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## **OWNER'S MANUAL**

### **THERMOSTATIC CABINET HEATERS**

#### **TYPES 6108**

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

Heating of electric cabinets to prevent them from freezing or keep them dry.

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

These cabinet heaters consist of :

- 1 or 2 resistors with fins types 6004,
- 2 attaching feet,
- one bulb and capillary thermostat (thermometer well) adjustable in a range of 0/120°C,
- one junction box in an IP 555 degree protected case of 6/6 polyamide.

#### **3 - UTILIZATION PRECAUTIONS :**

- Check that :
  - the power supply voltage used is as mentioned on the nameplate of the heater,
  - the cabinet to be equipped includes a large enough space to accommodate the heater which must be placed horizontally and at the bottom,
  - keep it away from components that are sensitive to heat (50 mm minimum),
  - the installed power is sufficient : for instance, use our note for "determining power to be installed" in our sales catalogue (in the chapter "air conditioning and cabinet heating") or our "CLIMAT" computer software (diskette available in PC or MAC version, free of charge by simple request from our sales department).
- Take care not to burn yourself on the fins of the heater when it is energized.
- It is strongly advisable to control the cabinet heater using an ambient thermostat.

#### **4 - ASSEMBLY AND CONNECTION :**

##### **4 - 1 - ASSEMBLY :**

- It is mandatory to assemble the heater horizontally at the bottom of the cabinet and at least 50 mm from equipment sensitive to heat. In large capacity cabinets, if necessary, install several heaters setting them out suitably.
- Attach the feet of the heater to the bottom of the cabinet using 6 mm diameter screws.

##### **4 - 2 - ELECTRICAL CONNECTION :**

- Take out the thermostat knob located on the heater box cover by pulling it in line with its axis.
- Loosen the two attaching screws and remove the cover from the heater box.
- Connect the power supply cable to the connecting block making sure to connect the yellow/green ground wire to the terminal to which the heater ground yellow/green wire is connected.
- Generally, the power supply cable of the heater is connected to the terminal block of the electrical cabinet.
- Check that all the connections are tight before closing the heater box and put the thermostat knob back in place.

## 5 - **COMMISSIONING PROCEDURE** :

Set the heater regulation thermostat setpoint to a value slightly above that desired in the cabinet (indeed, the thermostat is partially influenced by the radiation of one or 2 resistors with their fins).

- NOTE :
- : The information on the thermostat dial is not accurate enough to be certain of the accuracy of the temperature inside the cabinet. Operate by successive adjustments of the setpoint until the desired temperature is obtained and measure it with a thermometer for instance.
  - : To obtain a more accurate temperature inside the cabinet, it is preferable to control the cabinet heater with an ambient temperature thermostat to be connected in series with the heater thermostat which should then be set to a temperature setpoint approximately 30°C higher than that of the ambient thermostat.

## 5 - **MAINTENANCE** :

### 5 - 1 - After 50 hours operation :

Check that all the connections are tight.

### 5 - 2 - Each year :

- Same operation as § 5-1.
- Check that the thermostat fins and well are not dirty. Clean them if necessary.

### 5 - 3 - If the heater remains idle for long periods of time and is de-energized in an environment where the relative humidity is not controlled :

Allow at least 4 hours warming to ensure general heating of the system and expel any humidity that has been absorbed. Immediately after this heating period, measure the insulation with respect to ground : the value measured at 500 V DC should be greater than one megohm.

## 6 - **GUARANTEE** :

Our guarantee is in conformity with the inter-union agreements of the Electrical Construction industry and with our general conditions of sale.

Any deterioration resulting from :

- use at more than 10% of the scheduled rated voltage,
- wear provoked by a lack of servicing, impact, clumsy or inexperienced users,
- failure to comply with this manual, the state-of-the-art rules and the legislation,
- corrosion or fouling phenomena,

cannot be binding upon our responsibility.