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Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended. This data sheet produced on 14 Oct 2016 15:12 using software version 3.3.19.1041 - 7-October-2016

Technical Data

XS - Window Mounted Extract Fan

Window Mounted Axial - Supply or Extract Fan Code: XS9GL
Installation Manual Links: 671050

Nominal Fan Speed: 4 Pole 1,400 RPM Electrical Supply: 230 V 1 Phase 50 Hz

Motor Rating: 0.05 kW
Motor Current: flc: 0.24 A
Motor Current: sc: 0.72 A

Max. Operating Temp.: 60°C

Sound Data

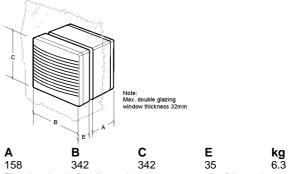
Inlet Noise (dBA): 41 dBA @ 3m Outlet Noise (dBA): 40 dBA @ 3m Sound Power Levels re 1 pWatts (Hz):

Hz 63 125 250 500 1k 2k Open Inlet 47 64 55 52 57 56 53 44 Open Outlet 46 61 57 53 55 56 51 Please note that the noise data stated on this data sheet for the unit and/or silencer is tested in accordance with UK, European and International industry laboratory standards. However onsite conditions may vary and we would recommend that this information is verified by an acoustic specialist in order to ensure its suitability for the intended application.

Specification

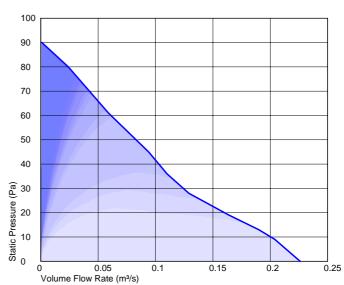
Window mounted extract fan manufactured from ABS material. The fan is to have an externally weather louvre and a thermally actuated anti-backdraught shutter at the rear of the fan and the impeller at the front. The fans are controlled via a full range of integral sensors matched to an external remote controller providing on/off, extract, variable / fixed economy speed, auto / manual functions.

Fan Dimensions



The drawing is for dimensional purposes only. Dimensions in mm.

Performance Curve



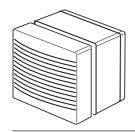


Additional Supporting Documentation

The following pages contain these additional supporting documents:

24. 03. 15. Leaflet Number 671050XS Window Fan Kits Supply/Extract Units Installation and Maintenance

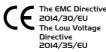




XS Window Fan Kits

Supply/Extract Units

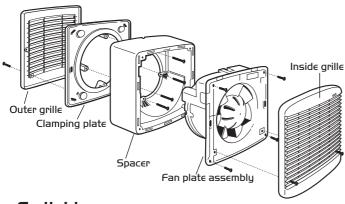
Installation and Maintenance



Introduction

The Nuaire XS Window Fan Kit is available in 6, 9 and 12 inch impeller sizes suitable for supply or extract and can be the heart of a room's automatic ventilation system. Ensure adequate air replacement for the fan and any fuel burning appliance in the room.

Fig I Main components of Window installation assembly.



Switching

Operated via a separately wired 3 amp fused spur (by others) or operated via the optional XS-MFC remote controller allowing supply or extract, variable speed and automatic or manual switching of several fans if desired.

Sensors

Sensors are available as remote units or integral 'plug in' units. They are able to control multiple fans, depending on sensor and fan types. Integral sensors are quick and easy to install and are aesthetically pleasing, whilst remote sensors give the benefit of location close to the pollutant source.

Remote sensors can be fitted with an optional security strap to prevent unwanted tampering.

General

The removable interior grille provides easu access while the external rotor motor makes for simple removal of the push-on impeller for cleaning. Upward angled interior grille vanes shield workings from view and downward sloping external vanes throw off rain. The fan is IP24 splash proof approved with the motor rated at IP44.

All external components are made in soft grey colours from ultra violet stable ABS material so they will blend with most decors and will not fade in sunlight.

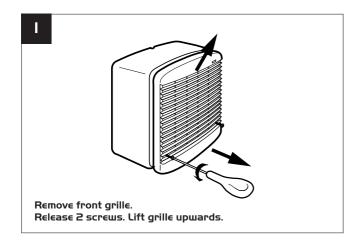
Coding for Window Fan Kits

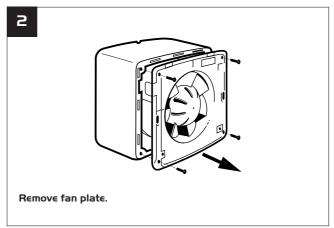
Description	Cod∈
6 inch Window Fan kit complete	XS6GL
9 inch Window Fan kit complete	XS9GL
12 inch Window Fan kit complete	XSI2GL

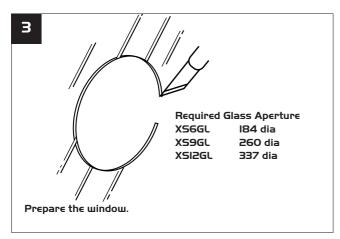
Window Fan Kits are supplied as a complete package with all window installation parts included and are suitable for glazing thickness of up to 32mm and wall/panels of 360mm.

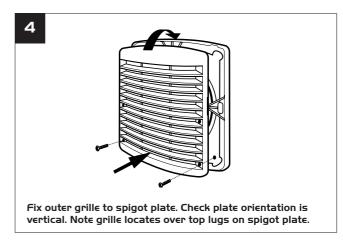
Dimensions Fig 2. Front view XS6GL (6 inch) XS9GL (9 inch) XSI2GL (I2 inch) 420mm 342mm 272mm 269mm 342mm 420mm Rear vieu Aperture required Aperture required Aperture required 337mm dia. 184mm dia. 260mm dia Cable entru Cable entry Cable entry 175mm 214 mm³ 137 mm* *To centre of *To centre of *To centre of 'duct' 'duct' 'duct' 134 mm* 206 mm* 269 mm 337 mm 413mm Side view

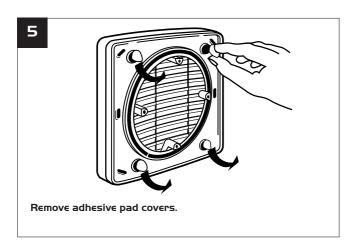
Installation of Window Fan kits

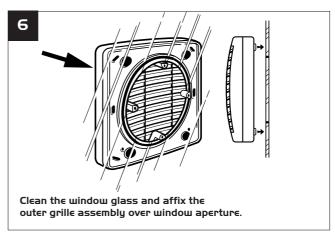


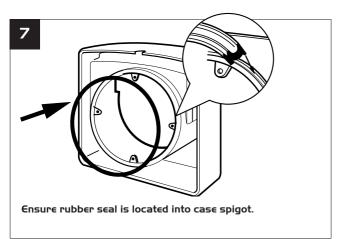


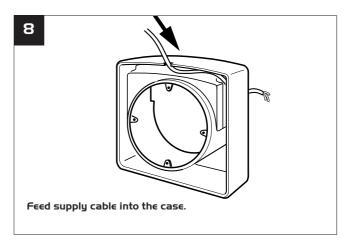




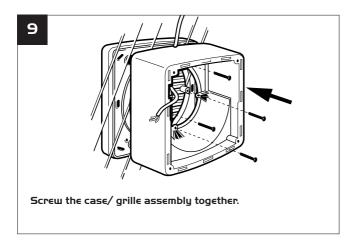


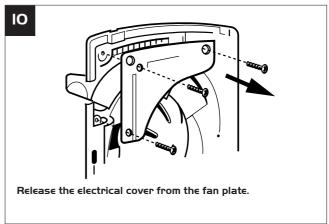


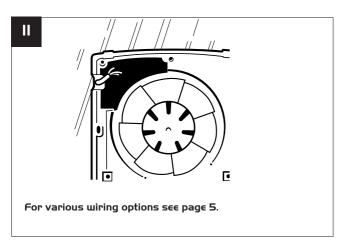


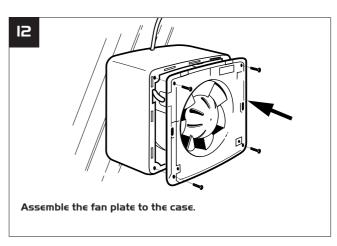


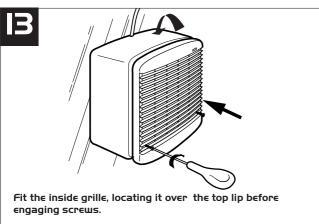
Installation of Window Fan

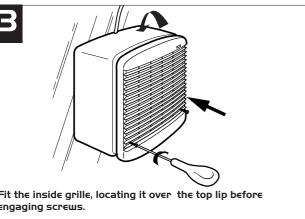










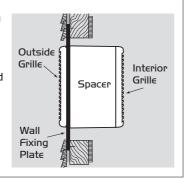


Fitting Ancillaries (Also see page 8)

Thin wall installation

The diagram shows the unit installed in a timber

A Wall Fixing Plate is used to support the fan assembly and the installation is similar to that for a window.



IMPORTANT

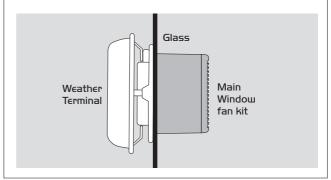
(Shutter Operation XS fans) There will be a short delay on startup and shutdown of approximately 40 seconds. This is normal.

Fitting Ancillaries (Also see page 8)

Weather Terminal

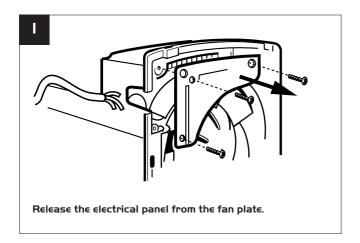
The optional Weather Terminal is offered for use in exposed site conditions.

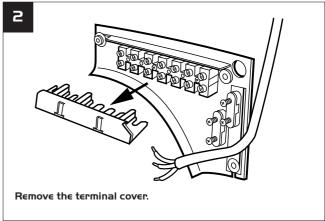
The illustration shows the Weather Terminal installed replacing the Outside Grille assembly. Terminal is held in position using the same fixings as the Outside Grille assembly. The base of the Terminal incorporates a foam strip which is designed to adhere to the glass surface assisting fitting and also as a seal for the joint when assembled together with the fan unit.

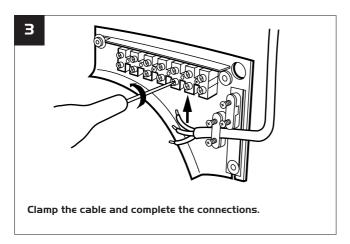


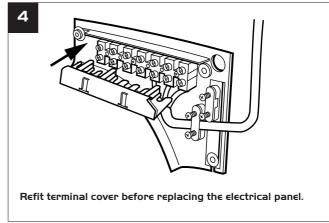
Electrical Installation

Electrical work should be undertaken by a qualified electrician in accordance with the wiring regulations.



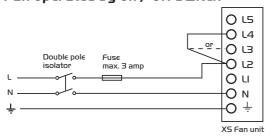






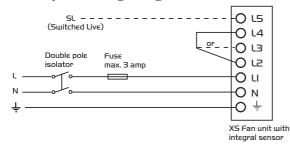
Wiring

Fan operated by on / off switch



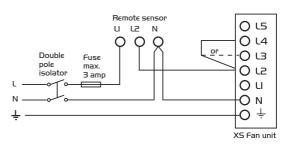
Connect link wire between L2 & L4 for extract or Connect link wire between L2 & L3 for supply.

Fan operated by integral sensor



Connect link wire between L2 & L4 for extract or Connect link wire between L2 & L3 for supply. Connect switched live signal to L5 for integral timer module.

Basic fan operated by remote sensor



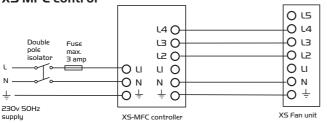
Connect link wire between L2 & L4 for extract or Connect link wire between L2 & L3 for supply.

IMPORTANT

Isolation - Before commencing work make sure that the unit is electrically isolated from the mains supply.

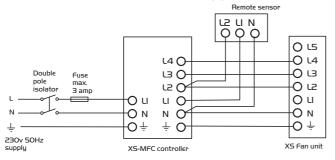
Electrical Wiring cont.

Supply / Extract fan operated via remote XS-MFC control



Remote switch may be set: On/Off, Forward/Reverse, Economy/Std. (variable speed), Auto/Manual.

Supply / Extract fan operated via remote XS-MFC control & Remote Sensor(s)

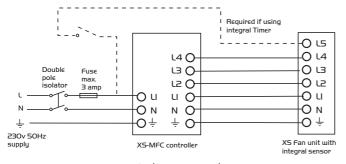


Remote switch may be set: On/Off, Forward/Reverse, Economy/Std. (variable speed), Auto/Manual.

One or more Remote Sensors may be wired in parallel to one XS-MFC Control.

Humidity Sensor: XS-HR, Air Quality Sensor: X S-AQR Passive Infra Red Sensor: XS-PIRR.

Supply / Extract fan operated via remote XS-MFC control and Integral Sensor



Remote switch may be set: On/Off, Forward/Reverse, Ecnomy/Std. (variable speed), Auto/Manual.

Maximum one Integral Sensor per fan 6/9/I2 denotes unit size identity Humidity Sensor: XS-H6/9/I2, Air Quality Sensor: XS-AQ6/9/I2. Passive Infra Red Sensor: XS-PIR6/9/I2, Temperature Sensor: XS-TH6/9/I2

Run on Timer: XS-TA6/9/I2.

A single sensor will switch all fans if more than one fan is being operated by a single XS-MFC controller.

NOTE: Multi-fan options:

Up to 5 fans (size 6"/9") can be controlled by one XS-MFC. Up to 2 fans (size I2") can be controlled by one XS-MFC. Do not mix different fan sizes on the same controller.

IMPORTANT

(Shutter Operation XS fans)
There will be a short delay on startup and shutdown of approximately 40 seconds. This is normal.

XS6GL Consumption and weight

Mod∈l	Input Power Watts		W∈ight kg	
	Max.	Economy		
XS6GL supply + extract	38	20	4.1	

Note figures are for extract only.

Electrical Specification

230V ~ 50Hz Class I. Motor thermally protected by overload device. Cable: Imm max. or min. Fuse: 3 amp (if fan is supplied from a 5A lighting circuit, no local fuse is required).

XS9GL Consumption and weight

Model	Input Power Watts		Weight kg
	Max.	Economy	
XS9GL supply + extract	50	37	5.7

Note figures are for extract only

Electrical Specification

230V ~ 50Hz Class I. Motor thermally protected by overload device. Cable: Imm max. or min. Fuse: 3 amp (if fan is supplied from a 5A lighting circuit, no local fuse is required).

XSI2GL Consumption and weight

Model	Input Power Watts		Weight kg
	Max.	Economy	
XSI2GL supply + extract	100	70	8.6
ASIEGC Supply + extract	100	/ / / /	0.0

Note figures are for extract only

Electrical Specification

230V ~ 50Hz Class I. Motor thermally protected by overload device. Cable: Imm max. or min. Fuse: 3 amp (if fan is supplied from a 5A lighting circuit, no local fuse is required).

Not∈:

Note: If 2 x I2 inch fans or 3 x 6 or 9 inch fans are used in the same operating mode in the same room they should all be controlled from the same MFC speed control. This avoids the possibility of one fan (if speed controlled at a lower flow rate) being stalled by the other fan(s).

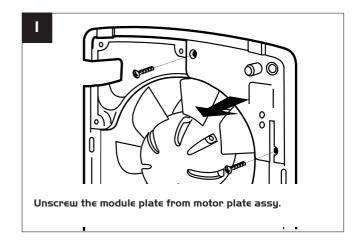
Adequate make-up air provision sufficient to provide ventilation in accordance with building regulations is required in all rooms. This should be checked during commissioning with all fans in the same room running together in all possible configurations.

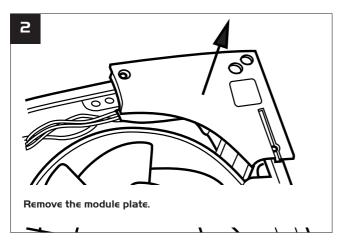
The automatic shutters, motor bearings should be frequently inspected and maintained to ensure they open fully/operate satisfactorily. Use of an RCD and fused spur with IA, Bussmann TDCI8O, BSI362, fuse (Farnell order no: II23029) for I fan or 2A, Bussmann TDCI8O, BSI362 fuse (Farnell order no: II23032) for 2 or 3 fans is recommended.

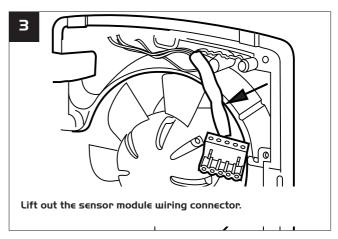
Always confirm airflow direction before commissioning.

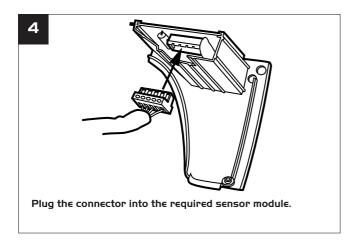
Fitting Integral Sensors (optional)

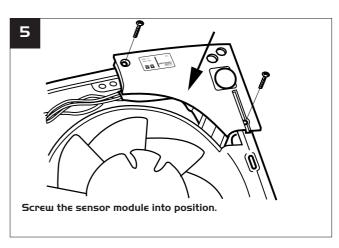
Note: Before following the pictorial sequence shown, first remove the fans front cover grille (2 screws). Release the four main corner screws and lift out the motor/fan plate assembly. Remove the electrical cover plate opposite the sensor plate. Follow the pictorial sequence on this page.

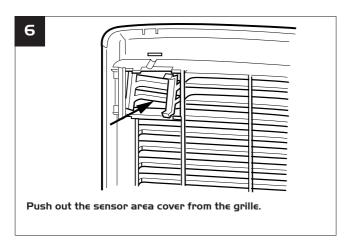


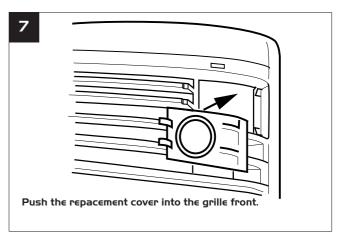












Fitting Remote Controller XS-MFC or Remote Sensors (optional)

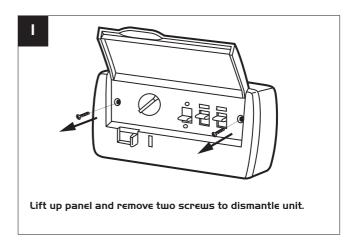
The XS-MFC Multi Fan Control provides supply or extract, variable speed and automatic or manual switching of several fans if desired, (see note below).

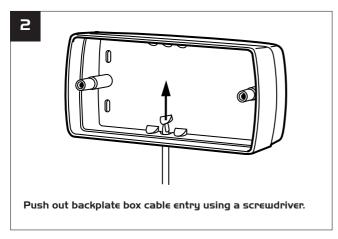
The control is best mounted approx I.5m above the floor. Remote Sensors are available for Humidity, Air Quality and Passive Infra Red control.

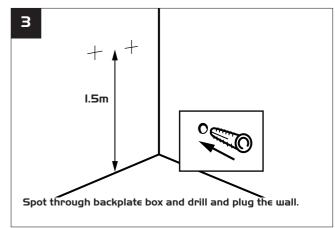
Remote Sensors should be positioned at least I.5m above the floor and away from direct heat sources ϵ .g. radiators.

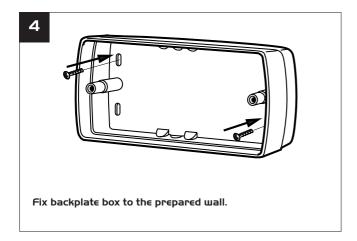
Note: Up to 5 fans (size 6 / 9 inch) can be controlled by one XS-MFC.

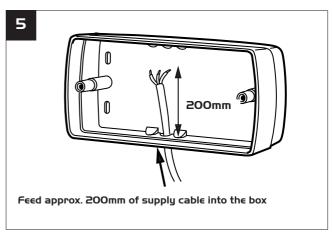
Up to 2 fans (size I2 inch) can be controlled by one XS-MFC. Do not mix different fan sizes on the same controller.

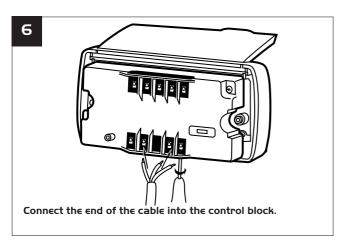


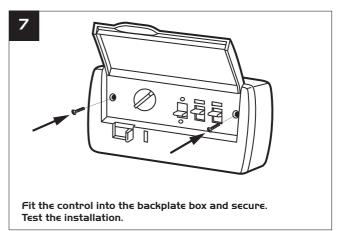












Ancillaries



The Weather terminal unit replaces

the outside grille and is supplied

with installation details.

Weather Terminal

Used for exposed site wall installations, comprising one weather terminal

Manufactured from HIPS.

Order Code XS-WT6

Dimensions: 360 x 360 x I70mm

Order Code XS-WT9

Dimensions: 425 x 425 x 180mm

Order Code XS-WTI2

Dimensions: 506 x 506 x 185mm



Wall Fixing Plate

The Wall Fixing Plate is used for thin wall and above ceiling applications, to support the Fan assembly.

Maintenance

Periodically, at least once a year, or more frequently in case of heavy use, remove the dirt and encrustation from the grille(s) fan impeller and motor casing.

Ensure the impeller is not cracked or deformed and is able to rotate freely and without oscillation. Do not use any solvents to clean this product.

Replacement of Parts

As a manufacturer Nuaire is aware that time is important. In the event of a breakdown of this equipment, it should be adequately packaged and returned to Nuaire. IMPORTANT! Please telephone Nuaire before posting your unit. We will give you a returns number to identify your package.

We will endeavour to repair or replace it within five working days of receipt. See our warranty terms.

Warranty

The 3 year warranty starts from the day of delivery and includes parts and labour for the first year.

The remaining period covers replacement parts only. This warranty is conditional on planned maintenance being undertaken.

Terms

This warranty applies to units installed and used in the United Kingdom.

The equipment will be repaired or replaced at Nuaire's cost provided that the appliance:

- I. Has been installed and used in accordance with the fitting and wiring instructions supplied with each unit.
- 2. Has not been connected to an unsuitable electrical supply. (The correct supply voltage is shown on the appliance rating label attached to the unit).
- 3. Has not been modified or repaired by persons not authorised
- 4. A unit returned to Nuaire should be suitably protectively packaged and clearly marked with the 'returns number' obtained from Nuaire prior to posting.

Service Enquiries

Nuaire can assist you in all aspects of service. Our service department will be happy to provide any assistance required, initially by telephone and If necessary arrange for an engineer to call within 48 hours if possible.

Telephone 029 2085 8400

Technical or commercial considerations may, from time to time, make it necessary to alter the design, performance and dimensions of equipment and the right is reserved to make such changes without prior notice.