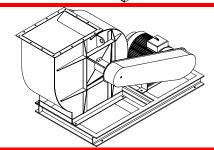
Beaufort fan range

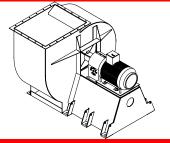
HALFAX FAN leaders in fan technology

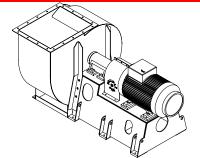
Typical driving arrangements and dimensions

CATALOGUE REF: - BFBI002-603









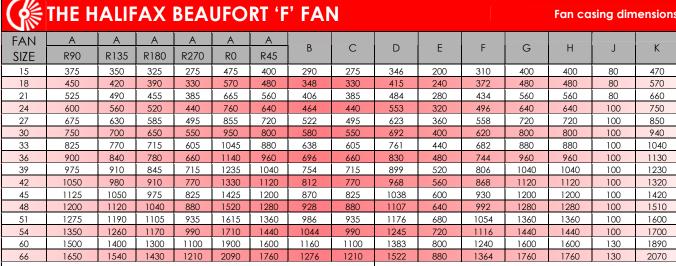


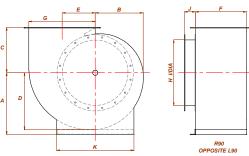


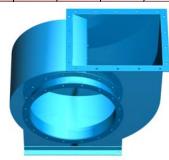






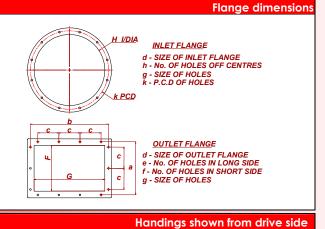






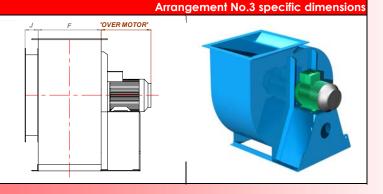
Fan casing dimensions

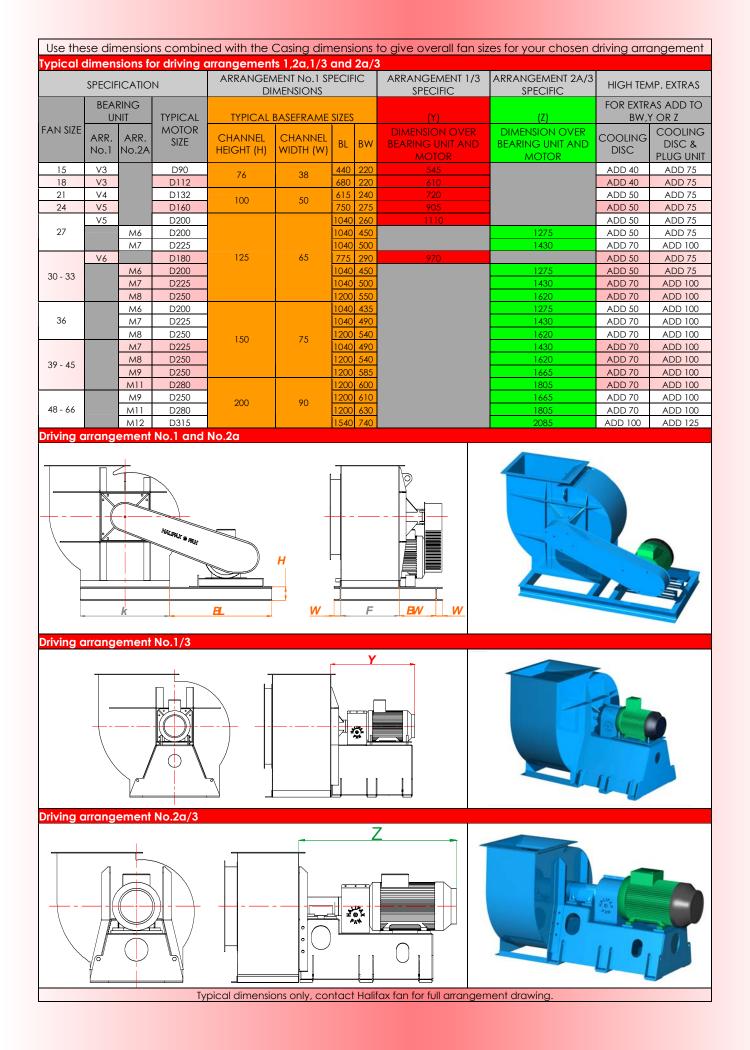
| FAN SIZE | а | b | С | d | е | f | g | h | k |
|----------|------|------|-----|----|----|---|----|----|------|
| 15 | 356 | 446 | 100 | 40 | 5 | 3 | 11 | 12 | 446 |
| 18 | 421 | 526 | 150 | 40 | 4 | 3 | 11 | 12 | 526 |
| 21 | 480 | 606 | 150 | 40 | 4 | 4 | 11 | 16 | 606 |
| 24 | 552 | 696 | 150 | 50 | 5 | 4 | 14 | 16 | 696 |
| 27 | 614 | 776 | 150 | 50 | 5 | 5 | 14 | 16 | 776 |
| 30 | 676 | 856 | 150 | 50 | 5 | 5 | 14 | 24 | 856 |
| 33 | 738 | 936 | 150 | 50 | 6 | 5 | 14 | 24 | 936 |
| 36 | 800 | 1016 | 150 | 50 | 7 | 6 | 14 | 24 | 1016 |
| 39 | 862 | 1096 | 150 | 50 | 8 | 6 | 14 | 24 | 1096 |
| 42 | 924 | 1176 | 150 | 50 | 8 | 7 | 14 | 24 | 1176 |
| 45 | 986 | 1256 | 150 | 50 | 9 | 7 | 14 | 24 | 1256 |
| 48 | 1048 | 1336 | 150 | 50 | 9 | 7 | 14 | 32 | 1336 |
| 51 | 1110 | 1416 | 150 | 50 | 10 | 8 | 14 | 32 | 1416 |
| 54 | 1172 | 1496 | 180 | 50 | 8 | 7 | 14 | 32 | 1496 |
| 60 | 1320 | 1680 | 180 | 70 | 10 | 8 | 17 | 32 | 1680 |
| 66 | 1444 | 1840 | 180 | 70 | 11 | 7 | 17 | 36 | 1840 |



R135 OPPOSITE L135 R180 OPPOSITE L180 R0 OPPOSITE L0 R45 OPPOSITE L45 R270 OPPOSITE L270

| FAN SIZE | TYPICAL MOTOR SIZE | SIZE OVER MOTOR | COOLING DISC (ADD TO 'OVER MOTOR' IF REQ'D) | | | | |
|-------------|-----------------------|--------------------|---|--|--|--|--|
| 15 | D90 | 275 | ADD 50 | | | | |
| 18 | D132 | 375 | ADD 50 | | | | |
| 21 | D160 | 495 | ADD 70 | | | | |
| 24 | D180 | 560 | ADD 70 | | | | |
| 27 | D200 | 700 | ADD 70 | | | | |
| 30 | D200 | 700 | ADD 70 | | | | |
| 33 | D200 | 700 | ADD 70 | | | | |
| 36 | D225 | 740 | ADD 70 | | | | |
| 39 | D250 | 845 | ADD 100 | | | | |
| 42 | D280 | 930 | ADD 100 | | | | |
| HALIFAX FAM | | | | | | | |































The Halifax Beaufort range is now available with four non-overloading high efficiency impeller types, 'F' Backward Inclined, 'F' Backward Curved, 'L' Backward Curved and Aerofoil. All are specifically designed for large volume duties.

The Beaufort 'F' Backward Inclined impeller has self-cleaning characteristics, suitable for light dust loaded air streams.

The Beaufort 'F' and 'L' Backward Curved impellers offer higher efficiencies than backward inclined, but should only be used for dust free airstreams.

Also new to the Beaufort range is the high<mark>ly efficient ae</mark>rofoil impeller which also offers reduced noise emissions.

 Designed specifically for large volume duties.

The Beaufort 'f' fan range

- Good operating efficiency.
- Non-overloading impeller design.
- Backward inclined fans offer excellent self-cleaning blade characteristics.
- Backward Curved design available to give higher efficiency for clean gas airflows.
- Highly efficient aerofoil impeller now available that also offers reduced noise levels.

Performance rating



All Halifax Fan performance ratings are a result of performance tests to BS848 Part 1: 1980 type D ducted inlet and outlet tests. They are also regularly audit tested in accordance with our quality assurance system, which conforms to ISO 9001.

Temperature range

- Standard Fan operating temperatures
- Fans operating between 70 ℃ and 230 ℃ require a cooling disc.
- Fans operating between 230 ℃ and 315 ℃ require a plug unit and cooling
- For fans operating above 315 °C contact Halifax Fan Ltd.



Standard Halifax Beaufort Fans normally serve applications at temperatures up to 70°C. Higher temperature requirements are effectively catered for by the incorporation of carefully designed modifications to protect the fan bearings. Fans operating between 70°C and 230°C are supplied with a cooling disc fitted to the fan shaft between the fan case and the bearing unit.

For operating temperatures between 230°C and 315°C a cooling disc is

For operating temperatures between 230°C and 315°C a cooling disc is fitted in addition to fibreglass filled plug unit located between the fan side plate and bearing unit. The fabrication techniques used in the construction of these impellers are modified to ensure operational stability in the high temperature environment

Construction details



Casing

The fan casings are of an all welded construction and substantially braced for extra rigidity. Casings up to and including size 39 are made in one piece. The impellers can be removed from the inlet side after taking off the front plate. Standard sizes 42 and larger are made in two pieces and these pieces are flanged, drilled and bolted together (known as a split case). Above a size 60, the casings are in three parts with the top section being divided.

Impeller

The impellers are dynamically and statically balanced in accordance with BS. 6861: Part 1: 1987 and ISO 1940/1:1986. They are precision built components typically made up of twelve blades welded between a substantial back plate and conical shroud. The precision laser cut back plate with blade slots ensures utmost accuracy in the angle and position of blades. Impellers are fitted with a cast-iron centre boss, precision bored with a British standard keyway to suit.

Finish



Great care is taken with the protective finish of Halifax fans and their appearance. Fans selected for normal temperature conditions are powder coated RAL5015 (certain other colours available at no extra cost). Powder coating offers significant advantages over liquid paint finishes, as the process provides a harder, more durable high quality finish, giving added protection. Special finishes are also supplied to suit unusual operating conditions or customer requirements.



For more information contact Halifax Fan or Visit our Web site:

TEL: +44 (0) 1484 475123 FAX: +44 (0) 1484 475122 E-mail: sales@halifax-fan.co.uk

www.halifax-fan.co.uk

Halifax Fan Ltd, Unit 11, Brookfoot Business Park, Elland Rd, Brighouse, W. Yorks, U.K. HD6 2SD