The all new Mini Mixed Flow Roof Fan has been especially designed for high pressure, low volume supply or extract ventilation systems, with either rigid or flexible ducting. The ACR range of fans allows the installer greater flexibility of design, when considering access to the fan for maintenance or restricted void space. Suitable for flat horizontal roofs as standard, the ACR unit can be installed on shallow pitched roofs (20° max.) but will require additional weathering of the mounting plate when fixed to the upstand by the installer.

The ACR range of fans may be used for supply or extract ventilation systems by re-orienting the fan section in either its supply or extract mode before installation, with the added benefit of a filterless venting system design, when considering access to the fan for maintenance or restricted void space. Suitable for flat horizontal roofs as standard, the ACR unit can be installed on shallow pitched roofs (20° max.) but will require additional weathering of the mounting plate when fixed to the upstand by the installer.

Available in 4 Sizes.
Optional airflow direction, two speed motor as standard.
Motors protected to IIP44.
Fully speed controllable.
Easy accessible IP55 rated terminal box with 20mm entry.
Compact external rotor motor with Thermal Overload Protection.
Suitable for external use.
The casing is protected by a tough UV stabilized two coat primer and an epoxy polyester black finish.
Supplied complete with roof plate.
2 Year Guarantee.

Electronic Controller - Surface mounting. Mini Mixed Flow Roof Fans are suitable for speed control (on the high speed tapping only) using a Vent-Axia 2.5 amp electronic speed controller. Provides infinitely variable speed control and features an O/C/O sensor slider with a neon indicator. There is an adjustable minimum speed setting. The controller is radio suppressed to BS 800 and electrical connections for use with suitable remote sensors are provided. (86 H x 156 W x 53 D).

Stock Reference. No. W103 03 102M

Timers

Time samples Controller Adjustable timer with overrun facility for fans ventilating W.C.'s and other small rooms. 5-25 minute adjustment (to comply with Building regulations).

Stock Ref. No. MNI 35 19

Ambient Response Humidistat Self-programming electronic O/C/O wall mounted humidity sensor. Reacts to any rapid increase in humidity and temperature by switching a Vent-Axia fan 'On' for rapid removal of moisture laden air. Can be wired into controller 'Auto' mode connections. Night-time RH increment setback feature suppresses nuisance tripping when the humidity level gradually rises as the temperature falls. Pullcord override and neon indicator. Changeover relay switch. 30%-90%RH operating range. Ambient operating temperature +5°C to +40°C.

Stock Ref. No. MNI 36 50

Ectronic Humidistat An adjustable set point, solid state O/C/O sensor. A pullcord provides manual override, indicated by lamp. Adjustable from 65 to 90%RH. Can be wired into controller Auto mode connections.

Stock Ref. No. MNI 36 32

Visionex PIR A wall or ceiling mounted movement detector for use with any domestic Vent-Axia mains voltage product. Adjustable timer overrun (5-25 minutes).

Stock Ref. No. MNI 45 07 26

Guardian PIR

Stock Ref. No. MNI 36 34 48

Continuousy monitors an area and activates when a moving body is detected. Adjustable over-run timers (1-20 minutes).

MINI MIXED FLOW ROOF FANS

VENT-AXIA MINI MIXED FLOW ROOF FANS

(ACR)

Controllers

REMOTE SENSORS

ACCESSORIES

Table: MINI MIXED FLOW ROOF FANS PERFORMANCE GUIDE

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L - LOW SPEED  H - HIGH SPEED

P.L.C. = FULL LOAD CURRENT

Electric Heater Controller available, see pages 386-387.

MINI MIXED FLOW ROOF FANS

VENT-AXIA
MINI MIXED FLOW ROOF FANS
SOUND LEVEL DATA

Sound Power Level Spectra dB (re 10^-12Watts)

<table>
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<th>Type</th>
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<th>2k</th>
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VENT AXIA
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SOUND LEVEL DATA

B A

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DIMENSIONS

VENT AXIA
MINI MIXED FLOW ROOF FANS
WIRING DIAGRAMS

MINI MIXED FLOW ROOF FANS
WIRING DIAGRAMS

SINGLE PHASE FAN CONNECTED TO A D.O.L. STARTER

240 Volt D.O.L. Starter
A suitable sized overload relay must be fitted to provide motor protection.
N.B. Links between terminals 1 to 4, 3 to 6, 5 to 9 and 24 to 96 must be fitted.
CONNECT TO EITHER
Hi = HIGH SPEED
Lo = LOW SPEED
Note: Do not connect the Hi and Lo terminals simultaneously.
This will cause damage to the motor.

SINGLE PHASE FAN CONNECTED TO A 2.5 AMP ELECTRONIC
SPEED CONTROLLER

2.5 amp Electronic Speed Controller
W103 03 102M

SINGLE PHASE FAN CONNECTED TO AN EXTERNAL SENSOR, WIRED FOR TWO SPEED OPERATION.

Switched Fused Spur

SINGLE PHASE FAN CONNECTED TO AN OVER-RUN TIME.

Switched Fused Spur

Note: Do not connect the Hi and Lo terminals simultaneously.
This will cause damage to the motor.

Note: Do not connect the Hi and Lo terminals simultaneously.
This will cause damage to the motor.

DIMENSIONS