JMC AEROFoil
PERFORMANCE CATALOGUE - 2018

» WE BRING BETTER AIR TO LIFE

Certified Model :
JMC - 100, 112, 125, 140

FG / IN / AXIAL / JMC / AIR-SOUND - FEG / JUNE'2018
JMC AEROFOIL - DESCRIPTION

Features
- 1000 - 1400 mm diameter
- Volumes up to 186,500 m³/h (518 m³/s)
- Static pressures up to 2400 Pa
- Fans tested to ISO5801 and BS848
- High energy efficiency
- Low installed noise levels
- Motor protection IP55
- Larger sizes available please enquire for more information

Electrical Supply
- 380-420V/50-60Hz/3 ø

Temperature Range
- -40°C to 50°C as standard
- 50°C to 70°C must be run at full speed only

Sizes
1000, 1120, 1250, and 1400 mm.

Impellers
A unique high efficiency aerofoil section blade with a purposely smoothed hub and clamp plate for adjustable pitch angle availability.

FlktGroup impellers are all high pressure die cast to offer thin aerofoil sections for low generation of noise. Every cast aluminium component is X-ray examined using Real Time Radiography inspection prior to assembly. The maximum pitch angles shown allow for speed control by frequency inverter (3ph only).

Sealed for life bearings lubricated with wide temperature range grease. These motors are suitable for inverter speed control down to 20% of full speed and where within scope incorporate IE2 compliant motors.

Casings
JMC Aerofoil fans are available in either a long cased form, complete with an externally mounted pre-wired electrical terminal box, or short cased for duct or plate installation. Casings are spun from sheet steel with integral pre-drilled and radiused inlet flanges. The galvanised finish gives a high resistance to corrosion and is ideal for external as well as internal use.

Product Code
100JMC/25/4/6/32
- 100 - denotes the fan impeller diameter in centimetres
- JMC - denotes fan type
- 25 - denotes impeller hub diameter in centimetres
- 4 - denotes a nominal 4 pole speed
- 6 - denotes the number of blades
- 32 - denotes the pitch angle for the required duty

Accessories Available (on request)

Motors
All motors are totally enclosed air stream rated class F insulation. Constructed from aluminium or cast iron as standard with special ‘T’ slot, pad or foot mounted fixings. Single speed motors are suitable for speed control by voltage regulation where indicated. Three phase motors are suitable or use with frequency inverters, suitable for turn down to 20% of maximum speed. Two speed motors are available on request. Suitable for horizontal or vertical shaft operation. Supplied IP55, with removable drain plugs.
HOW TO SPECIFY A FAN

Specifying The Fan

Having chosen the fan most suitable for your individual application.

Please specify as follows:-

1. The fan shall be manufactured by FläktGroup model type JMC Aerofoli long or short cased (L or S-type).

2. Motors, squirrel cage type, insulated to class F, bearings lubricated with wide temperature grease, keyed shaft. To comply with BS5000 Pt 9 and IEC 34-1. Weatherproof to IIP5. (Overheat protection provided on most single phase motors).

3. Impellers, precision die cast aluminium hub and clamp-plate, with equally spaced, fully adjustable precision die cast Aerofoli section blades. All rotating aluminium components to be X-ray examined prior to machining to assure quality of castings.

4. Casings, either a long cased form complete with an externally mounted pre-wired electrical terminal box, or short cased for duct or plate installation. Casings are spun from sheet steel with integral pre-drilled flanges, fully welded seams and hot-dipped galvanised after manufacture for excellent durability.

5. Mounting Arms, manufactured from mild steel hot dipped galvanised after manufacture.

6. Performance shall be independently approved by AMCA, and established in accordance with ISO5801:1997 Installation category D, method of testing air performance and AMCA 300 for sound testing.

7. Ancillaries as required.

Ordering The Fan

After identifying the best fan for your application please order as follows:-

1. Fan type: JMC Aerofoli Long cased (L-type), or Short Cased (S-type) Form A or Form B.

2. Fan Code:
   eg: 100JMC/20/8/6/24
   where: 100 denotes the Fan impeller diameter in centimetres.
   JMC denotes Fan Type.
   /20 denotes impeller hub diameter in centimetres.
   /8 denotes a nominal 8 pole speed.
   /6 denotes the number of blades.
   /24 denotes the Pitch Angle for the required duty.

3. Quantity required.

4. Duty required at standard air and temperature e.g. 1.60 m³/s @ 50 Pa.

5. Motor: eg: 100L.

6. Electrical Supply:
   220-240 V / 50 Hz / 16
   380-420 V / 50 Hz / 34

7. Ancillary items required.
   - Mounting Feet
   - Impeller and Motor Side Guards
   - Silencers with or without pod
   - Speed Controller (electronic or auto-transformer)
   - or 2 speeds with type MOS310
   - Air Operated Dampers
   - Matching Flanges
   - Bellmouth inlets
   - Flexible Connectors
   - Vibration Isolators

FläktGroup India Pvt. Ltd. certifies that the 100 JMC, 112 JMC, 125 JMC and 140 JMC shown herein are Bonded 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.
GUIDE TO FAN SELECTION SELECTION EXAMPLE - TOTAL PRESSURE

There are two principle methods of expressing the pressure requirements, namely, $P_t$ (Total) and $P_{st}$ (Static) pressure. The two types of pressure are related:

$P_t = P_{st} + P_{df}$  \( \text{Fan Total pressure} \)

$P_{st} = \text{Fan Static pressure}$

$P_{df} = \text{Fan Dynamic pressure}$

The international convention considers fan performance in terms of total pressure, but there is also established practice relating to the use of static pressure. For this reason FlaktGroup selection charts are laid out on a total pressure major scale and include a secondary grid for static pressure. The facility to display fan performance in terms of static pressure is necessary in order to avoid total pressure fan selections being made based on static pressure system requirements.

The guide selections are made for either total or static pressures of 1000 Pa. The resulting selections are quite different and highlight the consequences of selecting static pressure from charts that only display performance in terms of total pressure.

Procedure - Total Pressure (PF)

1. Guide to Chart Numbers of Possible Selections

The charts are arranged in order of fan diameter, starting at 315 mm, up to 1600 mm diameter, and in order of fan speed for each diameter, 3, 5, 6, 9 & 12 bladed fan impellers as available.

**NOTE** The chart numbers lead to a variety of fan sizes, impeller configurations and speeds. The fan selected from the alternatives available will depend on the most critical factor for the particular application - Volume Flow and Pressure required, Size, Power Consumption, Sound Level or First Cost.

2. Required Duty

Establish the volume flow and total pressure required of an individual fan at Standard Air (1.2 kg/m).

3. Selection on Individual Fan Charts

The data provided on each performance chart is specifically for ducted - Type D (ducted) installations for both long or short cased (S-type) fans.

Providing reasonable Type D conditions are maintained in installation of the fans, no additional factors to volume flow or pressure need be incorporated for a suitable selection to be made.

Plot the duty on the selected fan charts to establish blade angle, sound level, absorbed power, motor size and rating, for the particular arrangement.

- **Duty Point Required** - @ Standard Air (1.2 kg/m³).
  - $0.55 \text{ m}^3/\text{s} @ 100\text{ Pa total pressure}$
- **Volume Flow** = $0.55 \text{ m}^3/\text{s}$
- **Fan Total Pressure** = 100 Pa
- **Overall inlet Sound Power Level** = 72 (LW Interpolated from surrounding levels).
Fan Code: 100JMC/25/4/6/…
1000 mm 1450 rev/min 6 Blades 50 Hz

Performance certified is for installations type D-Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

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FläktGroup India certifies that the 100JMC/25/4/6 series shown herein are 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.

Performance certified is for installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories)

The Sound Power Level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. Values shown are for inlet LW1 and LWIA sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
Fan Code: 100JMC/25/4/3/...
1000 mm 1440 rev/min 3 Blades 50 Hz

Performance certified is for installations type D-Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

FläktGroup India certifies that the 100JMC/25/4/3 series shown herein are 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.

Performance certified is for installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories)

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The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
Fan Code: 100JMC/25/8/6/...
1000 mm 695 rev/min 6 Blades 50 Hz

Performance certified is for installations type D-Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

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The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
Fan Code: 100JMC/25/6/3/...  
1000 mm 935 rev/min 3 Blades 50 Hz

Performance certified is for installations type D-Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

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Performance certified is for installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories).

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The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
Fan Code: 112JMC/40/6/6/... 1120 mm 960 rev/min 6 Blades 50 Hz

Performance certified is for installations type D-Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

FläktGroup India certifies that the 112JMC/40/6/6 series shown herein are 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.

Performance certified is for Installation type D: Ducted Inlet- Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories)

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The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
Fan Code: 112JMC/40/6/9/...
1120 mm 960 rev/min 9 Blades 50 Hz

Performance certified is for installations type D-Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

FläktGroup India certifies that the 112 JMC/40/6/9 series shown herein are 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.

Performance certified is for Installation type D: Ducted Inlet- Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories)

The Sound Power Level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. Values shown are for inlet LWI and LWIA sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
Fan Code: 112JMC/40/8/6/...
1120 mm 720 rev/min 6 Blades 50 Hz

Performance certified is for installations type D-Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

FläktGroup India certifies that the 112JMC/40/8/6 series shown herein are Licensed to bear the AMCA Seal.

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The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
Fan Code: 112JMC/40/4/6/...
1120 mm 1470 rev/min 6 Blades 50 Hz

Performance certified is for installations type D-Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

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The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
Fan Code: 112JMC/40/4/9/...
1120 mm 1470 rev/min 9 Blades 50 Hz

Performance certified is for installations type D-Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

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Performance certified is for installations type D-Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

FläktGroup India certifies that the 125JMC/40/6/6 series shown herein are licensed to bear the AMCA Seal.

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The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
Fan Code: 125JMC/40/6/9/...
1250 mm 960 rev/min 9 Blades 50 Hz

Performance certified is for installations type D-Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

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The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
Fan Code: 125JMC/40/4/9/...
1250 mm 1470 rev/min 9 Blades 50 Hz

Performance certified is for installations type D-Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

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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.

Performance certified is for Installation type D: Ducted Inlet- Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories)

The Sound Power Level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. Values shown are for inlet LWI and LWIA sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
Fan Code: 125JMC/40/8/9/...
1250 mm 720 rev/min 9 Blades 50 Hz

Performance certified is for installations type D-Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

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FläktGroup India certifies that the 125JMC/40/8/6 series shown herein are Licensed to bear the AMCA Seal.

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The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
**Fan Code: 125JMC/40/4/6/...**

1250 mm 1470 rev/min 6 Blades 50 Hz

Performance certified is for installations type D-Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

**FULL OCTAVE BAND FREQUENCY**

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The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
Fan Code: 140JMC/40/8/6/...
1400 mm 720 rev/min 6 Blades 50 Hz

Performance certified is for installations type C-Ducted inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories).

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FULL OCTAVE BAND FREQUENCY

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**Fan Code: 140JMC/40/8/9/...**

1400 mm 720 rev/min 9 Blades 50 Hz

Performance certified for installations type C-Ducted inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories).

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Fan Code: 140JMC/40/6/9/...  
1400 mm 960 rev/min 9 Blades 50 Hz

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Advanced Selection Tools

Computational Fluid Dynamics (CFD)

Airflow behaviour is difficult and complicated to predict, especially in large spaces such as car parks. Accurate calculations are therefore paramount when creating an effective ventilation system. FläktGroup’s modelling is backed up with both lab test research and smoke tests in real car parks to ensure accuracy.

Manual calculations methods used by many as their sole solution are extremely limited. At FläktGroup we therefore offer a full CFD analysis to customers on all projects to prove our solution.

FläktGroup’ World Class Fan Selector Program

Extended features for efficient Fan Selection. The FläktGroup Fan Selector is probably the most comprehensive tool of its kind in the world. The software has been developed based on many years experience of producing fan selection tools.

The Fan Selector Tool is available to all customers and prospects. To get access you need only a browser with an Internet connection. The tool can be configured with your own preferences (Language, metric, LCC calculation set up, currency, etc.). The tool currently includes a large number of the FläktGroup axial fans, centrifugal fans, box and duct fans, and our Energy Recovery Units.

FläktGroup India Pvt Ltd - Your local expert

At FläktGroup India we offer expert knowledge and manufacturing since our establishment in the 1950s. Not only do we sell Air Movement products such as fans for fire safety and normal ventilation applications, we have the advantage of being a manufacturer of highly efficient AHUs and are in the unique position of offering both Air Movement and Air Treatment product families.

Our fully integrated state of art manufacturing facility has over 10,000 m² capacity. For the first time in India, we have introduced capabilities of manufacturing all AHU components in house. FläktGroup has the facilities to satisfy our customers’ needs.
WE BRING BETTER AIR TO LIFE

FläktGroup is a global leader for indoor Air Comfort and Fire Safety. We specialize in the design and manufacturing of a wide range of products, systems and components to provide the best performances and maximum energy efficiency. Our product brands such as SEMCO®, eQ®, eQ Prime®, JIM Aerolift®, Econet®, Veloduct®, Optivent®, Optimix®, Econovent® and Cleanvent® are well known and trusted by customers all over the world to deliver best Air Comfort and Fire Safety.

Our collective experience is unrivalled for every customer application like Offices, Hygiene, Hotels, Public Buildings, Education, Car Parks, Retail, Green Buildings, Marine, Oil & Gas and others.

FläktGroup India Pvt Ltd
38 Udyog Vihar, Ecotech II, Greater Noida - 201306, UP, India, Email: salessupport.in@flaktigroup.com

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