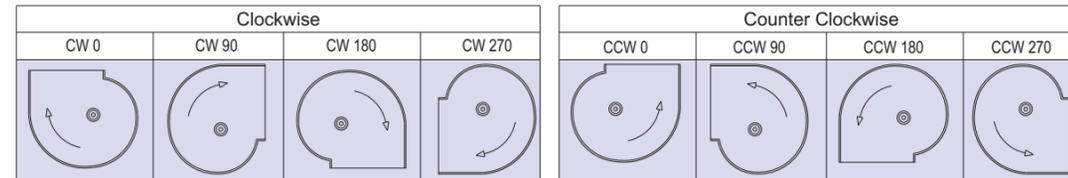


Performance Data - BAT Series

| Normal Performance Range | | | Typical Operating Point | | | | |
|--------------------------|-----------|---------|-------------------------|-----------------|---------|------|------------------|
| Model | CFM | Ps (mm) | CFM | Out. Vel. (m/s) | Ps (mm) | RPM | Shaft Power (hp) |
| 7 x 7S | 600-1100 | 15- 90 | 1000 | 9.8 | 50 | 1900 | .62 |
| 9 x 7S | 750-1400 | 15-100 | 1250 | 9.7 | 50 | 1478 | .63 |
| 9 x 9S | 1000-1750 | 15- 90 | 1600 | 9.7 | 50 | 1521 | .81 |
| 10 x 8S | 1000-1750 | 15-100 | 1600 | 9.9 | 50 | 1325 | .76 |
| 10 x 10S | 1200-2200 | 15- 90 | 2000 | 9.9 | 50 | 1326 | 1.00 |
| 12 x 9 | 1300-2400 | 20-100 | 2200 | 9.9 | 50 | 1142 | 1.05 |
| 12 x 12 | 1700-3100 | 20- 80 | 2800 | 9.8 | 50 | 1167 | 1.38 |
| 15 x 11 | 2000-3500 | 20- 90 | 3200 | 10 | 50 | 910 | 1.54 |
| 15 x 15 | 2500-4400 | 20- 75 | 4000 | 9.9 | 50 | 967 | 1.98 |
| 18 x 13 | 2600-4700 | 20- 90 | 4300 | 9.9 | 50 | 767 | 2.00 |
| 18 x 18 | 3400-6100 | 20- 85 | 5600 | 9.9 | 50 | 794 | 2.64 |

Fan Rotation & Orientation



Rotation is determined from the drive (motor) side of the fan



The Company's 20,000 sq. ft. plant in NOIDA, near New Delhi incorporates state of the art equipment and machinery.

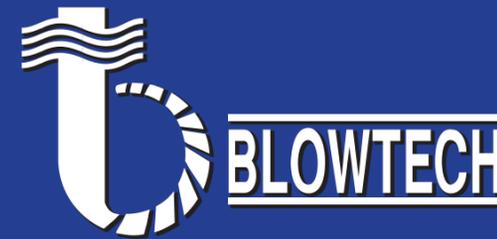
BLOWTECH AIR DEVICES PVT. LTD.

(An ISO 9001-2000 Certified Company)

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DOUBLE INLET CENTRIFUGAL FANS

(Forward Curved, Belt Driven)

BAT Series

FBD Series (Square Outlet Metric Size)



FBD R



FBD K



BAT S



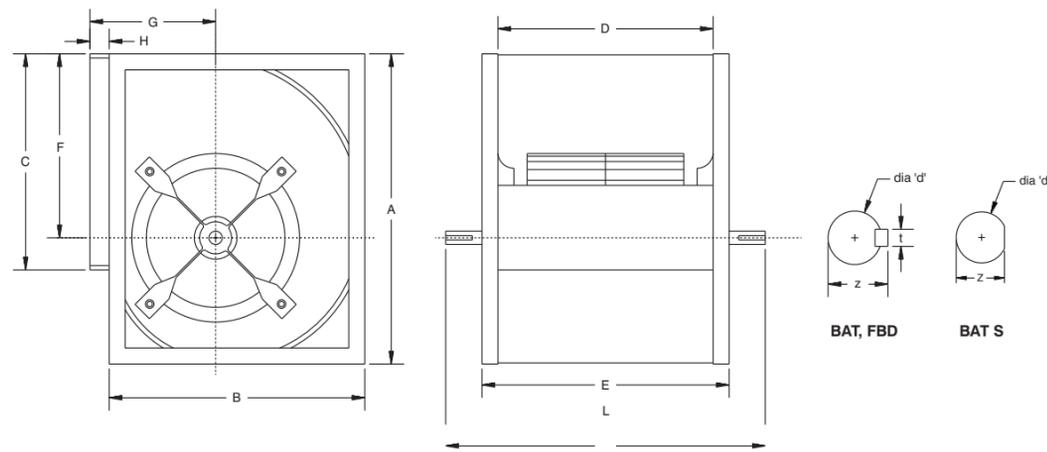
BAT

"FAN-TA-SIZE" Computerized Optimal Fan Selection Program

This sophisticated Windows based fan selection program automatically provides the best selection of BLOWTECH fans for a given requirement of air volume and pressure. It gives all the desired operating point parameters such as fan speed, fan power, motor power, outlet velocity, efficiency, etc. in a fraction of a second. No need now for voluminous fan performance data and approximate and laborious extrapolation methods for fan selection and operating point determination.



BLOWTECH DOUBLE INLET CENTRIFUGAL FANS



Dimensions - FBD Series

| Model | A | B | C | D | E | F | G | H | L | d | t | z |
|-----------|------|-----|-----|-----|-----|-----|-----|----|------|----|----|------|
| FBD 250 R | 460 | 384 | 322 | 322 | 372 | 272 | 195 | 35 | 480 | 20 | 6 | 22.5 |
| FBD 280 R | 518 | 432 | 360 | 360 | 420 | 304 | 215 | 35 | 550 | 25 | 8 | 28 |
| FBD 315 R | 580 | 480 | 404 | 404 | 464 | 342 | 236 | 38 | 600 | 25 | 8 | 28 |
| FBD 355 R | 654 | 542 | 453 | 453 | 534 | 385 | 261 | 36 | 665 | 30 | 8 | 33 |
| FBD 400 R | 730 | 606 | 506 | 506 | 586 | 432 | 290 | 40 | 725 | 30 | 8 | 33 |
| FBD 450 R | 830 | 680 | 569 | 569 | 649 | 487 | 322 | 45 | 815 | 30 | 8 | 33 |
| FBD 500 R | 918 | 750 | 638 | 638 | 718 | 540 | 352 | 50 | 875 | 35 | 10 | 38 |
| FBD 560 R | 1030 | 845 | 715 | 715 | 815 | 605 | 390 | 48 | 1000 | 40 | 12 | 43 |
| FBD 630 R | 1158 | 946 | 800 | 800 | 900 | 680 | 434 | 53 | 1090 | 40 | 12 | 43 |

| | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|-----|----|------|----|----|------|
| FBD 710 K | 1303 | 1061 | 898 | 898 | 998 | 765 | 485 | 60 | 1255 | 50 | 14 | 53.5 |
| FBD 800 K | 1468 | 1181 | 1007 | 1007 | 1107 | 862 | 540 | 74 | 1350 | 50 | 14 | 53.5 |
| FBD 900 K | 1648 | 1311 | 1130 | 1130 | 1230 | 971 | 604 | 97 | 1520 | 60 | 18 | 64 |
| FBD 1000 K | 1810 | 1450 | 1267 | 1267 | 1367 | 1066 | 657 | 90 | 1660 | 60 | 18 | 64 |

All dimensions are in mm

Dimensions - BAT Series

| Model | A | B | C | D | E | F | G | H | L | d | t | z |
|----------|-----|-----|-----|-----|-----|-----|-----|----|-----|----|---|----|
| 7x 7 S | 330 | 316 | 208 | 232 | 282 | 186 | 153 | - | 330 | 20 | - | 19 |
| 9x 7 S | 390 | 380 | 262 | 232 | 282 | 215 | 185 | - | 330 | 20 | - | 19 |
| 9x 9 S | 390 | 380 | 262 | 298 | 348 | 215 | 185 | - | 395 | 20 | - | 19 |
| 10x 8 S | 446 | 425 | 289 | 265 | 315 | 249 | 203 | - | 360 | 20 | - | 19 |
| 10x 10 S | 446 | 425 | 289 | 331 | 381 | 249 | 203 | - | 430 | 20 | - | 19 |
| 12x 9 | 525 | 455 | 341 | 309 | 369 | 294 | 230 | 38 | 495 | 25 | 8 | 28 |
| 12x 12 | 525 | 455 | 341 | 395 | 455 | 294 | 230 | 38 | 585 | 25 | 8 | 28 |
| 15x 11 | 620 | 538 | 404 | 373 | 453 | 342 | 264 | 36 | 585 | 25 | 8 | 28 |
| 15x 15 | 620 | 538 | 404 | 471 | 551 | 342 | 264 | 36 | 685 | 25 | 8 | 28 |
| 18x 13 | 745 | 650 | 478 | 430 | 510 | 415 | 314 | 36 | 665 | 25 | 8 | 28 |
| 18x 18 | 745 | 650 | 478 | 557 | 637 | 415 | 314 | 36 | 790 | 25 | 8 | 28 |

All dimensions are in mm

Note – Fan sizes 7x7 to 10x10 are provided with mounting feet (not rectangular side frames).

Salient Technical Features :

The **Blower Wheel** is made from high quality rust resistant galvanized sheet steel and has forward curved blades. A large forged steel or die cast aluminium hub with a precisely machined bore and a keyway is fitted to the wheel backplate. Use of precision tooling for the punching and assembling of wheel components results in extremely low levels of eccentricity and run out. The wheel is statically and dynamically balanced to balance quality grade G 6.3 of ISO 1940 standard.

The **Fan Housing** is also made from high quality rust resistant galvanized sheet steel with the housing wrapper fixed to the side plates using 'Pittsburg Lock'. Side plate profiles are precision cut for proper centering of the Impeller - Shaft assembly and accurate overall fan dimensions. Aerodynamically shaped inlet venturies form an integral part of the side plates in BAT & FBD R models.

The **Fan Shaft** is manufactured from high quality EN9 carbon steel with keyways at both ends (for pulleys) and the centre (for wheel hub) and is ground to close tolerance for precision fit.

The **Wheel - Shaft Assembly** is supported at both ends in very high quality imported pre-greased permanently sealed ball bearings with an eccentric locking collar. In BAT & FBD R models, each bearing sits inside a moulded rubber housing which in turn is mounted on to the fan housing using a set of 4 specially designed die-formed epoxy powder coated sheet steel brackets on each side. After assembly, the shaft is coated with a fine layer of anti-corrosion laquor.

Rectangular Side Frames made from G.I. sheets are bolted to the Fan Housing. This improves Fan rigidity and strength and allows easy mounting of the fan in various orientations. BAT S fans are provided with mounting feet.

In FBD K models, Side Frames are made of welded heavy gauge mild steel sections. The Wheel-Shaft assembly is supported in self-aligning bearing pillow blocks which are mounted on the steel side frames.

Performance Data - FBD Series

| Model | Normal Performance Range | | Typical Operating Point | | | | |
|------------|--------------------------|---------|-------------------------|-----------------|---------|------|------------------|
| | CFM | Ps (mm) | CFM | Out. Vel. (m/s) | Ps (mm) | RPM | Shaft Power (hp) |
| FBD 250 R | 1250-2300 | 15-100 | 2100 | 9.6 | 50 | 1455 | 1.20 |
| FBD 280 R | 1600-3000 | 15-100 | 2700 | 9.8 | 50 | 1290 | 1.48 |
| FBD 315 R | 2000-3700 | 15-100 | 3400 | 9.8 | 50 | 1163 | 1.83 |
| FBD 355 R | 2500-4600 | 15-100 | 4200 | 9.7 | 50 | 1015 | 2.20 |
| FBD 400 R | 3200-5800 | 15-100 | 5300 | 9.8 | 50 | 932 | 2.74 |
| FBD 450 R | 4100-7500 | 15-100 | 6800 | 9.9 | 50 | 802 | 3.52 |
| FBD 500 R | 5200-9500 | 15-100 | 8500 | 9.9 | 50 | 704 | 4.37 |
| FBD 560 R | 6300-12000 | 15-100 | 10500 | 9.7 | 50 | 626 | 5.35 |
| FBD 630 R | 8000-15000 | 15-100 | 13200 | 9.7 | 50 | 558 | 6.54 |
| FBD 710 K | 10000-19000 | 15-100 | 17000 | 9.9 | 50 | 492 | 8.31 |
| FBD 800 K | 12500-24000 | 15-100 | 21000 | 9.8 | 50 | 436 | 10.04 |
| FBD 900 K | 16000-30000 | 15-100 | 26500 | 9.8 | 50 | 391 | 12.80 |
| FBD 1000 K | 20000-38000 | 15-100 | 33500 | 9.8 | 50 | 347 | 15.97 |