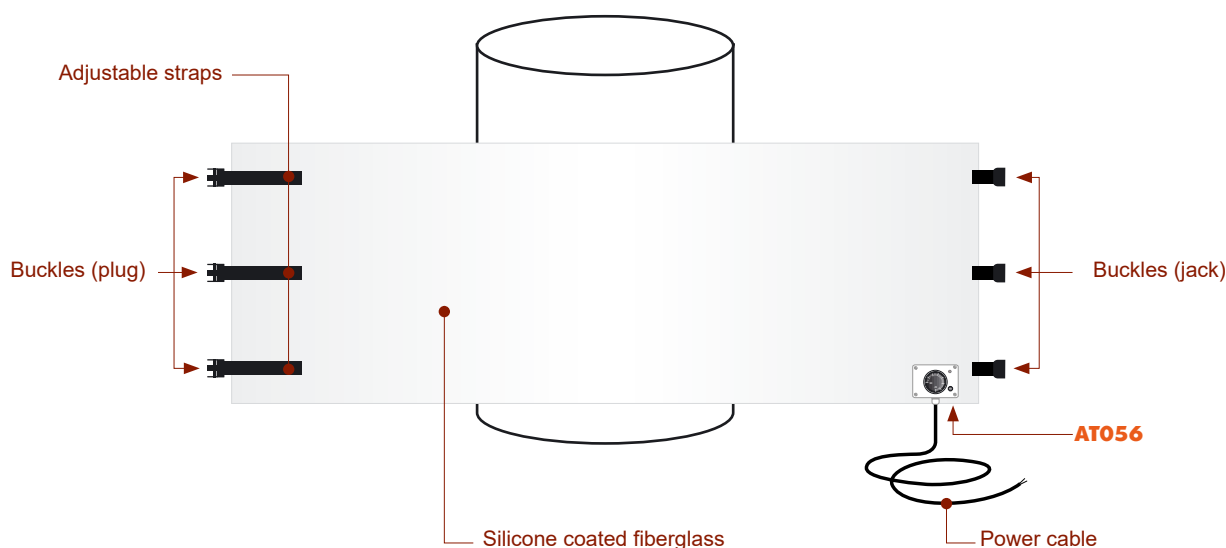
- BFV1020400250
- BFV1250450275
- BFV1250450625
- BFV1650350575
- BFV1650350750
- BFV17704501000
- BFV19504501000
- BFV1950850900
- BFV19508501500
- BFV19508502300
- BFV17709001500

Step 1

- 1.1. Get the drum-heater out of the box. Be careful not to damage the **AT056** thermostat.
- 1.2. Make a visual inspection of the heating blanket. We will not use the heater if it shows a torn or damaged.
- 1.3. The inspection and installation is preferably done by two people.

Step 2

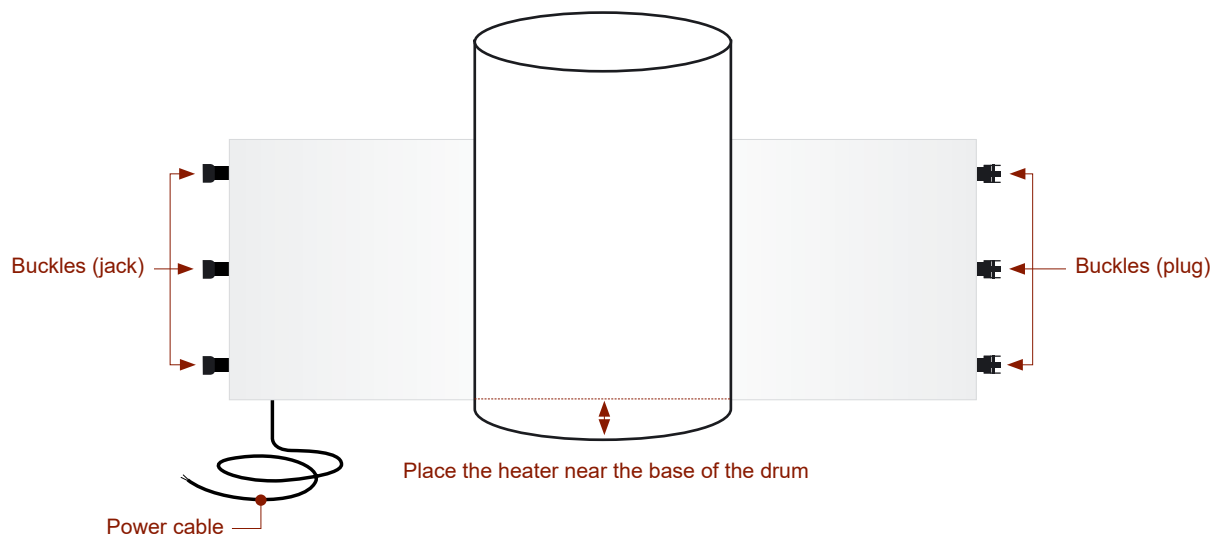
- 2.1. Place the heater on a clean and dry surface.



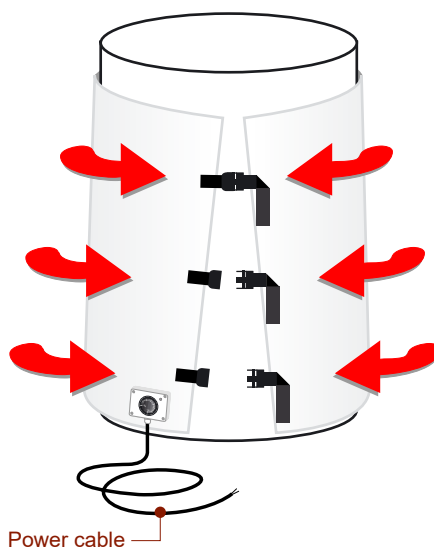
Installation of the drum-heaters

2.2. Determine the best place to put the blanket: It is recommended to put on the bottom of the drum or container.

The thermostat and the supply cable of the heating blanket should be at the bottom.

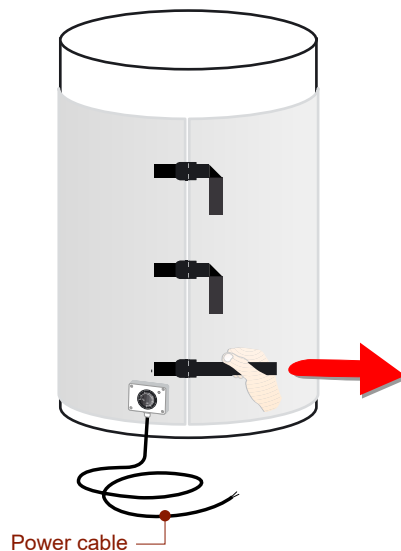


2.3. Place the heater around the body of the drum, tightly hugging the blanket with the straps and buckles.



Installation of the drum-heaters

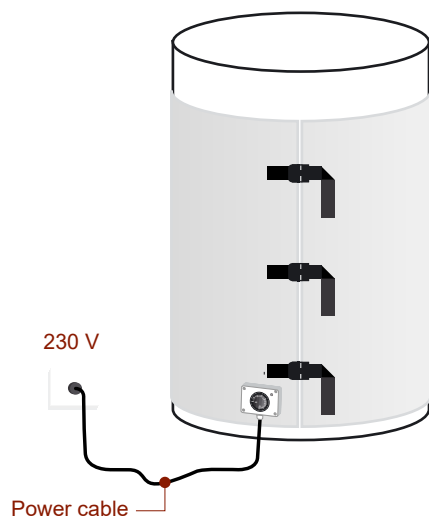
2.5. Firmly tighten the blanket to the body of the drum, pulling the straps until the proper tension is achieved.



Step 3

3.1. Connect the power cable to the mains..

The electrical installation where the heater will be connected, must be properly evaluated, and take into account power and tension of the blanket, to avoid failures or errors.



Thermostat

AT056-i

Thermostat incorporated as standard with our heating blankets:

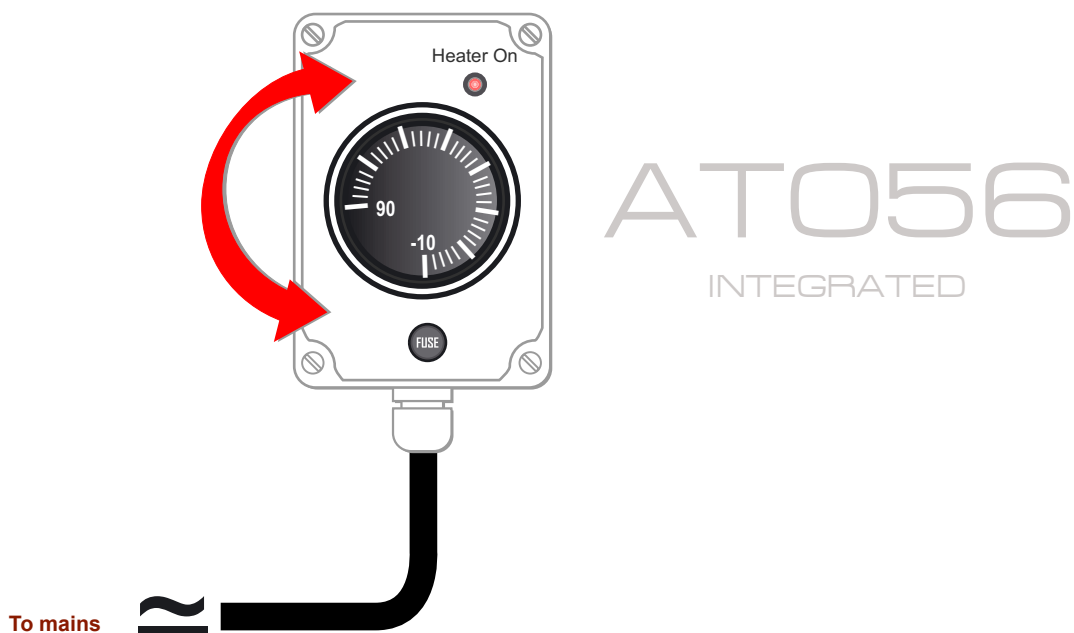
AT056



Integrated economic analog thermostat:

- Analog thermostat
- Temperature range: 0-90° C
- Voltage: 230 V
- Maximum load current: 15 A
- On/Off differential: 4° C
- Inner sensor

For heating blankets incorporating the adjustable analog thermostat **AT056**: Set the thermostat knob to the desired working temperature. The thermostat can be adjusted from 0 to 90° C.



BFV drum-heater | velcro | AT056 analog thermostat

Installation / operating instructions:

Installation instructions for the heating blankets of the **BFV** range, with analog adjustable thermostat **AT056**.

It is important to read and understand this manual thoroughly before operating the drum heater.

These instructions are for the following standard drum-heaters, as well as the blankets that incorporate the thermostat **AT056**:

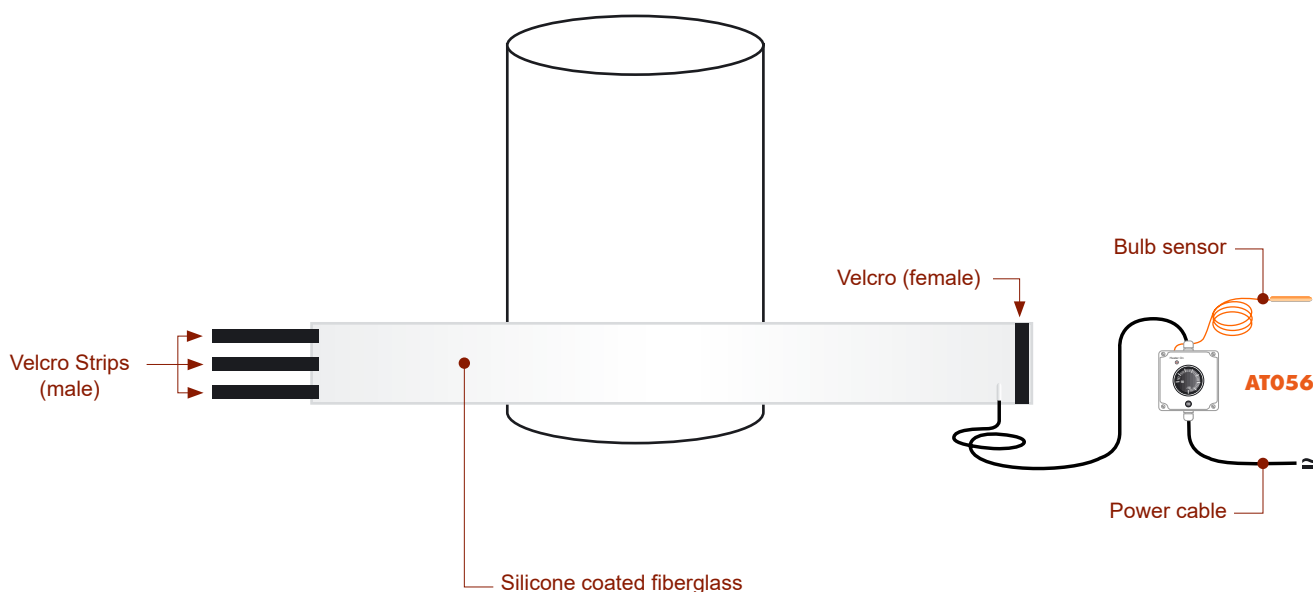
- BFV845150200
- BFV1005150300
- BFV1250150350
- BFV1385150750
- BFV1770150750

Step 1

- 1.1. Get the drum-heater out of the box.
- 1.2. Make a visual inspection of the heating blanket. We will not use the heater if it shows a torn or damaged.
- 1.3. The inspection and installation is preferably done by two people.

Step 2

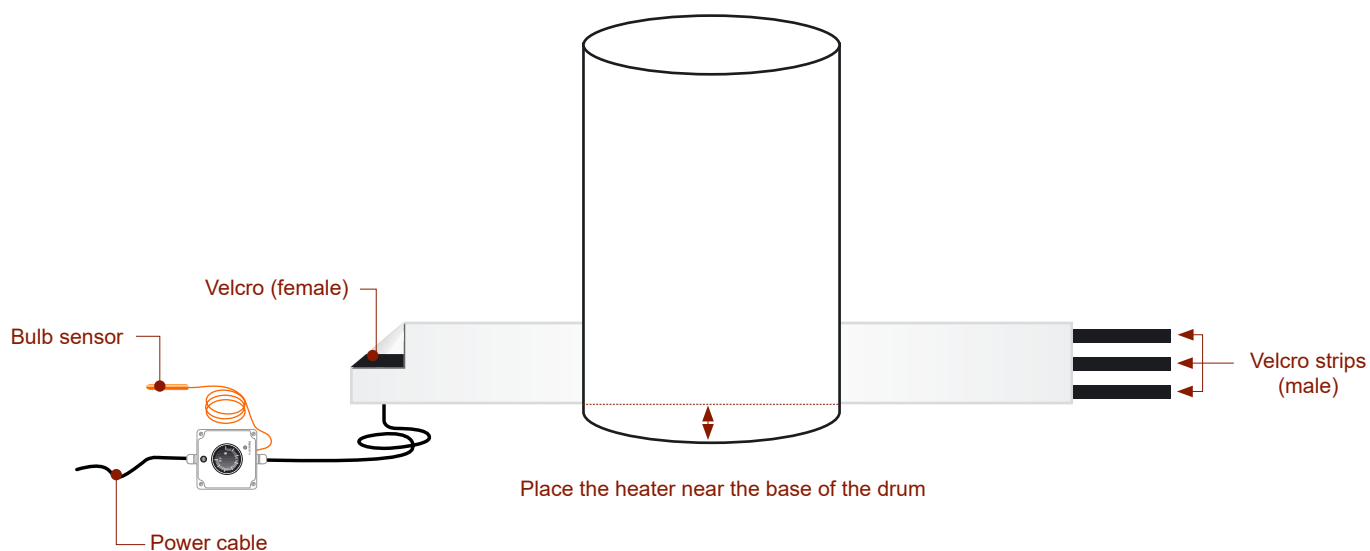
- 2.1. Place the heater on a clean and dry surface.



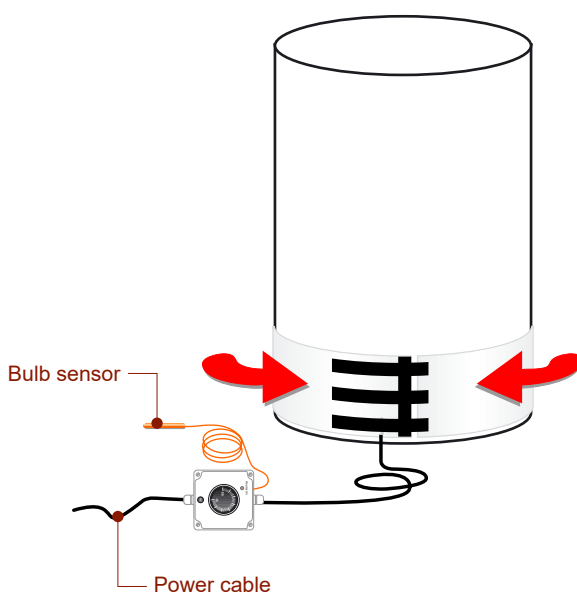
Installation of the drum-heaters

2.2. Determine the best place to put the blanket: It is recommended to put on the bottom of the drum or container.

The thermostat and the supply cable of the heating blanket should be at the bottom.

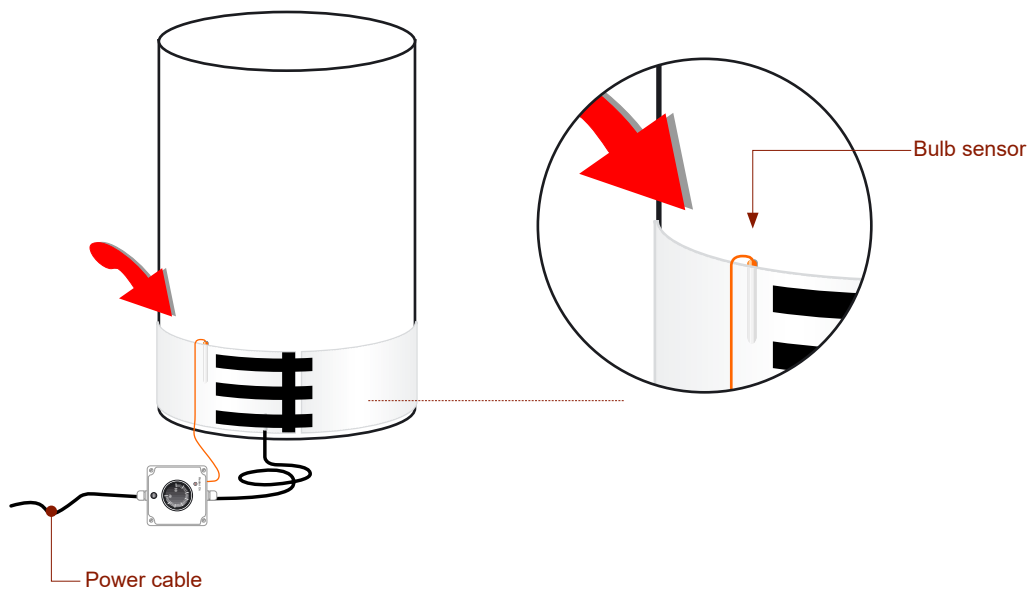


2.3. Place the heater around the body of the drum, tightly hugging the blanket with the velcro strips to get the proper tension.



Installation of the drum-heaters

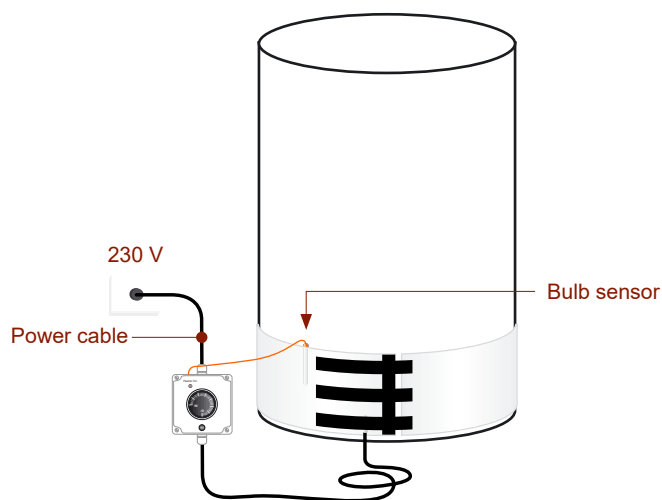
2.4. Place the bulb, carefully, between the heater and the surface of the drum.



Step 3

3.1. Connect the power cable to the mains.

The electrical installation where the heater will be connected, must be properly evaluated, and take into account power and tension of the blanket, to avoid failures or errors.



Thermostat

AT056

Thermostat incorporated as standard with our heating blankets:

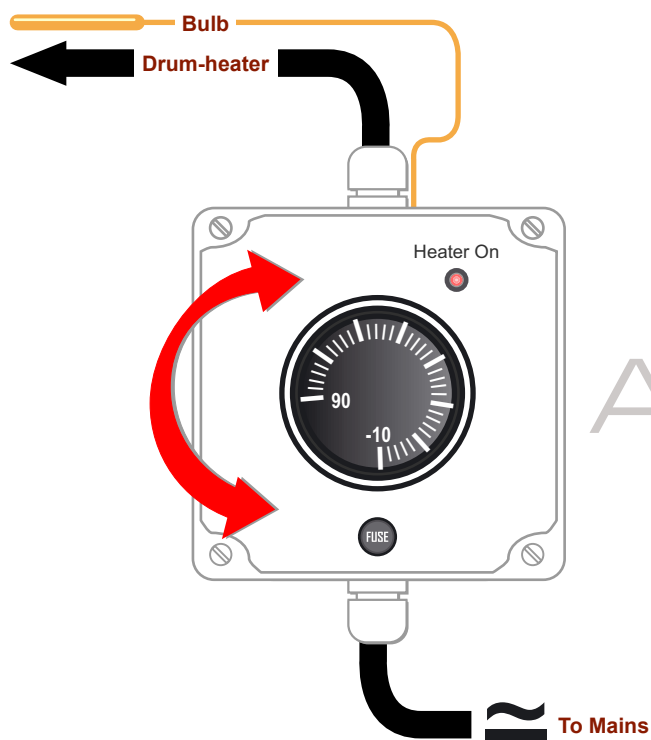
AT056



Economic analog thermostat:

- Temperature range: 0-90° C
- Voltage: 230 V
- Maximum load current: 15 A
- On/Off differential: 4° C
- Sensor: Bulb and capillary sensing - 1 metre

For heating blankets incorporating the adjustable analog thermostat **AT056**: Set the thermostat knob to the desired working temperature. The thermostat can be adjusted from 0 to 90° C.



AT056

BFV drum-heater | DPA programmable thermostat

Instalación / instrucciones de operación:

Installation instructions for the heating blankets of the **BFV** range, with programmable digital control device **DPA**.

It is important to read and understand this manual thoroughly before operating the drum heater.

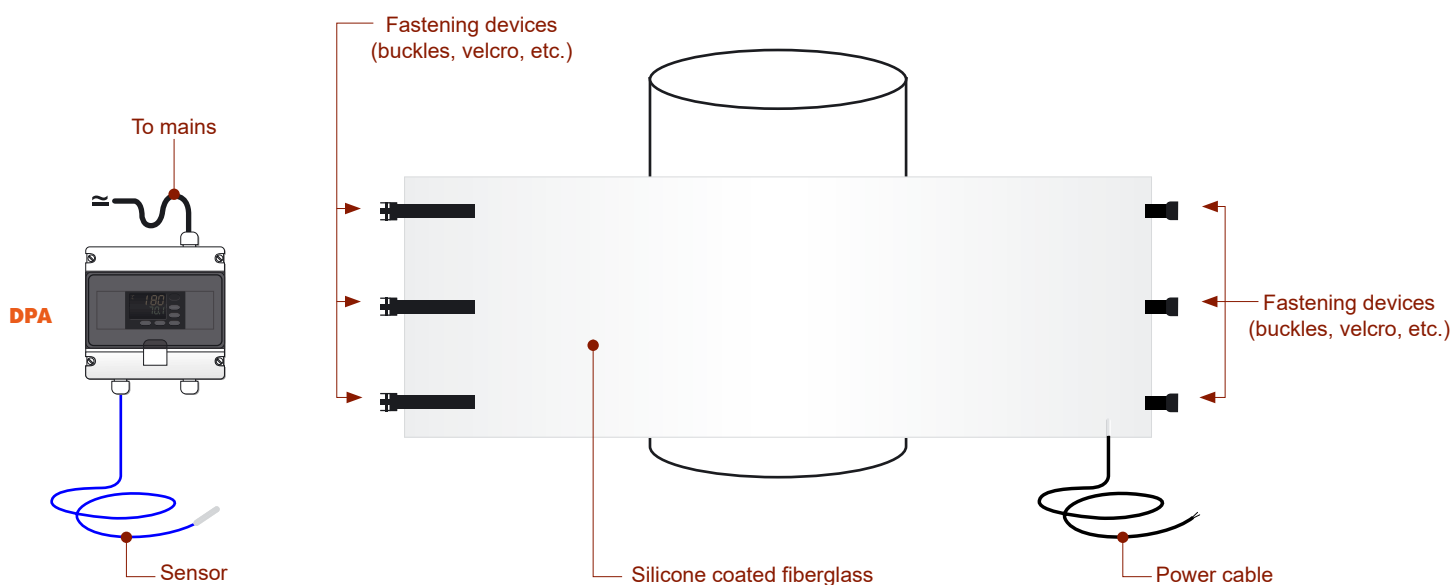
These instructions are for any type of heating blanket that includes a programmable thermostat of the **DPA** range

Step 1

- 1.1. Get the drum-heater out of the box.
- 1.2. Make a visual inspection of the heating blanket. We will not use the heater if it shows a torn or damaged.
- 1.3. The inspection and installation is preferably done by two people.

Step 2

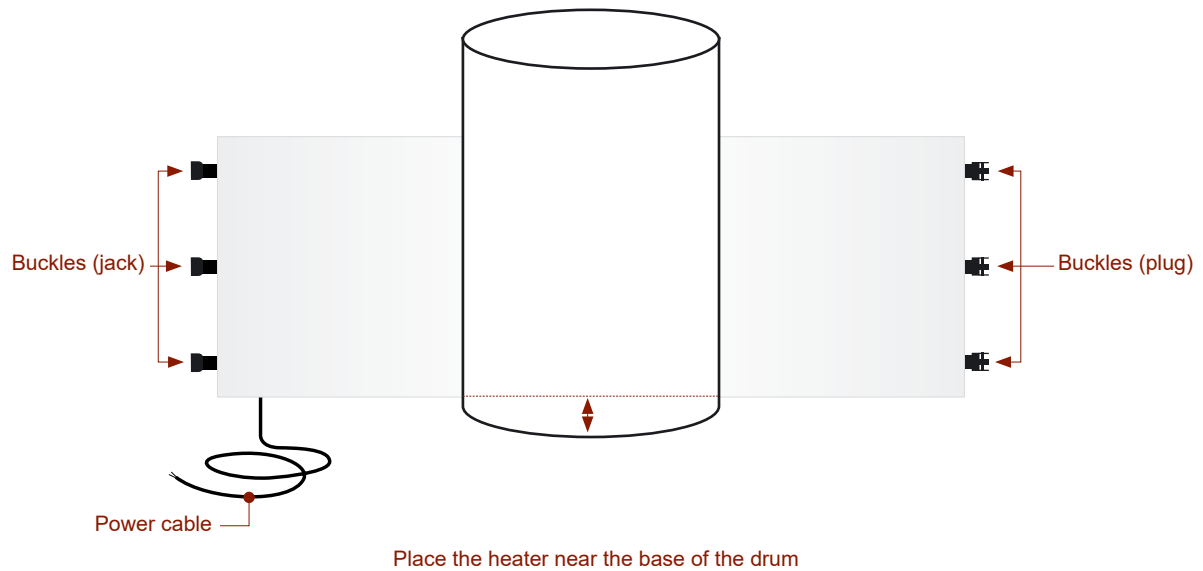
- 2.1. Place the heater on a clean and dry surface.



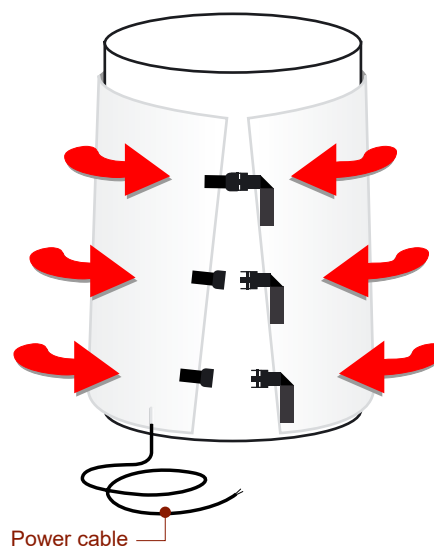
Installation of the drum-heaters

2.2. Determine the best place to put the blanket: It is recommended to put on the bottom of the drum or container.

The thermostat and the supply cable of the heating blanket should be at the bottom.

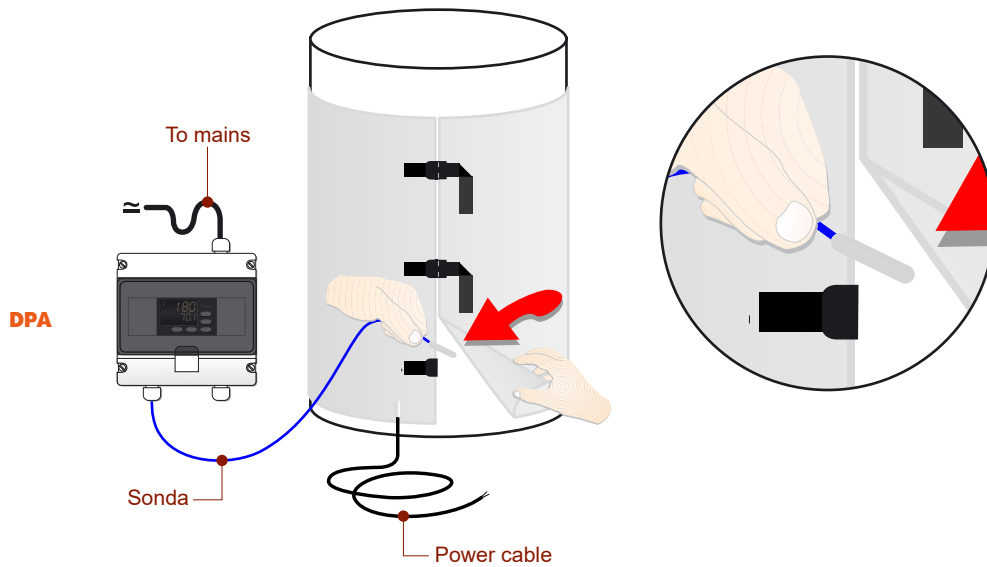


2.3. Place the heater around the body of the drum, tightly hugging the blanket with the fastening device: straps and buckles, velcro, springs, etc.

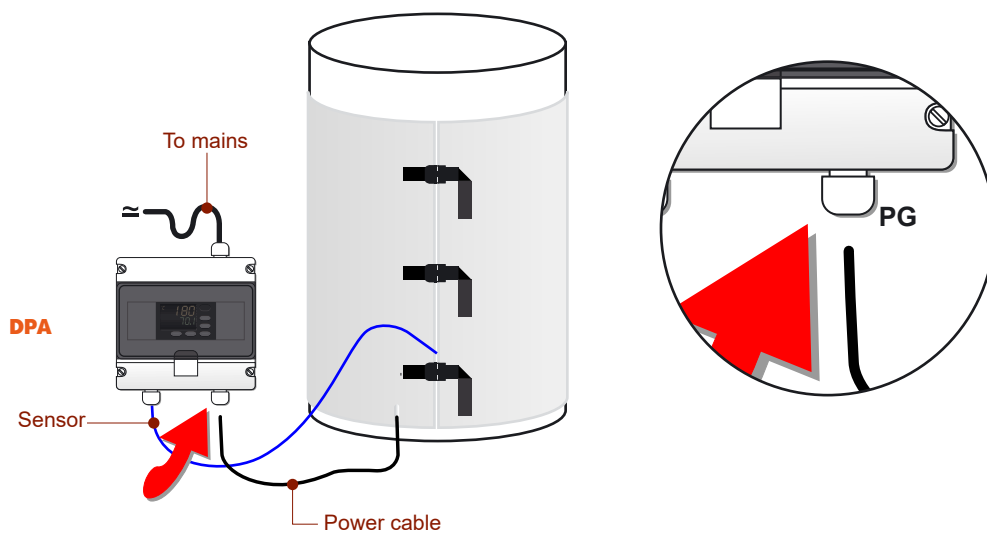


Installation of the drum-heaters

2.4. Place the sensor between the heating blanket and the surface of the drum, preferably between the first and second buckle.



2.5. Connect the power supply cable of the blanket to the thermostat through the specified PG.



Thermostat

DPA

Programmable digital thermostat incorporated to our heating blankets on demand:

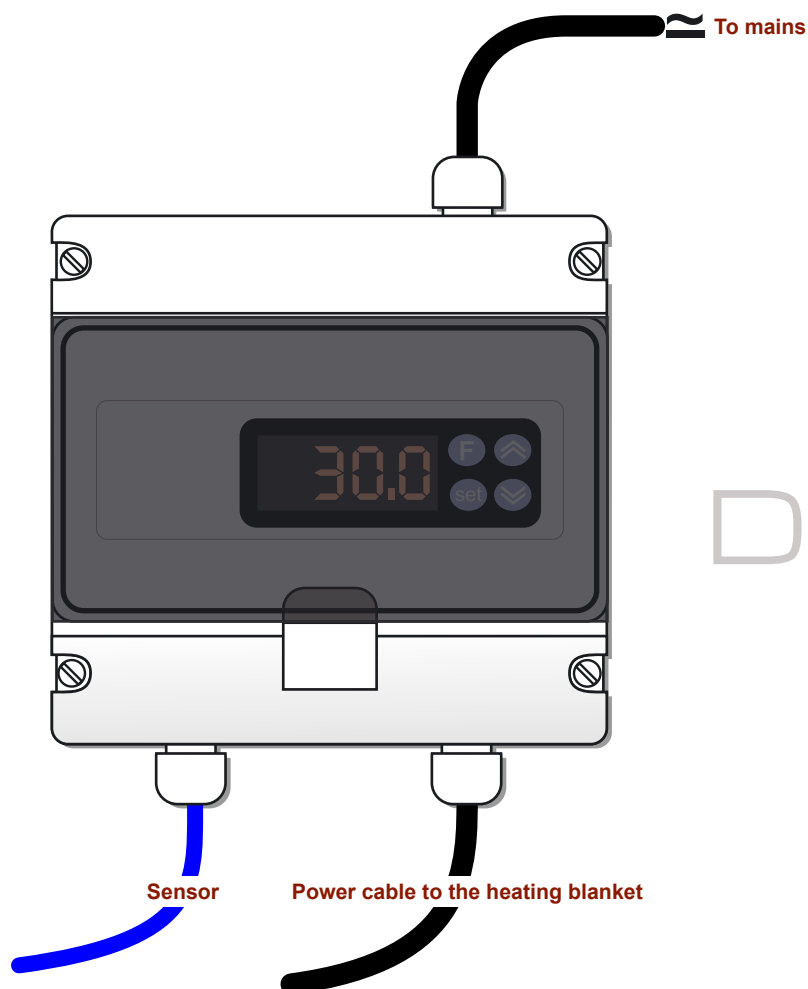
DPA



Programmable digital thermostat

- Control panels prepared to work outdoor, from -20° C to +140° C
- Case with transparent window: IP-65
- Connection entrances: PG-9
- Relay output: 25 A
- Allows different types of sensors: PTC, PT100, etc.
- Voltage: 230 V

If your heating blanket incorporates a programmable digital thermostat of the **DPA** range, you must follow the instructions in the attached manual.



Troubleshooting

Contact details

Please, read this manual before you contact **Elementos Calefactores AS**, or your local distributor.

This guide is designed to answer frequently asked questions. If you can not identify the problem or need additional assistance, please contact **Elementos Calefactores AS** through the following data::

Telf. 00 34 93 486 36 82

Fax: 00 34 93 486 38 14

E-mail: as@elementoscalefactores.com

Troubleshooting solutions guide

The tank heater does not heat:

1. Make sure the blanket is connected to the correct voltage supply. You will find technical specifications of the tank heater at the label attached to the cord or at the product data sheet.
2. Unplug the heating blanket:
 - For blankets with the analog thermostat **AT056**, turn the radio button at 0 °C, re-connect it and re-select the desired temperature work.
 - For blankets with the **DPA** digital thermostat, turn-off the thermostat, turn it on again, and check the set temperature SET POINT.
3. Check that the tank heater is connected to a magneto-thermic switch with enough amperage.
4. Verify the power supply cable of the heating blanket, is not damaged.

Remember that **BFV** heating jackets range, are designed for a specific use, giving it another utility may vary its efficiency and performance.



Heating blankets BFV-AT

Heating blankets for high-voltage cables

At **ECAS** we have developed along with experts in the field of the cable industry, a range of heating blankets for the management and straightening of high-voltage cables.

These heating blankets provide constant temperatures and can be adjusted up to 120° C, which improves the handling of high voltage cables, allowing them to straighten, bending and joining easily.



BFV-AT

More about BFV-AT

- For more information on the **BFV-AT** range, visit our website:

<https://www.elementoscalefactores.com/applications-en/heating-blanket-HV-cables.htm>

- You can learn the prices of these heating blankets, in our online store:

<https://www.electrich HeatingStore.com/heating-blanket-high-voltage-cables>

ELEMENTOS CALEFACTORES AS, S.L

C/ Zamora, 99 - 101, 5º planta 1ª

08018 Barcelona

Tel. 00 34 93 486 36 82 - Fax 00 34 93 486 38 14

Email: as@elementoscalefactores.com



• **Main website** •

www.elementoscalefactores.com

• **Drum and tank heaters** •

www.elecalas.com

• **Heating floor** •

www.sueloradiante.com

• **Online store** •

www.electriceatingstore.com

