

Motor Fans & Accessories

Anti-Condensate Heaters

APPLICATIONS

Anti - Condensation are particularly valuable in motors that operate in damp or wet conditions e.g. pumps, dockside cranes, shipboard and marine equipment, offshore generators and tropical environments. They offer a low cost, easily fitted method of maintaining the motor above "Dew Point", reducing the possibility of motor burn-outs caused by insulation breakdown due to moisture.

The range covers motor heating tapes for operation on 220 - 240 volts, however some 110 volts heaters are stocked.

GENERAL INFORMATION

The heaters are affixed to the head winding of the motor, by tying it into position; it is recommended that the heater be secured to the motor windings using narrow gauge cotton tape fixings (not cords). This will prevent possible damage to the element wire. The winding, including the heaters is then varnished so that the heater becomes an integral part of the motor winding. Varnishing or impregnation waterproofs the heaters and gives a good thermal contact to ensure maximum heat transfer into the windings.

In principle, a heater is fitted to each end of the windings, as this will provide overall balanced heat to the windings. (Note: Some motor manufacturers use only one heater. In this case the new tape should be of the same size and located in the same position as the original heater.

The heater should be disconnected whilst the motor is energised as the heat generated by the motor, in operation, will keep the temperature above "Dew point".

The usual means of achieving this is to fit a change-over contact on the starter relay, which should be possible in most instances.

We would stress that it is not good practice to overlap the heater since it can cause hotspots and produce a rapid aging effect.

TYPICAL VALUES

Data below is for 220 Volt Heater Tapes

Dielectric Strength 2000 Volts (r.m.s.) Dry.

For 400 / 440 V supply it is usual to connect 2 x 240V units in series.

TYPE	mm	ins.	Watts	TYPE	mm	ins.	Watts
00b	203	8	8	4b	762	30	26
0b	305	12	25	5b	1016	40	42
1b	432	17	26	6b	1067	42	54
2b	686	27	21	7b	1473	58	65
3b	686	27	40	8b	1702	67	99

Notes: Non-standard sizes, ratings and Hazardous area heater tapes may be available on special order. (Please contact your nearest OBA office).