

Bisected Updraft Roof Fans

with direct drive motors



For removing hot exhaust gases, corrosive, harmful or annoying fumes, vapors, odors and dust in applications where efficient, roof mounted operation is important.

Two different models are available to meet your precise application. These include a low temperature fan (to 400°F) with variable pitch, field adjustable impellers, and a high temperature model (up to 950°F) with fixed pitch impellers and insulated double-wall housings. A high pressure series is also available.

Strobic bisected upblast roof fans are specially designed for use in high temperature, explosive and/or caustic environments commonly associated with processing and other heavy industries such as iron and steel foundries, smelting furnaces, refractories, rubber, chemical and petrochemical plants, food and beverage processing, research laboratories, utilities and others.

Other outstanding advantages of Strobic Air bisected upblast roof fans:

- ➊ **DIRECT DRIVE MOTORS ARE ISOLATED FROM AIRSTREAM** protecting them from heat and damaging gases even at continuous temperatures up to 950°F for high temperature models (400°F for standard models).
- ➋ **DIRECT DRIVE DESIGN ELIMINATES BELTS AND PULLEYS** fans are virtually maintenance free and always ready for immediate, automatic operation.
- ➌ **INTERNAL COMPONENTS ARE EASILY ACCESSIBLE** without fan removal.
- ➍ **HIGH VELOCITY DISCHARGE DISPERSES ALL GASES ABOVE ROOF LINE** preventing exhaust from re-entering work area regardless of weather conditions.
- ➎ **STRAIGHT THROUGH AIR FLOW DESIGN** – without directional changes – enhances air moving efficiencies and permits lower horsepower requirements.
- ➏ **MOST MODELS CONFORM TO THE INTENT OF SMOKE EXHAUST REQUIREMENTS** for municipal and state codes.

Special features of Strobic Air bisected upblast roof fans:

Continuously welded motor chambers protect motors from airstream, assuring reliability and long service life

Standard-off the shelf-foot mounted T or U frame motors provide years of dependable, maintenance free performance; explosion-resistant motors are also available

Gravity operated butterfly dampers disperse all gases above the roof line, prevent precipitation and gases from re-entering the building regardless of weather conditions

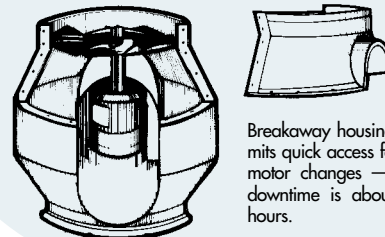
Insulated double-wall housings (high temperature model) protect motors from continuous high operating temperatures

Non-sparking cast aluminum, field adjustable impellers on low temperature models use improved airfoil sections for minimum air handling efficiency

High temperature models use carbon steel or stainless, fixed pitch axial flow impellers which are also offered for low temperature fans



JETTISON SHROUD OPTION



Breakaway housing permits quick access for fast motor changes — total downtime is about two hours.

Fan sizes range from 12" to 54"; other sizes are available on request

Standard capacities range up to 70,000 CFM, with pressures up to 10" SP

Optional fusible links and spring loaded dampers start fans automatically whenever temperatures below the roof line reach a pre-determined point

Housings are constructed of rugged, continuously welded, heavy gauge carbon steel; stainless steel housings are also offered for either fan

Bisected Upblast Roof Fans with direct-drive motors

Submittal Data:

Customer: _____
 Architect/Engineer: _____
 Project: _____

Drawing No.: _____ Date: _____

Submitted by: _____

Approved by: _____

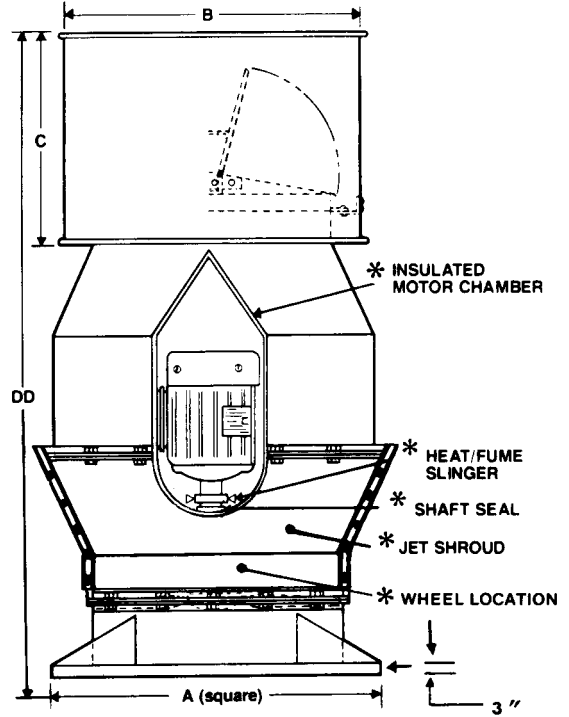
Date: _____

Bisected upblast roof fans with fixed pitch impellers and insulated double-wall housings for high temperature operation up to 950°F

*** Optional Features:**

1. Motor Chamber Louvers
 2. Acoustical Silencer Curb
 3. Hinged Base Section
 4. Roof Curb - 8" Standard (12" Optional)
 5. In-line Sleeve Silencer
 6. In-line Pod Silencer
 7. Jettison Shroud
 8. Insulated Motor Chamber
 9. Disconnect Switch (Mounted and Wired)
 10. Fusible Linked Damper
 11. Heat/Fume Slinger
 12. Shaft Seal
 13. Extended Grease Leads
 14. _____
 15. _____
- Housing material and finish: _____

Bisected upblast roof fans with variable pitch, field adjustable impellers for temperatures to 400°F



NOTE: † Consult factory for dimension when larger frames are required. Dimensions not to be used for construction unless certified.

Bisected Upblast Roof Fans

FAN SIZE	BASIC FAN DIMENSIONS				DD w/ Jet-Shroud	Max. † Motor Frame
	A (sq.)	B	C	D		
12	22	18	15.00	49.00	52.00	145T
15	26	21	16.50	53.50	56.50	184T
18	30	24	18.00	57.00	60.00	184T
19	30	25	18.50	57.50	60.50	184T
21	30	27	19.50	58.50	61.50	184T
24	34	30	21.00	62.00	65.00	215T
27	37	33	22.50	70.50	74.50	256T
30	40	36	24.00	72.00	76.00	256T
36	46	42	27.00	80.00	84.00	286T
38	46	44	28.00	81.00	85.00	286T
42	52	48	30.00	86.00	91.00	326T
48	58	54	33.00	89.00	94.00	326T
54	64	60	36.00	98.00	103.00	365T
60	70	66	39.00	102.00	107.00	365T

Performance Data

ITEM #	QTY.	MODEL #	VOLUME CFM	SP/TP	FAN RPM	B.H.P.	H.P.	MOTOR RPM	MOTOR CHAR.	TYPE	OPTIONAL FEATURES	SHIP Wt.

Note: Because we are constantly striving to improve our products, we reserve the right to provide versions of these products with slight variations from those described in this literature.



FANS, SILENCERS AND SYSTEMS

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