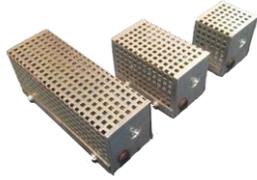


# LPC Anti-Condensation Heaters (ACH) Technical Information



## Style ACH – Low Wattage Anti-Condensation Heaters

### Introduction

The range of LPC Anti-Condensation Heaters are available from 20 to 120 Watts and have been developed for use in switch and control gear cabinets where a low wattage heater is required to eliminate humidity. They are RoHS Compliant.

### Ordering Procedure

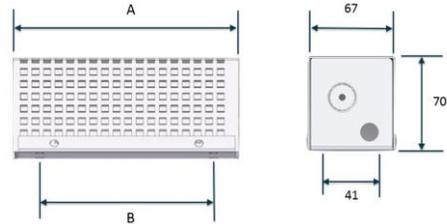
**Fixed Heaters** – Specify: Type, Watts, Voltage.

E.g. ACH35-100W-230V

### General Notes

#### Standard Rating & Dimensions

Type	A	B	Standard Power	Standard Voltages
ACH38	65	19	20,30	110, 230
ACH37	121	70	20, 40, 60, 80	110, 230
ACH35	191	146	80, 100, 120	110, 230



#### Typical Temperature rises above ambient (°C)

Type	Power (Watts)	Heating Element (°C)	Enclosure (°C)	% of Rated Power
ACH38	20	160	60	44
ACH38	30	208	90	67
ACH37	20	85	45	22
ACH37	40	155	65	44
ACH37	60	209	93	67
ACH37	80	265	120	89
ACH35	80	192	71	53
ACH35	100	207	85	67
ACH35	120	246	99	80

#### Mounting & Monitoring

To ensure the best results, the heaters should be mounted on the back plate of the cubicle with the resistor horizontal, and the terminals at the bottom. This will ensure that there is a free flow of air over the resistor. If it is not possible to mount the heater this way, or the air flow is severely restricted, it may be necessary to use heat restricting cable to connect the heaters. We recommend the use of a separate thermostat fitted within the cubicle but away from direct radiation from the heater.

#### Product Details

The Anti-Condensation Heaters contain an LPC vitreous enamelled resistor mounted within a perforated sheet steel case. The cover is retained by only two screws so that it can easily be removed for wiring. The heating element is held in place by a tie rod in conjunction with a centering device pressed into the end plate. There is a cable entry grommet at each end and the connections are to terminals on the element end bands via M4 screws or 6.3mm push on receptacles. Four 6mm Ø fixing holes are arranged in the base of the enclosure.

#### Guide to Selection and Use of Anti-Condensation Heaters

The power rating required to prevent the condensation in a given cubicle depends on a number of factors, including temperature and relative humidity. However as a general rule 10-12 Watts per square meter of panel surface area may be used. The nominal rating specified will be ±5%. The standard range of heaters are available in 110V and 230V AC although special power and voltages are available on request.