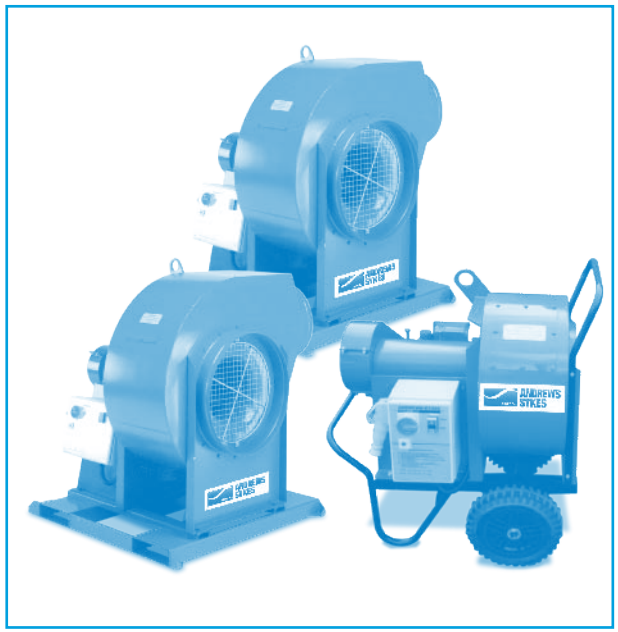
FV300/600/900

Ventilation & Extraction Fans



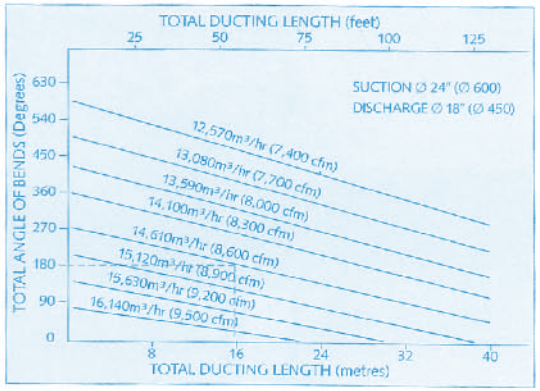
Operating Instructions & Safety Guide

ANDREWS AIR CONDITIONING

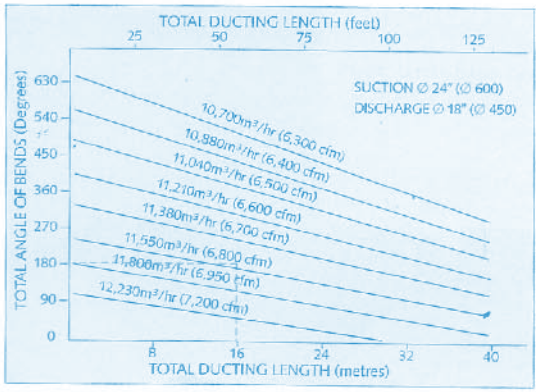
- Heavy duty high pressure centrifugal fans
- Rugged robust construction
- Choice of sizes 1,000 cfm to 10,000 cfm
- Design and manufacture Quality Assured to BS5750 (Part 1).
- Ideal for long ducting runs.
- Flexible and simple to operate
- Choice of voltages.
- Weatherproof electrics (IP 56).
- Handles heavy dust laden air.
- Indirect belt drive on larger models
- Fan motor is out of main air stream
- Fitted with inlet and outlet guards
- Ideal for a wide variety of applications e.g. construction sites, factories and building refurbishment
- Can be ducted on inlet or exhaust
- Larger models fitted with heavy duty circuit breakers.
- Safety lock on control panels
- Short or long term hire
- Competitive rates.

The following charts are intended as a guide only, all figures are approximate.

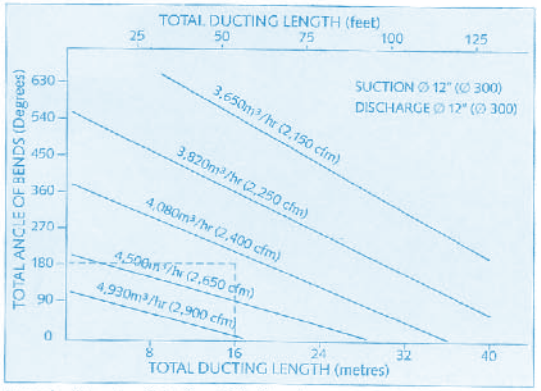
FV900



FV600



FV300



Example: 16 metres of ducting, 180° of bends
FV900 = 14,600 m³/hr: FV600 = 11,500m³/hr: FV300 = 4,200m³/hr

Operating Instructions - FV300/600/900

Health and safety at work act 1974

Under section 6 of the above Act, it is the duty of the manufacturers and suppliers of the products for use at work to ensure, so far it is reasonably practicable, that such products are safe without risk to health when properly used and to make available to users of such products adequate information about their safe and proper operation.

Fans should only be used in the manner and purpose for which they were intended, and in accordance with the recommendations detailed in this leaflet. Our fans have been designed, produced and inspected with safety in mind, but there are certain basic precautions which should be taken by the user and in particular attention is drawn to the safety precaution in this leaflet.

It is imperative, therefore, that persons who may make use of our fans have all the information and instructions they require to ensure that they are fully aware of any hazards, and that they know both the purpose and the correct manner of the use of our fans.

General Safety

- Keep children and animals away from air conditioning units. Never leave them alone in a room where the units in use.
- This equipment should only be used by a competent person who has read and understood these instructions.
- Never operate this equipment if you are ill, feeling tired or under the influence of alcohol or drugs.
- Never put anything on top of the unit or block the air outlets.
- Make sure equipment is switched off and unplugged after use. Never leave switched on or unattended.
- Check condition of equipment before use. If unit is showing signs of damage contact your supplier immediately.
- Secure ducting around bends on suction line to prevent collapsing.
- Secure duct connections to prevent leakage
- Use inlet guards where there is a chance litter may be drawn into ducting
- Duct outlets should not be sited at head height to prevent injury from air borne particles.
- Maintain standard duct sizes where possible except when using multiple inlet/outlets.
- Very long duct runs will not overload rand, however, the performance will be further reduced.
- After equipment has been used for dust extraction, ducting MUST be cleaned prior to use on clean air ventilation or site heating appliances.
- Fan noise can be reduced by fitting ducting to both inlet and outlet spigots.
- In all cases air line or trunking should be introduced at or extend to the bottom of the vessel to ensure removal of heavy gas or vapour and ensure an effective circulation of air.
- Where fans are used for supplying clean air, ensure duct inlets are sited away from polluted area.

Warnings

- Do not attempt to use this equipment before the following instructions are read and fully understood.
- Do not operate this equipment with missing, damaged, insecure guards or electrical components.
- Ensure equipment is sited on firm level ground.
- Ensure electrical supplies are of adequate capacity.
- Electrical installations must comply to current IEE regulations.
- The user must not undertake any service or repair of equipment.
- Ensure material exhausted through the outlet are deposited safely at ground level into a suitable container.
- Ensure inlet ducting is positioned as to prevent the entry of loose material.

General Installation

- Site the fans on firm level ground, safe from interference.
- Use only heavy duty ducting, on fan applications.
- Keep inlet and outlet duct work as straight and short as possible for maximum efficiency. Refer to data plate for maximum duct lengths.
- The fans are suitable for ventilation and extraction of NON flammable/explosive fumes and dust loads. (FV900 explosive proof fans available on request)

IF IN ANY DOUBT CONCERNING APPLICATION / INSTALLATION CONSULT YOUR SUPPLIER

Models FV900 & FV600

Are skid mounted, they have fork life handling point, and a central lifting point (Load Tested).

Model FV300

Is trolley mounted and is equipped with a central lifting point (Load Tested).

Electrical Supply

- All electrical installations must comply with current IEE regulations
- It is recommended that electrical supplies are protected by a RCD (residual current devise).

Models FV900 & FV600

These models require 3ph 415V + Earth 50Hz electrical supply terminated via a 16 amp BS54343 appliance inlet. THE CORRECT PHASE ROTATION MUST BE OBSERVED, ENSURE THE FAN IS ROTATING IN THE DIRECTION INDICATED.

- They have 3ph Star / Delta starters to reduce starting currents. Refer to data plate

For electrical specification. If electrical supplies are via generators the FV900 requires a 35 kVA; FV600 20kVA Generator.

Model FV300

Requires a 1ph 110V + earth 50 Hz electrical supply terminated via a 110V 32 Amp appliance inlet. Refer to data plate for electrical specification. If the supply is via a transformer it needs to be a 5kva rated minimum.

Operating Instructions

FV900 - FV600 - FV300

- Connect to electrical supply.
- Ensure isolator switch on the Control Panel is in the 'ON' position.
- To Start Press 'START' Button 1 (GREEN)
- To Stop Press 'STOP' Button 0 (RED)

Please Note

These fans will take 30 Sec. to attain full working speed