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## **OWNER'S MANUAL**

### **HEATING BELT FOR BARRELS**

#### **TYPE 7507**

#### **1 - USE:**

Heating viscous products in cylindrical barrels, such as : organic acid, bitumen, pitch, wax, gelatine, tar, grease, pomade etc. up to 200°C.

#### **2 - DESCRIPTION:**

- Electrical resistance in a tubular sheathed element which is plated and soldered on a copper sheet (120 mm high) forming a temperature divider.
- Electrical connection using a 2-pin connector plug into an IP 537 protected box, delivered with an extension socket (Reference 9565-01).
- Control thermostat, range 50-200°C (optional).
- 2 handles for manoeuvring.
- Lever-operated fastening system with adjustable grip.

#### **3 - TECHNICAL SPECIFICATIONS:**

See our technical guide "Heating belt for barrels type 7507" for standardised equipment, or the specific drawing for special equipment.

#### **4 - USER PRECAUTIONS:**

- These belts are not suitable for explosive atmospheres, nor for heating liquids whose flash point is below 230°C.
- When switched off, only handle the belt using its bakelite handles (to prevent risks of burns and injuries caused to the operator and destruction of the belt).
- Do not connect or disconnect the mains supply lead when current is present.
- Check that :
  - the load voltage is that specified for the belt (standardised models : 230 V single phase in general),
  - the belt's grip matches the diameter of the barrel to be fitted,
  - the part of the barrel where the belt is positioned is cylindrical, not grooved, smooth and free from bumps or dents.

#### **5 - ASSEMBLY AND ELECTRICAL CONNECTION:**

##### **5-1 - ASSEMBLY :**

- Position the belt preferably on the lower, non-grooved part of the barrel (which is standing vertically) and facing the product to be heated so that the box's base connector socket faces downwards.
- Tighten the belt on the barrel using the gripping lever and finish it off with the butterfly nut so that the thermal contact is at its optimum, without too much strain.

- Up to 3 belts per barrel can be fitted (depending on the power required : the heating time depends on the calorific loss, the specific heat of the heated product and its latent heat if there is a change in its state).

## 5-2 - ELECTRICAL CONNECTION :

- Connect the mains supply lead (with power off) to 2 conductors (+ earth), of appropriate width, to the socket supplied with the belt.
- Position the socket before switching the installation on.
- Take all necessary precautions to prevent the mains supply lead coming into contact with the barrel.

## 6 - COMMISSIONING PROCEDURE:

- Before switching on, check that the level of the product in the barrel is higher than the position of the belt.
- Switch the belt on having first checked that all operating conditions are met.  
Adjust the thermostat set point, if applicable : check first that the heating stops and restarts when the knob is moved; the pilot light, to the left of the "on/off" switch, comes on during heating.

NOTE : Information on the thermostat's vernier does not give the temperature setting of the heated product. This depends on the conditions of use and the physical and chemical characteristics of the product. Keep adjusting the set point until the required temperature is achieved, measuring it with a thermometer.

It is up to the user to choose the stabilisation temperature. As boiling point is easily achieved, every precaution must be taken (atmospheric pressure) to prevent the barrel being put under pressure.

- Leave the belt to cool for a few minutes before moving it. The use of heat-proof gloves is strongly recommended.

## 7 - MAINTENANCE:

Each time it is fitted to a barrel :

- Check that it and, in particular, the mains supply lead are in good condition.
- If necessary clean the part which touches the barrel.

After 50 hours service and annually: check that all connections are tight and in place.

If the plate is not used for a long time and is left in an atmosphere where the moisture content is not controlled: set the heating to come on at 50°C for 4 hours minimum in order to dry out the unit and remove any damp that may have been absorbed. Immediately after this period of heating, measure the isolation in relation to the earth : the value measured at 500 volts D.C. must be more than one megohm.

## 8 - GUARANTEE:

Our guarantee complies with inter-union electrical construction agreements and our general conditions of sale.

We cannot be held liable for any damage caused by :

- use of the appliance over 10% above the design rating,
- lack of maintenance, impact, rough handling or inexperience on the part of the user,
- non-compliance with these instructions, professional regulations and legislation.