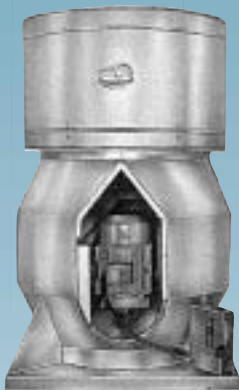




EVASÉ ROOF FAN



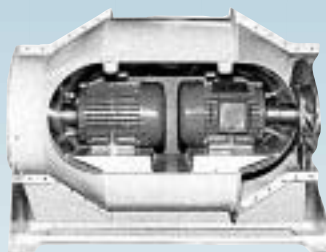
EVASÉ BISECTED



BISECTED ROOF



BISECTED



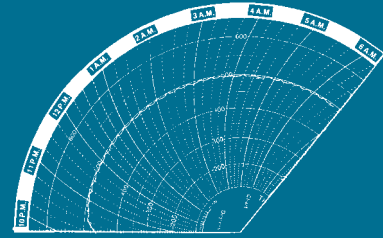
TWO STAGE BISECTED

Bisected Fans

The Strobic Air Family of
Modular Bisected Duct Fans

Independent Testing Laboratory Certification for Bisected Emergency Smoke Exhaust Fans

A Strobic bisected upblast roof fan completed a continuous, eight-hour 500°F test performed by the Engineering and Test Division of Dayton T. Brown, Inc., Bohemia, NY. The test was conducted on a 24" fan with an adjustable pitch aluminum impeller. Test procedures included connecting the fan inlet to a gas fired hot air furnace with a steel duct, while the fan outlet was connected to a similar duct which returned hot air to the furnace.



Standard Specification "Bisected, TW" Fans

1. Fan shall be direct drive, Arrangement 4, with motor out of airstream. It shall be suitable, when required, for 950°F (510°C) continuous duty.
2. Fan housing shall be continuously welded, hot rolled steel. Material thickness shall be a minimum of 12 gauge. All welding shall be done by ASME Code IX welders. For high moisture content, caustic applications the use of 304 stainless steel, 316 stainless steel, monel, novar, epoxy coatings, phenolic epoxy coatings, polyurethane or high temperature (aluminum based) paint shall be used. See schedule for details.
3. The impeller shall be airfoil shaped, with full chamber and twist, to maximize fan efficiency. Fans to 500°F shall have high strength aluminum alloy, manual adjustable pitch impellers. (Life Safety Certification of 500°F performance for eight hours continuous duty is available on request.) Impellers to 750°F shall be continuously welded hot rolled steel. Fans to 950°F shall be continuously welded 304 stainless steel. All custom, caustic impellers shall be made with materials, as required. Under no circumstances shall the fan be less than 70% total efficiency (TE). Under no circumstances shall riveted impellers be acceptable.
4. Motors shall be NEMA Design "B", TEFC, Class "F" insulated, rigid foot mounted. The minimum frame size shall be 143T. Motors shall be sized for 70°F ("cold") start and the horsepower listed shall be maximum unless specified otherwise.
5. All fans located outdoors shall be coated with a weather resistant paint or as required by temperature or duty. Motor chamber louvers shall be provided to protect motors. Where vertical roof fan design is used, a roof base and upblast damper module shall be provided with the same material and/or paint specs as above. Fan systems shall be capable of withstanding 100 mph winds without damage. Upblast damper modules shall be capable of a minimum of 350°F operation, or as required. Stacks or stack supports shall be provided only when shown on the drawings.
6. A mechanical shaft seal with a minimum efficiency of 90% shall be provided when space contamination is relevant or harmful gases are present in the system.
7. When shown, an evasé (outlet cone) shall be built into the fan discharge for the purpose of performance enhancement (static regain). This will be shown as a larger diameter than the fan inlet diameter.
8. A "jettison shroud" fan section shall be provided for quick wheel and/or motor removal.
9. Fan systems shall be balanced to a minimum of 1 mil double amplitude, peak to peak, in the arrangement needed on the project. Special balance to .5 mil balance or less shall be shown on the fan schedule.
10. Speed control devices, disconnect switches, companion flanges, spark resistance or special motors shall be provided as shown in the schedules.
11. Fans shall be "Bisected" design as manufactured by Strobic Air Corporation (or prior approved equal).

Strobic Air Corp. is a leading manufacturer of energy efficient industrial fans. In addition to our Bisected Duct Fan family, we offer a full line of axial fan designs to meet virtually any air moving requirement for the manufacturing, mining, marine and process industries. If you demand quiet, high performance, energy efficient fans, chances are we have the fan to meet your needs.

For additional information on the Strobic family of Bisected Duct Fans, write or call today.



FANS, SILENCERS AND SYSTEMS

160 Cassell Road, P.O. Box 144, Harleysville, PA 19438
1-800-SAC-FANS, (215) 723-4700, FAX: (215) 723-7401
E-mail: tristack@strobicair.com, Web site: www.strobicair.com



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