

TYPE "n" ANTI-CONDENSATION HEATERS FOR ELECTRIC MOTORS & GENERATORS

**TYPE
ACH/n**
DATA SHEET 05/02

The ACH/n range of electric heating tapes provides low cost protection against condensation within rotating electrical equipment. Typical applications would be electric motors, generators and alternators which operate in damp or wet conditions. Examples would include off shore, shipboard and marine equipment, dockside cranes, well pumps and all equipment operating in a tropical environment. Specifying anti-condensation heaters at the design stage can save the expense of costly rewinds and down time.

FITTING RECOMMENDATIONS

The heating unit is designed for the inclusion in the impregnation process.

A motor heater is usually sized to fit around the stator pack, covering at least 70% of the circumference.

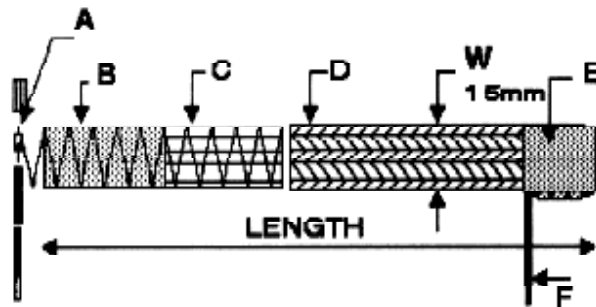
When a heater is selected that is longer than the circumference care must be taken to keep the overlap separated from the original turn by 5mm minimum to avoid hot spots.

A separate terminal block is usually provided for the heater units. A change-over contact wired to bring in the heater when the motor is de-energized must be provided on the starter.

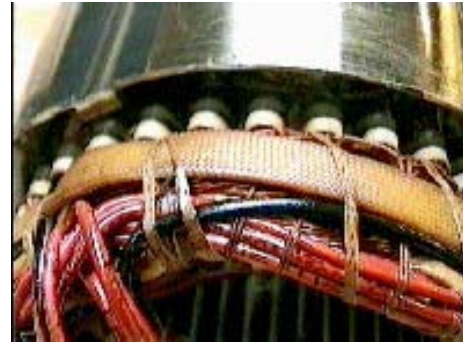
RETRO-FITTING OF HEATERS

By then OEM or a Rewinder on a stock motor:

The heater should be bound on the windings, as described page 2/3, then heavily coated with varnish and allowed to



- A High quality dip soldered joint.
- B 80/20 Ni Cr heating element. Glass fibre tape carrier.
- C Polyester backed adhesive tape insulation.
- D Glass fibre braid insulation.
- E Acrylic adhesive backed glass fibre tape, insulation and cold leads reinforcement.
- F 500mm ColdLeads. 19/0.15 ETFE (Tefzel) insulated equipment wire.



cure and then a second coat applied, to ensure that the heater and windings form a homogenous mass to provide good thermal conductivity.

By a Rewinder:


As part of the rewind process, where the heater will be fully impregnated with the windings.

ACH/n Range				
ACH Ref	Length	Ins mm	Volts	Watts
0a	12	305	110	9
0b	12	305	240	9
1a	17	432	110	12
1b	17	432	240	12
2a	27	686	110	20
2b	27	686	240	20
4a	30	762	110	22
4b	30	762	240	22
5a	40	1016	110	29
5b	40	1016	240	29
6a	42	1067	110	30
6b	42	1067	240	30
7a	58	1473	110	42
7b	58	1473	240	42
8a	67	1702	110	48
8b	67	1702	240	48

APPROVALS:

BASEEFA Component Approval No. Ex 94Y4457U
Code: Ex N II
BASEEFA Component Approval No. Ex 98Y4345U
to EN 50021: 1998 Code: EEx nA II

ATEX Certificate No. BAS02ATEX3153U

The component is coded:  **II 3G EEx nA II**

RTL

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