



BZe Bifurcated fans

FEATURES

Ventilation applications in severe or extreme operating conditions, will require the motor to be protected from the airstream of the ventilation system. These applications require bifurcation of motor from its impeller, thereby preventing any damage caused by potentially hazardous air passing over the fan motor, such as oil particles that may combust. Our commitment to the ventilation industry led us to design, pioneer and manufacture OST BZe bifurcated fans here in Singapore more than 10 years ago. Our unique fan design, consists of a chamber fully enclosing the fan motor, while the support members also serve as motor ventilating vanes

ADVANTAGES

The resulting advantages are :

- *More airflow as well as more uniform pattern
- *Motor bearing load is reduced
- *Low noise level
- *Efficient fan motor cooling
- *Compact and effective

MOTOR

The fan is driven by a totally enclosed fan-cooled (TEFC), squirrel-cage induction motor, which are flange-mounted and rated for continuous running. As standard, all motors have Class F insulation and an IP54 enclosure. Long-life grease with precision bearings are installed as standard to prevent premature motor failure under constant heavy load conditions. Other specifications including multi-speed, high temperature and explosion-proof motors, which are available upon request at additional costs.

FAN UNIT

The modular impellers with fully adjustable pitch blades, can be customised to suit a wide spectrum of applications. The hub and the imeller blades are die-casted alloy which are further heat treated to increase tensile strength.. The impeller as a whole is statically and dynamically balanced to ensure a vibration free operation, effectively extending bearing life.

WE ARE:

DESIGNERS with form and function in mind, and excel in efficiency

MANUFACTURERS offering a high standard of quality, utilising economical premium materials

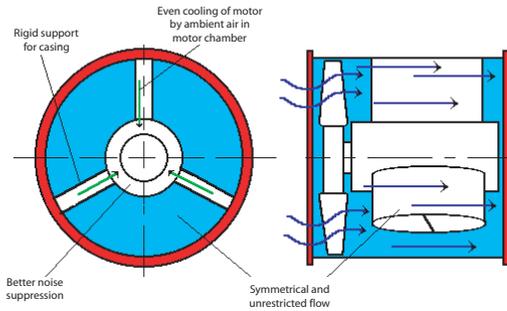
TESTERS with fully accredited superior in-house facilities to attain high levels of accuracy and an aptitude for investigative knowledge

With 20 years of experience behind us, we pride ourselves in technology with service and support

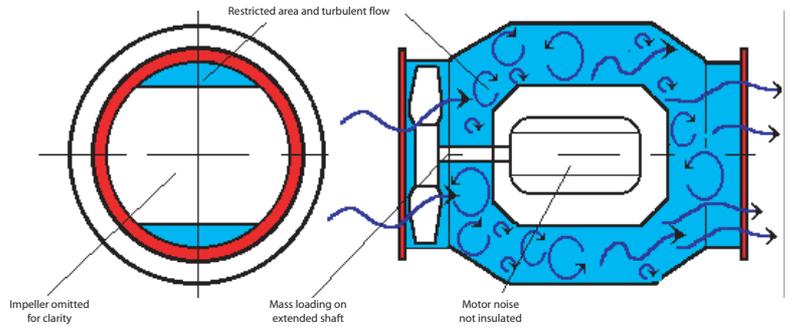
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FAN DESIGN

OST BZe Bifurcated fan design



Conventional bifurcated fan design



DESIGN FEATURE

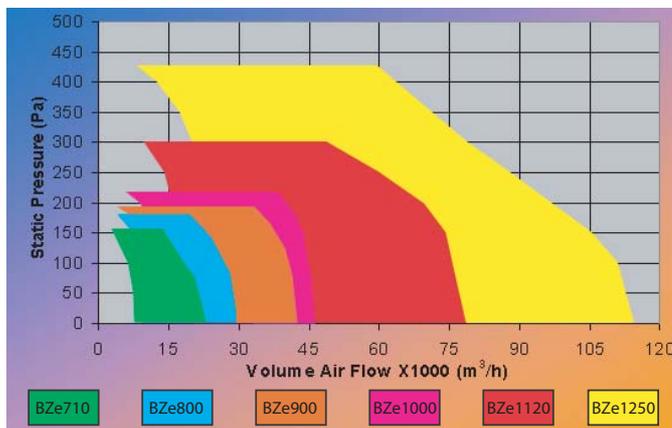
The motor is housed inside a fully enclosed chamber, within the fan casing. The chamber is centred in the fan casing with supports, which also acts as guide vanes. The unobstrusive guide vanes allows a larger cross-sectional area of air flow, as compared to the conventional designs. Furthermore, the symmetrically positioned vanes produces a more even air flow pattern, and also permits moisture drainage. Moreover, this design offers a more rigid casing construction and more effective motor cooling.



PERFORMANCE

The BZe fan modular system would complement your application. When selected appropriately, it is capable of handling air volumes from 7200CMH to 165,600CMH, and may attain a static pressure of up to 750Pa. The quick selection chart and technical data table below, outlines the performance range of BZe series fans with 6-pole or 4-pole motors. A more comprehensive performance curve and technical data will be available upon your final selection.

BZe 6 POLE MOTOR



BZe 4 POLE MOTOR

