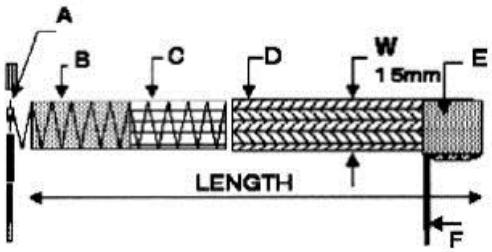
ANTI-CONDENSATION HEATER
FOR ELECTRIC MOTORS
AND GENERATORS

The ACHIF 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

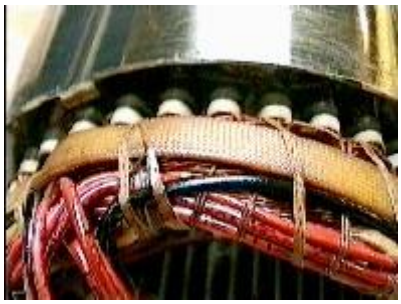
The heating unit is designed for inclusion in the impregnation process. The OEM or the Rewinder fits the selected ACH heating tape to the end turns of the motor stator pack by lacing or by use of suitable adhesive insulating tape applied longitudinally over the full length and width of the heater prior to varnish impregnation. If lacing is employed care must be taken to allow for the shrinkage of the lacing material during 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 5 mm minimum to avoid hot spots.



A. High quality dip soldered joint.
B. 80/20 Ni Cr or 56/44 heating element. Glass fibre tape carrier.
C. Polyester backed adhesive tape, thermosetting adhesive.
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.

ACH/F



One or more heater units are fitted to each end of the motor as required to apply the desired total electrical energy.

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.

Total power is not normally critical and standard ACH units may be fitted on industrial motors over a wide range of supply voltages.

ACH/F Standard Range					
ACH Ref	Length		Volts	Watts	Frame Size
	in	mm			
00a	8	203	110	8	80
00b	8	203	220	8	
0a	12	305	110	22	90
0b	12	305	220	25	
1a	17	432	110	27	100
1b	17	432	220	26	
2a	27	686	110	21	112
2b	27	686	220	21	
3a	27	686	110	40	132 &
3b	27	686	220	40	160
4a	30	762	110	25	180&
4b	30	762	220	26	200
5a	40	1016	110	39	225&
5b	40	1016	220	42	250
6a	42	1067	110	50	280
6b	42	1067	220	54	
7a	58	1473	110	67	280
7b	58	1473	220	65	
8a	67	1702	110	103	315
8b	67	1702	220	99	