

What are Anti Condensation Heaters (ACH)?

Anti Condensation Heaters (or ACH) are heating devices used to protect electric motors against condensation when motors are installed in damp or wet conditions or conditions where condensation may occur. ACH must be energised when the motor is not running and de-energised when the motor is running.

ACH are not fitted as standard, but are available as a additional retro fit option by request.

A separate terminal block is usually provided for the heater connections.

Usually the rated voltage is either 110Vac or 230Vac.

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

220V Heater bands (wire colour orange)

| Motor Frame Size | Type | Length (mm) | Watts | Resistance (min-max ?) |
|------------------|------|-------------|-------|------------------------|
| 80 | 00b | 203 | 8 | 5200-6655 |
| 90 | 0b | 305 | 25 | 1670-2110 |
| 100 | 1b | 432 | 26 | 1615-2008 |
| 112 | 2b | 686 | 21 | 2059-2555 |
| 132-160 | 3b | 686 | 40 | 1110-1299 |
| 180-200 | 4b | 762 | 26 | 1671-1972 |
| 225-250 | 5b | 1016 | 42 | 1075-1256 |
| 280 | 7b | 1473 | 65 | 710-792 |
| 315 | 8b | 1702 | 99 | 444-520 |

110V Heater bands (wire colour black)

| Motor Frame Size | Type | Length (mm) | Watts | Resistance (min-max ?) |
|------------------|------|-------------|-------|------------------------|
|------------------|------|-------------|-------|------------------------|

| | | | | |
|---------|-----|------|-----|-----------|
| 80 | 00a | 203 | 8 | 1360-1663 |
| 90 | 0a | 305 | 22 | 478-582 |
| 100 | 1a | 432 | 27 | 407-488 |
| 112 | 2a | 686 | 21 | 530-621 |
| 132-160 | 3a | 686 | 40 | 275-325 |
| 180-200 | 4a | 762 | 25 | 455-505 |
| 225-250 | 5a | 1016 | 39 | 284-336 |
| 280 | 7a | 1473 | 67 | 172-192 |
| 315 | 8a | 1702 | 103 | 109-122 |

For motors not having the provision of space heaters, 24 V dc supply can be applied between any two terminals.