



Space Heater / Anti – Condensation Tool

Space Heater / Anti – Condensation Tool is strip shape flexible heater having protective fiber glass sleeve on it. It is mainly used in Electric Motors & Generators. It is necessary to evaporate condensed water on windings of Electric Motors & Generators, Space Heater / Anti-Condensation Tool is used for this purpose. This prevent the failure of Electric Motors & Generators windings. Normally these heaters are tied on the winding overhang before impregnation and hence form integral part of the winding. This achieves maximum heat transfer.

Motors, Generators & Alternators which operate in high humidity, cold temperature climates, tropical condition require these type of heaters. In case of extreme temperature variations also a space heater / anti – condensation tool should be fitted.

The water condensation on winding occurs only when the electric motor is turned off and enclosure temperature drops rapidly to below the dew point or suddenly motor is turned on in damp or wet condition, this results in winding failure.

The space heater / anti – condensation tool prevents the condensation of water inside the motor body when motor is not running.

Use of space heater / anti – condensation tool at the design stage can save the expense of costly rewinds and down time which is more precious.

The space heater / anti – condensation tool shall not be energized when the Motor or Generators is in running condition

Heater length should be taken such that it covers at least 75 % of the winding overhang circumference. If heater length is more than circumference, it is very important to see that it does not overlap. The next turn should be separated from the original turn by at least 5 mm to avoid short circuit between two ends.

Applications :-

Use of Space Heaters is recommended for

1. Motors operating in high and very high humidity conditions.
2. Electric motors in tropical environment.
3. Well Pumps.
4. Shipboard and marine equipment.
5. Coastal area Motors & Generators.

Available for 110 V and 220 V supply voltages for 380 V and 415 V it is usual to connect 2 x 220V units in series. Standard Sizes available.

| Heater Length | Voltage | Watt | Lead Length |
|---------------|---------|------|-------------|
| 203 | 110 | 8 | 500 mm |
| 203 | 220 | 8 | 500 mm |
| 305 | 110 | 22 | 500 mm |
| 305 | 220 | 25 | 500 mm |
| 432 | 110 | 27 | 500 mm |
| 432 | 220 | 26 | 500 mm |
| 686 | 110 | 21 | 500 mm |
| 686 | 220 | 21 | 500 mm |
| 686 | 110 | 40 | 500 mm |
| 686 | 220 | 40 | 500 mm |
| 762 | 110 | 25 | 500 mm |
| 762 | 220 | 26 | 500 mm |
| 1016 | 110 | 39 | 500 mm |
| 1016 | 220 | 42 | 500 mm |
| 1067 | 110 | 50 | 500 mm |
| 1067 | 220 | 54 | 500 mm |
| 1473 | 110 | 67 | 500 mm |
| 1473 | 220 | 65 | 500 mm |
| 1702 | 110 | 103 | 500 mm |
| 1702 | 220 | 99 | 500 mm |

Lead length can be provided as per customers requirement

LOW COST PROTECTION OF MOTORS AGAINST CONDENSATION. SAVE EXPENSE OF COSTLY REWINDS.

Global Supplier of following products :

PTC Thermistors

Thermistor Protection Relays,

Pt-100 RTDs

Pt-100 BTD,

KTY sensors

Thermal Switches (TOP)

ISO 9001 : 2008 Certified Company



**INSTA CONTROL PVT. LTD.
INDIA**

No. 1 - 4, "G" Block, Vishnu Malati Industrial Estate, Shivane,
Pune 411 023. Tel : 2529 2112 , 2529 0059 Fax : 0091-20-25292113
E-mail : thermo5@vsnl.com; Website : www. instacontrols.net