FanAir India Pvt. Ltd.

FAFC Series
Double Inlet Double Width
Centrifugal Fan
With forward curved wheel

FanAir India Pvt Ltd

certifies that the FAFC series: version F, P & Q - model 400 to 1000 shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 211 and AMCA publication 311 and comply with the requirements of the AMCA certified ratings program.
FAFC SERIES
DIDW CENTRIFUGAL FANS - FORWARD WHEEL

FAFC Series is a Double Inlet Double Width (DIDW) centrifugal blower with forward curved wheel. These fans are suitable for Supply & exhaust application in commercial & industrial (HVAC) systems. Maximum operating speed and power of each fan type is due to its mechanical design. The operating limit of different fan types of FAFC series is set according to the requirement of Class I, II & III limit as defined in AMCA Standard 99-16.

The FAFC Series is available in type F, P & Q.

<table>
<thead>
<tr>
<th>FAN MODEL &amp; TYPE</th>
<th>Fan Model (mm)</th>
<th>F</th>
<th>P</th>
<th>Q</th>
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<tr>
<td>400 to 710</td>
<td>I</td>
<td>II</td>
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<tr>
<td>800 to 1000</td>
<td>I</td>
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TYPE -F :- This type has a frame fitted on both sides of the fan which gives better strength and rigidity. It allows mounting in four different orientations.

- Fan Size :- 400 mm to 710 mm
- Volume :- 1100 CMH to 50000 CMH
- Total Pressure :- up to 1200 Pa

TYPE -P :- This type has a welded frame, giving increased stiffness and rigidity required for higher operating performance.

- Fan Size :- 400 mm to 1000 mm
- Volume :- 1000 CMH to 100000 CMH
- Total Pressure :- up to 1500 Pa

TYPE -Q :- The Structure is similar to type P but utilizes enhanced bearings to support higher dynamic load necessary for the increased performance.

- Fan Size :- 560 mm to 1000 mm
- Volume :- 2500 CMH to 120000 CMH
- Total Pressure :- up to 1600 Pa
TECHNICAL SPECIFICATION

WHEEL
The wheel of FAFC series is made of galvanised sheet steel forward curved blades. To obtain a maximum efficiency & low noise level, these wheel are specially profiled. A die cast aluminium hub with a precisely machined bore a key way is fitted to the wheel plates. The wheel is statically and dynamically balanced.

HOUSING
The housing is manufactured in galvanized sheet steel with the housing fixed to the side plates by using pittsburg lock for sizes.

FRAME
For type “F” frame is of GI Sheet angle in which GI sheet is sheared, bend and spot welded in a way that ensures correct dimensions and also maximum rigidity. For type “P” & “Q” frames are of M.S sections, in which sections are cut to desired sizes and welded together to form rigid frame to provide strength and stability to the fan.

SHAFT
Shafts are manufactured from EN8 carbon with key ways at both ends and at the centre for hub of wheel. All dimensional tolerances of the shaft are fully checked to ensure a precision fit. All shafts are then coated with an anti corrosion varnish after assembly.

BEARINGS
All bearings used are deep groove ball bearing type sealed at both side. The bearings are self-aligning with an eccentric locking collar for clamping onto the shaft and each bearing sits in side a moulded rubber housing.

All the bearings are lubricated for life and maintenance-free under normal operating conditions.

FAN ROTATION AND DISCHARGE
The rotation and discharge of the fan is in accordance with AMCA Standard 99-16. The direction of rotation is determined from the drive side of the fan [refer Fig. 1] :-

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<th>270°</th>
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</table>

Fig. 1 - Fan rotation and discharge
MOTOR POSITION

The position of the motor for belt drive centrifugal fan is in accordance with Location of motor is determined by facing the drive side of fan and designating the positions by letters W, X, Y, or Z. (Fig. 2)

Fig. 2 - Motor Position

MOTOR SELECTION

The power curves shown on each performance graph represent the absorbed power at the shaft of the fan measured in KW. To determine the power of the motor to be installed, a correction factor as shown in fig.3 should be applied to compensate for transmission losses.

For conversion to horsepower (HP) use multiplying factor 1.34.

Fig. 3 – Recommended for compensation
DYNAMIC PRESSURE

The dynamic pressure and outlet air velocity shown on each curved are calculated on the full air discharge area, i.e. ducted outlet conditions.

With free outlet conditions, the velocity pressure is higher. To determine this new value, multiply the velocity pressure of the ducted outlet obtained from the fan curve by the following correction factor “K”.

Fan performances calculated with this correction factors are not licensed by AMCA International.

\[ K = 2.6 \]

PERFORMANCE

The performance data shown on each diagram has been tested and measured in accordance to AMCA Standard 210.

Ratings are referred to the standard air density with the total pressure as a function of the air volume, using logarithmic scales.

It is essential that, the same installation type and test standard are used at all times, when comparing fan.

NOISE

The noise level shown on each diagram refer to the sound power “A-weighted” and the data on the inlet side has been measured in accordance with AMCA Standard 300 configuration “B”. The noise level of the fans are determined as follows:

Sound power level - ("A" scale) : \( L_w (A) \) as catalogue

Octave band spectrum: \( L_w = L_w(A) + L_w \text{ rel. dB} \)

Sound pressure level:

A) Free field

\[ L_p (A) = L_w(A) - (20 \log_{10} d) - 11 \]

B) Room conditions

\[ L_p (A) = L_w(A) - (20 \log_{10} d) - 8 \]

Where \( d \) = distance from fan (m)
Volume Flow Rate 'Q' = 16500 CMH (Q)
Static Pressure = 400 Pa
Dynamic Pressure = 46 Pa
Shaft Power (H) = 3.2 KW
Sound Power Level Lw(A) = 86 dB(A)

Outlet Velocity (V) = 8.9 m/s
Total Pressure (Pv) = 446 Pa
Fan Speed = 595 RPM
Total Efficiency (\(\eta\)) = 62.5%

Notes:
1. Performance certified is for Installation Type B: Free inlet & ducted outlet.
2. Power rating (kW) does not include transmission losses.
3. Performance ratings do not include the effects of appurtenances (accessories).
4. Values shown are for inlet LwA sound power levels for Installation Type B: Free inlet, ducted outlet.
5. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
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Fan Efficiency Grade :- FEG63

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Fan Efficiency Grade :: FEG67

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5. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
Dimension:

FAFC - ‘F’

FAFC - 400 ‘F’

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FAFC - ‘F’

FAFC - 450 - 710 ‘F’

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All dimensions are in mm.
### FAFC - 400 ‘P’

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### FAFC - 450 - 1000 ‘P’

| Model | A   | B   | C   | D   | E   | F   | G   | F1  | H   | J   | K   | L   | M   | N   | P   | R   | t   | t1  | W   | φd  | UxS |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 450   | 832 | 728 | 487 | 574 | 574 | 488 | 322 | 632 | 688 | 614 | 654 | 880 | 113 | 40  | 40  | 7   | 10  | 8   | 50  | 35  |
| 500   | 920 | 801 | 534 | 645 | 645 | 551 | 351 | 720 | 751 | 685 | 725 | 963 | 119 | 40  | 50  | 7   | 12  | 8   | 70  | 40  |
| 560   | 1030| 900 | 603 | 720 | 720 | 650 | 397 | 830 | 850 | 770 | 820 | 1086| 133 | 50  | 50  | 7   | 12  | 8   | 70  | 40  |
| 630   | 1156| 1000| 676 | 808 | 808 | 645 | 434 | 856 | 858 | 908 | 1174| 133 | 50  | 50  | 8   | 14  | 9   | 70  | 45  |
| 710   | 1311| 1127| 770 | 908 | 908 | 767 | 488 | 1011| 1067| 958 | 1008| 1290| 141 | 50  | 60  | 8   | 14  | 9   | 90  | 50  |
| 800   | 1468| 1255| 862 | 1017| 1017| 830 | 540 | 1118| 1180| 1067| 1117| 1390| 137 | 50  | 75  | 8   | 16  | 10  | 90  | 55  |
| 900   | 1650| 1409| 970 | 1145| 1145| 969 | 603 | 1300| 1319| 1195| 1245| 1560| 158 | 50  | 90  | 9   | 18  | 11  | 90  | 60  |
| 1000  | 1810| 1540| 1065| 1265| 1265| 1100| 656 | 1460| 1450| 1315| 1365| 1730| 183 | 50  | 90  | 9   | 18  | 11  | 90  | 60  |
| 1120  | 2033| 1725| 1200| 1422| 1422| 1280| 748 | 1683| 1630| 1472| 1522| 1930| 204 | 50  | 95  | 9   | 20  | 12  | 110 | 70  |
| 1250  | 2285| 1930| 1353| 1524| 1554| 1435| 830 | 1885| 1835| 1619| 1684| 2260| 288 | 65  | 95  | 9   | 22  | 14  | 110 | 80  |

All dimensions are in mm.
Dimension:

**FAFC - F2**

**FAFC - 400 ‘F2’**

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All dimensions are in mm.
Dimension:

FAFC - 'Q'

| Model | A   | B   | C   | D   | E   | F   | G   | F   | H   | J   | K   | L   | M   | N   | P   | R   | t   | t1  | W   | φd  | UxS |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 560   | 1030| 900 | 603 | 720 | 720 | 650 | 397 | 830 | 850 | 770 | 820 | 1086| 133 | 50  | 50  | 7   | 16  | 10  | 90  | 55  | 24*17 |
| 630   | 1156| 1000| 676 | 808 | 808 | 645 | 434 | 856 | 945 | 858 | 908 | 1174| 133 | 50  | 50  | 8   | 18  | 11  | 90  | 60  | 24*17 |
| 710   | 1311| 1127| 770 | 908 | 908 | 767 | 488 | 1011| 1067| 958 | 1008| 1290| 141 | 50  | 60  | 8   | 18  | 11  | 90  | 65  | 24*17 |
| 800   | 1468| 1255| 862 | 1017| 1017| 830 | 540 | 1118| 1180| 1067| 1117| 1390| 137 | 50  | 75  | 8   | 18  | 11  | 90  | 65  | 25.5*17 |
| 900   | 1650| 1409| 970 | 1145| 1145| 969 | 603 | 1300| 1319| 1195| 1245| 1560| 158 | 50  | 90  | 9   | 20  | 12  | 110 | 70  | 25.5*17 |
| 1000  | 1810| 1540| 1065| 1265| 1265| 1100| 656 | 1460| 1450| 1315| 1365| 1730| 183 | 50  | 90  | 9   | 20  | 12  | 110 | 70  | 25.5*17 |
| 1120  | 2033| 1725| 1200| 1422| 1422| 1280| 656 | 1683| 1630| 1472| 1522| 1930| 204 | 50  | 95  | 9   | 20  | 12  | 110 | 75  | 25.5*17 |

All dimensions are in mm.
Dimension:

FAFC - ‘P2’

FAFC - 400 ‘P2’

| Model | A   | B   | C   | D   | E   | F   | G   | F1  | H   | J   | K   | L   | M   | N   | P   | Q   | R   | t   | t1  | W   | φd  | UxS |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 400   | 739 | 655 | 432 | 507 | 507 | 415 | 290 | 739 | 615 | 547 | 587 | 740 | 77  | 40  | 40  | 400 | 6   | 10  | 8   | 50  | 35  | 11*16 |

FAFC - ‘P2’

FAFC - 450 - 630 ‘P2’

| Model | A   | B   | C   | D   | E   | F   | G   | F1  | H   | J   | K   | L   | M   | N   | P   | Q   | R   | t   | t1  | W   | φd  | UxS |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 450   | 832 | 728 | 487 | 574 | 574 | 488 | 322 | 832 | 688 | 1638| 1678| 1761| 83  | 40  | 40  | 450 | 7   | 12  | 8   | 70  | 40  | 11*16 |
| 500   | 920 | 801 | 534 | 645 | 645 | 551 | 351 | 920 | 751 | 1830| 1870| 1970| 100 | 40  | 50  | 500 | 7   | 12  | 8   | 70  | 40  | 11*16 |

All dimensions are in mm.
FanAir India Pvt. Ltd.
Add :- Plot No. 4, Khasra No. 73/19/2/22/1, swarn park, near metro pillar no. 469 mundka delhi-110041
Mob :- 9811347199, 9811937730, 9811323237, 9814936793
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