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Important safety information regarding use of fans with motor running capacitors

Dear Konstantin

The revision of standard EN60335-1:2002 may require a review of the design of the product into which our fan is incorporated. The change may affect safety aspects of your design that we would like to bring to your attention.

EN60335-1:2002 is titled Household and similar electrical appliances – safety – Part 1: General requirements. It is a standard we consider when designing our motors and fans and is commonly used by many of our clients when designing their product. The new edition 5 came into effect on 21st November and introduces a requirement to consider the hazard that may result from a motor capacitor failure.

Our fan part numbers listed below use motor running capacitors with SO class of safety protection. Clause 24.8 requires the potential hazard of a capacitor failure to be considered. SO class of capacitors will require either a metal enclosure surrounding the capacitor, or to ensure that non-metallic parts that do not meet the described flammability requirements are outside a 50 mm zone.

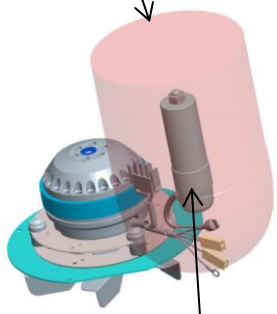
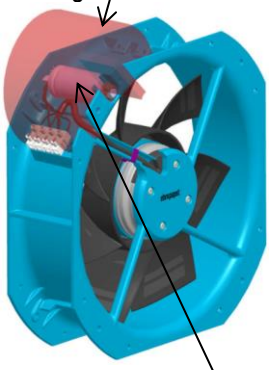
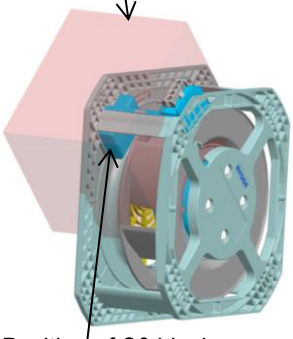
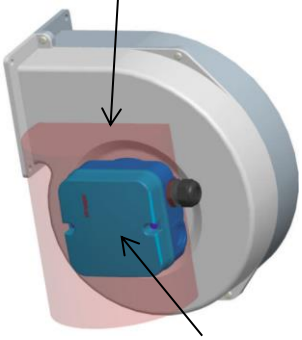
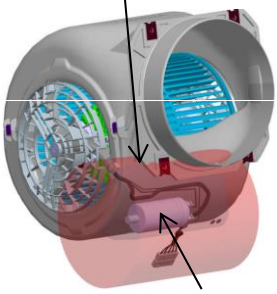
If the part listed below is of a design where the capacitor is supplied by us enclosed in a plastic enclosure we can confirm that this enclosure meets the required needle test and flammability requirements. Whilst the capacitor is enclosed inside we can advise that the 50 mm zone from the surface of the capacitor is still a requirement with respect to any non-metallic material that does not meet the flammability requirements. To assist you we have included in this letter examples of a number of our fans where we show the proposed 50 mm zone.

We note that we supply you with the following part numbers that are fitted with an SO class of capacitor.

- G2E120-AR77-A6
- G2E140-AI28-A5
- W2E200-HH38-01

Yours sincerely

Geoff Lockwood
Technical Director

Affected area with a capacitor on the connection cable  Position of S0 capacitors directly on the connection cable	Affected area with a metal housing  Position of S0 capacitor directly above wall ring	Affected area with a plastic housing  Position of S0 block capacitor directly below cover	Affected area with a plastic terminal box  Position of S0 capacitor directly under terminal box lid
Affected area with a plastic housing  Position of S0 capacitor directly above wall ring			