

Timer and Humidity Adjustment

First, isolate the Power supply then remove the front cover of the fan. Adjustment is made using a fine tipped screwdriver on the appropriate adjuster potentiometer situated under the control board cover.

Turn the timer adjuster to will increase the period of Overrun time. The Humidity adjuster is separate from the timer adjuster and turning this will increase the sensitivity level at which the fan will automatically switch on when it senses humidity. The approximate ranges of the adjusters are 2 to 30 minutes for the overrun timer and 50% to 90% for the humidity setting.

Condensation/humidity controls are designed to switch an extractor fan on when the room humidity exceeds a pre-set level. In order to achieve this humid air must invade the sensor housing. This process can take some time and when the room is in use this delay may cause some concern, also the sensor cannot detect smells or smoke. Therefore, we recommend that fans with humidity controls should be wired up with manual (switch live) operation.

MAINTENANCE

Isolate from Power Supply before commencing work.

TRANSFORMER

Maintenance free but the outer cover may be cleaned with damp cloth.

FAN

The outside of the unit may be wiped clean with a damp cloth. Once a year the front cover should be removed and the inside dusted with a soft brush.

Transformer
INPUT 230v AC~50Hz 20W
OUTPUT 12v AC~42VA
Fan Unit
INPUT 12v AC~50Hz



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WARNING: Failure to comply with these instructions may invalidate the warranty. If room is fitted with an unbalanced gas appliance, ensure that there is enough replacement air for both gas appliance and extract fan.

CAUTION: Fans incorporating electronic control systems may be damaged if used in conjunction with fluorescent lamps.

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ES100 100mm AXIAL FAN WITH AUTOMATIC SHUTTERS SELV LOW VOLTAGE FANS



Installation and Operation Instructions

FERR+B
ENVIRONMENTAL SYSTEMS

LOW VOLTAGE AXIAL FANS WITH SHUTTERS

These axial fans are designed for use within bath/shower areas. They are fitted with long life 12V AC~motors. The low voltage supply is from a 230V AC~/12V AC~ Transformer assembly constructed to BS 3535.

UAX- ES100 LOW VOLTAGE PRODUCT CODES	
UAX-ES100LV	Wall/Ceiling Model - Standard
UAX-ES100LVT	Wall/Ceiling Model with Adjustable Timer
UAX-ES100LVHTS	Wall/Ceiling Model with Humidistat and Timer
NOTE: TO CONVERT AND INSTALL THE ABOVE MODELS AS WINDOW FANS, WINDOW FIXING KITS WILL BE REQUIRED	

INSTALLATION INFORMATION

WARNING : ISOLATE ELECTRICITY SUPPLY BEFORE COMMENCING WORK

Positioning the Fan unit

The fan may be positioned on a wall, ceiling or window. The fan should be sited as high as possible in the room. If fitting in a shower cubicle or over a bath with a shower it must be positioned above the shower head. Model UAX-ES100LVHTS must be positioned in a splash-free area as the humidity sensor will be damaged if in direct contact with water. To ensure efficient ventilation it is advisable that the fan unit be fitted as far from the main source of replacement air as possible (eg the door). We advise that there be a 15mm. gap under the door to allow replacement air to enter the room if no other means is provided.

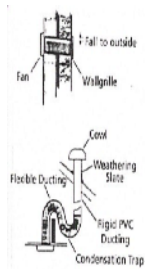
POSTIONING THE TRANSFORMER

The transformer must not be positioned within 1.5 metres of a bath or shower. The wiring length between the fan and transformer should be kept as short as possible (should not exceed 9 metres). The transformer should be positioned as high on the wall or ceiling as possible if in the same room as the fan. It is normal for the transformer to get warm when operating, therefore, it is important that air is allowed to circulate around it. The transformer should not be installed in small enclosed spaces. Access must be allowed for servicing and timer adjustment. If installing transformer in roof space it must not be covered with insulation material.

DUCTING

Wherever possible ducting should be of rigid type, flexible duct should only be used for connections. To ensure efficiency keep all ducting runs as short as possible. If ducting is installed in a roof space it should be lagged to reduce condensation within the duct. Horizontal duct should run downwards towards the outside to allow for condensation drainage. Vertical discharge ducting should be fitted with a condensation trap.

The fan unit uses 100mm duct. Total duct length should not exceed 2 metres. We Recommend a fixed louver grille be used with these fans . Non-return grille may be used but will reduce the fan performance.



FITTING THE WALL FAN

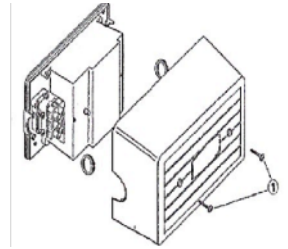
1. Select a suitable position for the fan in relation to outside wall, ceilings and roofs, keeping the ducting as short as possible - See ducting.
2. Cut a hole in the wall or ceiling to take rear spigot of fan plus ducting if fitted. Drill and plug the fixing holes.
3. Remove the front fan casing and take it off.
4. Fasten the fan back plate to the surface. Make sure that the fan is the right way up.

DUCTING

1. Bring the ducting to the chosen location and trim its ends flush to the surfaces.
2. Note that there are three basic types of installation and that condensation drainage should be provided as shown. Ceiling location makes drainage provision essential.
3. A small condensation trap should be made at the lowest point of the ducting as shown. It is advisable to lag duct.

TRANSFORMER INSTALLATION

1. Remove front cover retaining screws.
2. If using rear entry cabling remove knock-outs.
3. If using surface cabling cut suitable hole in sealing grommits.
4. Using the transformer base as a template mark fixing hole and cable entry positions.
5. Once cabling and resurfacing is complete drill and plug fixing holes.
6. Fit the transformer into position and make power connections as detailed.
7. Re-fit front cover.



WIRING INSTALLATION

WARNING: isolate from Power Supply before commencing work

WIRING REQUIREMENTS FOR DOMESTIC ELECTRIC FANS

It is recommended that fans be connected into the lighting circuit, with double pole (3mm) isolation provided before the room light switch and suitably fused, in accordance with IEE Regulations.

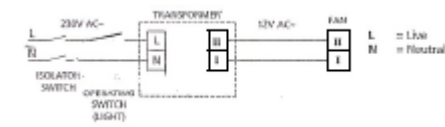
Window Fans should be connected to power supply using a flexible cord with conductors of between 0.75 and 1.5mm² only.

Wall and ceiling mounted fans for fixed wiring should be connected to the power supply via a cable with solid conductors of 1mm² to 1.5mm² only.

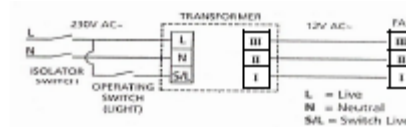
WIRING INSTRUCTIONS

WARNING: Isolate Power Supply before commencing work

UAX-ES100LV – STANDARD MODEL



UAX-ES100LVT & UAX-ES100LVHTS – HUMIDISTAT & TIMER MODEL



IF IN DOUBT, PLEASE CONSULT A QUALIFIED ELECTRICIAN