



More safety for plants using natural refrigerants

GreenTech EC fans now also available for Ex-areas

Whenever natural and inflammable refrigerants are used, the protection provisions for hazardous areas apply as of a filling capacity of 50g.

In order to provide the benefits of energy-efficient EC fans for those applications, ebmpapst Mulfingen has now successfully developed an energy-saving GreenTech EC motor for use in Ex-zones 1 and 2.

The performance characteristics allow this new motor to be used in axial fans with diameters ranging from 630 to 990 mm, and in centrifugal fans of size 400 to 710 mm. Clearly, this opens new horizons as a suitable solution can now be found for practically every application in refrigeration and air-conditioning.

The motor is classified “II 2 G Ex d e iB T3 Gb” and thus complies with the provisions for hazardous areas, and any fan equipped with this motor may also qualify for other, less hazardous areas, e.g. for ventilation of Zone 1 areas where occasional petrol fumes are to be expected.

In line with standard motors in GreenTech EC technology, this new ex-protected variant by ebmpapst has its power electronics completely integrated in the motor. The proven external-rotor design is of special advantage, as the axial blades or centrifugal impellers can be mounted directly on the rotor, i.e. directly on the “housing” of the motor. This results in compact dimensions and allows for very simple cooling; the motor is instantly cooled through the attached fan’s air delivery.

The electrical interface provides two analogous inputs (0-10 V or 4-20 mA), a 0-10 V output for the speed signal and a voltage supply of +10 V and +24 V. The materials used for the fan blades and impellers comply with the provisions for hazardous areas.

Further information about GreenTech EC technology can be found at http://www.ebmpapst.com.au/en/ec_technology/ec-technology.html

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Illustration 1:

Complete axial fan approved for use in hazardous areas classified under Zone 1 and 2. The wall ring made of sheet metal plus the HyBlade® impeller made of special high-performance plastic constitute a non-flammable material combination.

About ebm-papst

We are the leading global manufacturer and supplier of fans, blowers and air moving products and are the leader in energy-saving EC technology. We provide a unique range of air movement or specialist drives products. Our motor technology, engineering and logistics expertise will add value to your business.

Find out more about us on www.ebmpapst.com.au