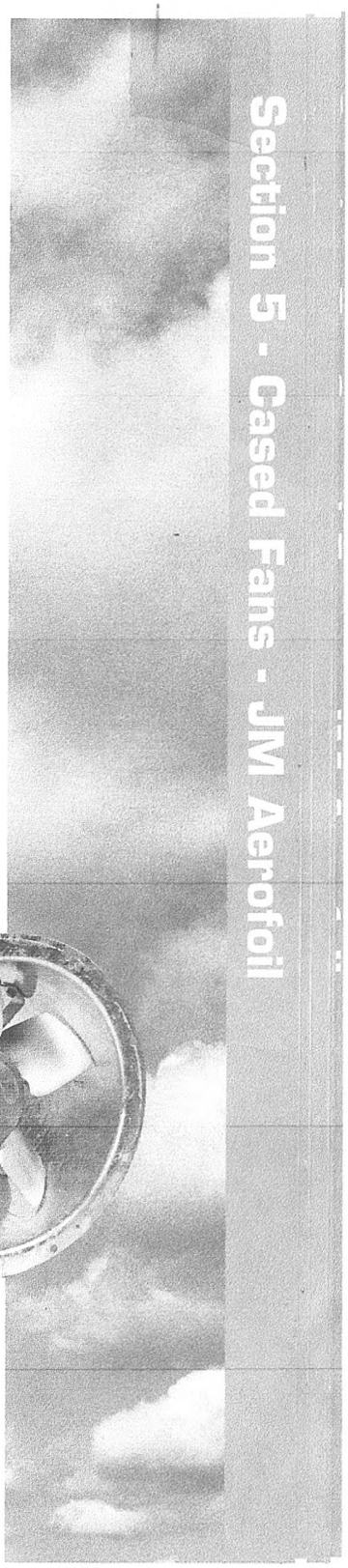
JM Aerofoil

Section 5.1

- Eleven sizes are offered from 315mm to 1000mm diameter.
- Volume flows of up to 19m³/s
- Static pressures up to 800 Pa
- High energy efficiency
- Low installed noise levels
- Motor protection IP55
- All casings are hot dipped galvanised
- Overheat protection is fitted as standard
- Inverter controllable



Sizes

31JM - (315mm) to 100JM - (1000mm).
Larger sizes up to 2800mm diameter are also available. Please enquire.

Fan Performance

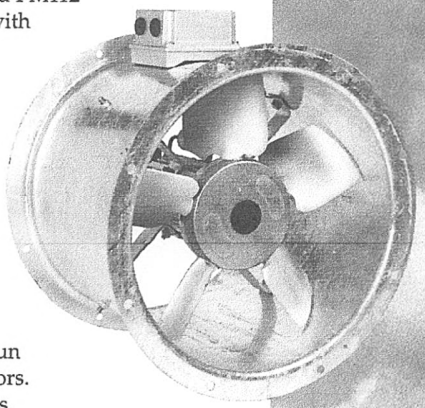
All fans are tested to the latest internationally recognised standard IS05801 Part 1 (1997), installation category D (AMCA approved) for aerodynamic performance and BS848 Part 2 (1985) for acoustic performance. Coupled with a wide range of fan diameters, the adjustable pitch Aerofoil impeller gives the exact performance required, with a non overloading fan characteristic.

Impellers

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

Motors

All motors are totally enclosed air stream rated class F insulation. Constructed from aluminium or cast iron as standard with special 'T' slot or pad mounted fixings. Single speed motors are suitable for speed control by voltage regulation where indicated. Three phase motors are suitable for use with frequency inverters. Two speed motors where available are pole change type.
Suitable for horizontal through to vertical shaft operation. Supplied IP55, with removable drain plugs. Sealed for life bearings lubricated with wide temperature range grease. The BT, CT, F22 and PM112 motors are all fitted with overheat protection thermostat as standard. D motors are fitted with Thermistor OHP.
These motors are suitable for inverter speed control down to 20% of full speed.



Electrical Supply

220 - 240V / 50Hz / 1ϕ
380 - 420V / 50Hz / 3ϕ

Temperature Range

-40°C to 50°C as standard. (All motors are not suitable for starting at temperatures lower than -20°C.) Fans that include BT or CT motors can be continuously operated at temperatures up to 70°C. When these fans are operating in excess of 50°C they should be run at full speed only. Other fans can be operated up to 70°C with appropriate deration of motors. Most standard 3ϕ fans can be offered for a one off emergency operation at 200°C for 2 hours.

Casings

JM 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.

Accessories

Silencers, Mounting feet, Vibration isolators, Matching flanges, Flexible connectors, Air operated non return dampers, Guards, Bell mouth inlets. Electronic and transformer type speed controllers and frequency inverters.

ATEX

Standards available contact your local Express Distributor for more details. See section 5.3.

FläktWoods