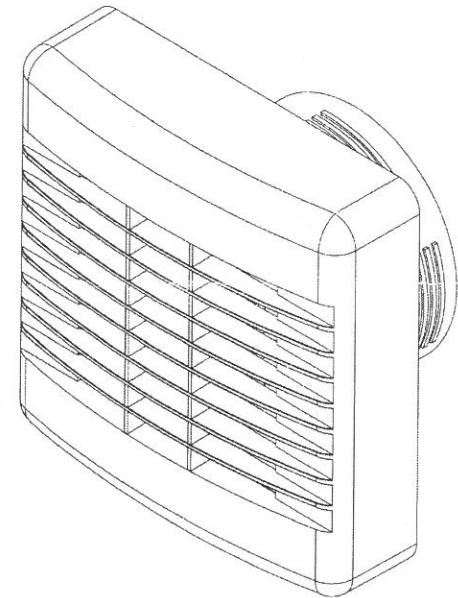




M & MA Series Axial Fan Range

Installation and Wiring Instructions

M100SA
M100TA
M100PCA
M100HTA
MA100SA
MA100TA
MA100PCA
MA100HTA
M150SA
M150TA
M150PCA
M150HTA
MA150SA
MA150TA
MA150PCA
MA150HTA



PLEASE READ INSTRUCTIONS IN CONJUNCTION WITH ILLUSTRATIONS. PLEASE SAVE THESE INSTRUCTIONS.



Installation and Wiring Instructions for the M & MA Range of axial fans.



**IMPORTANT:
READ THESE INSTRUCTIONS
BEFORE COMMENCING THE
INSTALLATION**

DO NOT install this product in areas where the following may be present or occur:

- Excessive oil or a grease laden atmosphere.
- Corrosive or flammable gases, liquids or vapours.
- Ambient temperatures higher than 40°C or less than -5°C.
- Possible obstructions which would hinder the access or removal of the Fan.

SAFETY AND GUIDANCE NOTES

- A. All wiring to be in accordance with the current I.E.E. Regulations, or the appropriate standards of your country and **MUST** be installed by a suitably qualified person.
- B. The fan should be provided with a local isolator switch capable of disconnecting all poles, having a contact separation of at least 3mm.
- C. Ensure that the mains supply (Voltage, Frequency, and Phase) complies with the rating label.
- D. The fan should only be used in conjunction with the appropriate Monsoon products.
- E. It is recommended that the connection to the fan connector terminals is made with flexible cable.
- F. When the fan is used to remove air from a room containing a fuel-burning appliance, ensure that the air replacement is adequate for both the fan and the fuel-burning appliance.
- G. The fan should not be used where it is liable to be subject to direct water spray for prolonged periods of time.
- H. Where ducted fans are used to handle moisture-laden air, a condensation trap should be fitted. Horizontal ducts should be arranged to slope slightly downwards away from the fan.
- I. This appliance is not intended for use by young children or infirm persons without supervision.
- J. Young children should be supervised to ensure that they do not play with the appliance.

DESCRIPTION

The M & MA range of 100mm extract fans for domestic bathrooms and 150mm kitchen extract fans are available as wall or panel mounted models.

A. INSTALLATION

WHERE TO FIT

A short circuit of the airflow should always be avoided by positioning the fan as far away as possible from and opposite to the main source of air replacement. Fig. 1.

M100HTA, M150HTA and MA100HTA, MA150HTA. These models are fitted with automatic electronic humidity sensing. The humidity sensor needs free air circulation so do not site close to cupboards, etc. Do not site above a radiator or other heat source.

PANEL/CEILING MOUNTING

IMPORTANT: The fan should be installed into a closed duct system or protected by an exterior air grille.

1. Either cut a 105mm diameter hole for 100mm fans, or a 155mm diameter hole for 150mm fans in the fixing surface.
2. Remove the grille by loosening the screw at the bottom of the grille.
3. Mark the screw centres through the holes in the fan back plate. Drill, plug and screw into position.
4. Replace grille and tighten the screw.

WALL MOUNTING (Wall kit not supplied)

1. Either cut a 115mm diameter hole for 100mm fans, or a 170mm diameter hole for 150mm fans through the wall and insert the wall sleeve with the large diameter sleeve on the room side. Slope the sleeve slightly downwards away from the fan. Cement both ends into position flush with the wall faces.
2. Remove the grille by loosening the screw at the bottom of the grille.
3. Mark the screw centres on the wall through the holes of the fan back plate. Drill plug and screw into position.
4. Repeat for the external grille sub-frame. Fix exterior grille into position with the louvres positioned downwards.

AFTER INSTALLATION ENSURE IMPELLER ROTATES FREELY



WARNING: THE FAN AND ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING THE INSTALLATION / OR MAINTENANCE.

B. WIRING.

IMPORTANT: There are two methods of cable entry to the fan. If the side cable entry option is used, ensure the supplied grommet is used and maintains a good seal to prevent water ingress.
The M & MA fans are suitable for connection to 220-240V/1/50Hz supply. It is class II double insulated and **MUST NOT** be earthed.

1. Select and follow the appropriate wiring diagram. (Fig. 2, 3 or 4)
2. Check all connections have been made correctly and ensure all terminal connections and cable clamps are securely fastened.
3. Ensure the impeller rotates and is free from obstructions.

C. SETUP

TIMER ADJUSTMENT (M100TA, M150TA, M100HTA, M150HTA, MA100TA, MA150TA, MA100HTA & MA150HTA)

BEFORE ADJUSTING THE TIMER, SWITCH OFF THE MAINS SUPPLY. TIMER SHOULD ONLY BE ADJUSTED BEFORE OR DURING INSTALLATION.

1. Remove the fan grille. The controller is factory set at 15 minutes approx. The overrun time period can be adjusted from 3-25 minutes by altering the adjuster on the control PCB.
2. To **REDUCE** the operating time, use a small screwdriver to turn the adjuster **ANTI-CLOCKWISE**.
3. To **INCREASE** the operating time, use a small screwdriver to turn the adjuster **CLOCKWISE**.
4. Replace the fan grille.

HUMIDITY SET-POINT ADJUSTMENT

BEFORE ADJUSTING THE CONTROLLER, SWITCH OFF THE MAINS SUPPLY. HUMIDISTAT SHOULD ONLY BE ADJUSTED BEFORE OR DURING INSTALLATION.

1. Remove the fan grille. The controller is factory set to switch on at about 70% RH. The humidity set point can be adjusted from 40-95%RH by altering the adjuster on the control PCB.
2. To LOWER the set-point use a small screwdriver to turn the adjuster **ANTI-CLOCKWISE**. This makes the controller MORE sensitive.
3. To RAISE the set-point use a small screwdriver to turn the adjuster **CLOCKWISE**. This makes the controller LESS sensitive.
4. Replace the fan grille.

IMPORTANT: Upon installation it is possible that the humidity controller will make the fan run continuously until it has acclimatised to the environment. As part of the installation process it is important to set/adjust the humidity sensitivity to the desired position. The controller is already factory set to switch on at about 70% R.H.

SHUTTER OPERATION

The shutter mechanism in all "MA" model fans will open approximately one minute after the fan is turned on. The shutter will close about a minute after the fan is switched off.

PULLCORD OPERATION (M100PCA, M150PCA, MA100PCA & MA150PCA)

The PULLCORD will activate the fan when switched. When the PULLCORD is switched into the off position, After which the fan will return to the Auto sensing mode. The LED will only activate if the PULLCORD is in the ON position.

LED OPERATION

The LED will activate whenever the LS or PULLCORD is activated. The LED will switch off if the fan is running in Timer overrun or Humidity mode (if applicable).

D. SERVICING AND MAINTENANCE.

1. At intervals appropriate to the installation, the fan should be inspected and cleaned to ensure there is no build up of dirt or other deposits.
2. Wipe the inlets and front face with a damp cloth until clean.

The fan has sealed for life bearings, which do not require lubrication

Fig. 1

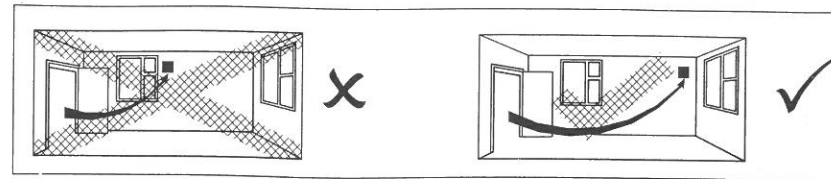


Fig. 2 :
M100SA
MA100SA
M150SA
MA150SA

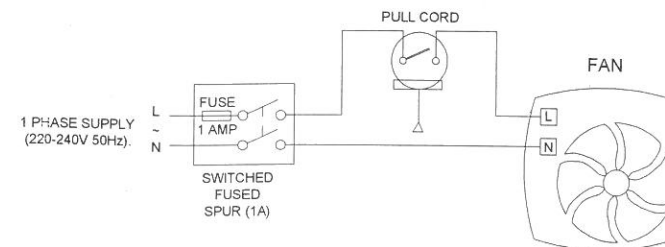


Fig. 3 :
M100PCA
MA100PCA
M150PCA
MA150PCA

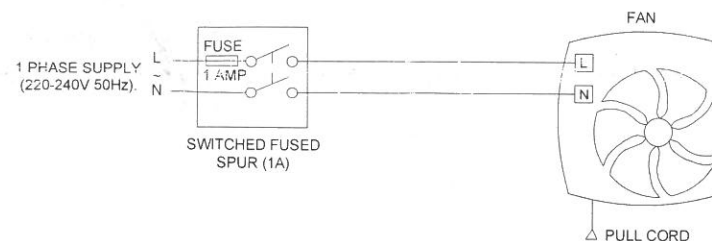


Fig. 4 :
M100TA,
M100HTA
MA100TA
MA100HTA
M150TA
M150HTA
MA150TA
MA150HTA

