GLAZINGVISION

Operation and Maintenance Manual

Xvent

Contents

Introduction

Thank you for purchasing a Glazing Vision Xvent. We hope that it gives you many years of service. The Xvent is an opening rooflight designed to vent smoke as an Automatically Opening Vent (AOV) and to provide day-to-day ventilation. The lid opens to an angle of 45° for ventilation, and to 140° when triggered by the fire alarm system.

The Xvent has been designed and tested to EN 12101-2:2003.

The product is intended to provide smoke ventilation. Also provides natural daylight, day-to-day ventilation and weather resistance. **It is not suitable for use as access.**

A variety of optional extras including a rain sensor, thermostat, remote control, and Building Management System connectivity are available.

This product is robust and long-lasting, boasting excellent thermal performance, air tightness and reliable operation.

Servicing and maintenance must only be carried out by suitably qualified personnel. Care should be taken when working on the product, avoiding accidental damage and ensuring operational reliability. The mechanisms are very powerful, **at no time should hands or arms work through the mechanisms, always work around them.** Maintenance requirements can be found within this manual and maintenance log records must be completed to ensure the unit performs as required and the warranty is not invalidated.

Should you have any queries beyond this manual please do not hesitate to contact Glazing Vision.

Safety Information

Accessing your rooflight in order to carry out routine maintenance may involve working at heights, working at an unusual angle, being in unfamiliar locations or all of these. **Before** work is commenced, stop and consider the best way to carry out the task and what hazards you might encounter.

GLAZING VISION	Let our experts carry out your routine maintenance with a maintenance contract. ☏ +44 (0)1379 658300 ✉ info@glazingvision.co.uk
(symbol)	Consider: • How you will safely access your rooflight to carry out maintenance. • Any openings, voids or unprotected edges that might pose a significant risk whilst working at height. • Using an elevated platform, cherry picker or scaffolding in preference to a ladder. • If specialist access is needed. • What personal protective safety equipment is required. • How you will transport equipment to the rooflight. • How you will work so as not to drop equipment. • Your personal capability to safely carry out the task. • Wearing suitable clothing so as not to snag or catch on things. • Impact of weather on the task, especially driving rain and high winds. **If in doubt, please contact Glazing Vision for assistance.**
(symbol)	Anticipated hazards may include: • Falls from height. • Unsafe use of ladders. • Equipment falling from height. • Slips, trips and falls. • Fragile roof areas. • Finger or clothing entrapment in mechanical or moving parts. • Working with electricity.
(symbol)	Do not attempt to repair, move or dismantle the product unless suitably competent and qualified to do so, with the appropriate safety measures in place. Any repairs and/or movement of the product may invalidate the warranty. Please seek advice from Glazing Vision.
(symbol)	Any electrical work is to be carried out by a qualified and competent electrician in accordance with Glazing Vision's wiring diagram(s).

(warning symbol) Warning

The following warnings are here to prevent personal injury and damage to the product. Please follow them explicitly.
- The product must be properly installed and commissioned in accordance with the installation manual before it is used.
- Use the product only for its intended purpose.
- Regular cleaning and maintenance must be carried out according to the guidelines described in this manual.
- Glazing Vision strongly recommends that any work is carried out by suitably qualified individuals (e.g. Glazing Vision trained personnel or contractors, or an experienced electro-mechanical service engineer).
- Do not touch the motors/mechanisms after operating the product as they may become hot.
- Do not walk or sit on the unit.
- Risk of crush and/or trapping injuries. Make sure that fingers and other obstructions are kept clear of the product and its mechanisms at all times.
- Overcurrent protection is designed to prevent damage to the product and its mechanisms. It should not be relied upon to prevent injuries.

- Do not place anything on, or cause obstruction to, the moving sections of the product as this may cause damage to the mechanisms/product and/or prevent the unit from opening/closing.
- Do not allow unauthorised persons (e.g. children) to operate the product as this may lead to personal injury or damage to the product. Do not leave children or pets unsupervised near the product – it may open/close unexpectedly (e.g. due to the rain sensor activating) and cause injury.
- Do not pull on the cables where they exit the product. Doing so may loosen connections, result in damage to the product and/or create the need for a repair visit.
- Do not leave the product open in the rain, this could damage the control board and/or mechanisms. If required, a rain sensor can be specified at the time of order.
- Should any cables or electrical components break or become damaged, have them repaired or replaced immediately. Deteriorated insulation of electrical parts or overloading may cause an electric shock or fire.

For more information or assistance please contact Glazing Vision.

Basic Operation

The Xvent has three prime positions; closed, vent open and fire open. These correspond to 0°, 45° and 140° lid openings respectively. Under normal operating conditions the Xvent will travel between the vent open and closed positions. It can be stopped in any intermediate position and will respond to the full range of input controls listed below. This means that the Xvent will not open beyond 45° under the control of the wall mount control switch.

The Xvent is fitted with an ambient air temperature sensor as standard which is part of the bezel assembly fitted to the inside edge of the product. This sensor serves as a backup to the fire alarm system. If the sensor detects ambient air temperature of 72°C (162°F) or more it will trigger fire behaviour. Fire alarm activation will also trigger fire behaviour.

Under fire conditions the Xvent will immediately respond by travelling to the fire open position (140°). This will happen regardless of the status of any of the other control devices (eg. remote control). The wall mounted control switch will illuminate intermittent green during opening to the fire position. Whilst the fire condition is held the Xvent will remain in the fire open position and will ignore all other control devices other than a "Fireman's Override" (if configured) open or close activation.

Recovery from fire alarm activation must be by manual operation using the wall mounted control switch (this is to allow somebody to walk around the building during a fire drill and check each that each individual rooflight is functioning correctly). The fire condition must be cancelled/reset first before the wall mounted switch will allow the Xvent to be closed from the fire position.

If activated from the temperature sensor, after a 180 second delay control will be returned to the wall mounted control switch, but only when the temperature is below the trigger point and the fire alarm input has been reset.

On resetting the fire alarm, if the temperature sensor has not been triggered, control is immediately returned to the wall mounted control switch.

Battery Backup

The Xvent has back up batteries housed inside its base frame. Under normal conditions the power switching device (also located inside the product base) will trickle charge the batteries which are isolated from electrical loading. Only when the incoming supply to the switching device is lost will the batteries be switched in automatically.

When operating under batteries all appropriate control inputs will be allowed to close the Xvent. Once closed, or if already closed, the Xvent will only open under fire behaviour. This is to prevent unnecessary battery drain.

Whilst running on batteries the Xvent will emit a periodic (one second every minute) audible warning to make the building occupants are aware that power has been lost. Battery operation is also indicated by a flashing red LED on the bezel fitted to the inside of the product frame. For more information, see the troubleshooting section.

Controls and Operation

Various options are available at time of order. If specific data is required for your product, please refer to your order confirmation or contact your supplier for assistance.

Control Switch

The standard operation of the unit is via the supplied wall mounted control switch and can be operated using two different methods as explained below:
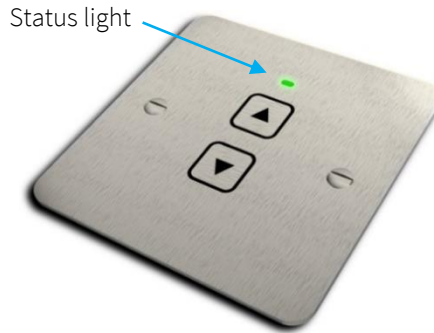
Status light

Figure 1 – Wall mounted control switch

'One touch' operation – A press of up to 5 seconds will be interpreted as one touch. Press and release the control switch once in either the up or down direction - the product will open or close fully. Partially open positions can be achieved by pressing the control switch again at any point during the open or close cycle.

Conventional 'hold' operation – Press and hold the control switch until the product has reached the desired position. Releasing the switch stops the product in that position (as long as the control switch has been pressed for more than the 5 seconds recognised as 'one touch' operation). Note that the product will stop automatically when it becomes either fully open or closed.

> ⚠ **Do not leave your product open in rain or inclement weather.** Glazing Vision cannot be held responsible for damage caused by failure to comply with this instruction.

Status Light

The status light will illuminate green if the product is functioning normally. If the status light displays another colour, please refer to the troubleshooting section of this document.

Remote Control (Optional)

The remote control unit functions in the same way as the wall mounted control switch but allows you to open and close your product from a short range. It has 3 control buttons, open, stop and close - the stop button can be used for partial opening.

The remote control is powered by 2 x AAA batteries. In order to preserve the batteries, the remote control will switch itself off after a brief period of inactivity. It will switch itself on when any of the buttons on the remote control are pressed. To replace the batteries, remove the small hex screws found on the rear of the remote to allow access inside. Note the polarity when inserting the new batteries.
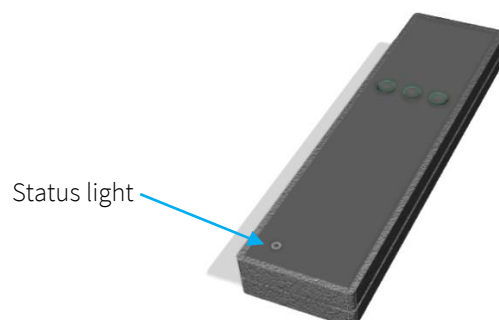
Status light

Figure 2 – Remote control

Pairing a Remote Control

Additional remote controls can be paired to or unpaired from the product. To put the product into pairing mode and prepare it for adding or removing a remote control follow these steps:

1. Ensure that the product is fully closed.
2. Press and hold the CLOSE (down arrow) button on the wall-mounted control switch.
3. Still holding the CLOSE button, press and hold the OPEN (up arrow) button.
4. As soon as the status light starts flashing, release both buttons.

The control switch status light will now flash red and blue alternately for 2 minutes. You now have a 2 minute window in which to pair the remote to the product.

To Add a Remote

Press any of the buttons on the remote control during the 2 minute pairing window. Wait for approximately 30 seconds and then press either the open or close buttons (this needs to be done before the 2 minutes are up). The remote control should now be paired to the product. When using the remote control its status light will illuminate green when the product is in motion.

To Delete a Remote

Ensure there has been at least 2 minutes since either the product was first powered up or from when the pairing procedure was initiated (i.e. you are not in the 2 minute pairing window). Press all three buttons on the remote control together and immediately release them. The status light on the remote control should turn red for a few seconds and then turn off. If it turns green or amber, try pressing the three buttons again. When the red status light turns off, the remote will be unpaired from the product.

Rain Sensor (Optional)

The rain sensor automatically closes the product when moisture is detected. When the product is opened it activates the built-in low power heater to evaporate any surface moisture (this will remove condensation/dew but not large amounts of standing water or ice). If moisture is still detected, the product will close on the assumption that it is raining (the status light will illuminate green). The control switch status light will also flash intermittent green indicating a closure due to rain. The rain sensor should be positioned horizontally (in line with the ground) in a location that will ensure that it is exposed to the rain and must be kept clean to function correctly.

Status light

Figure 3 – Rain sensor

Thermostat (Optional)

The thermostat offers control of the product to regulate the temperature within the building. For security reasons, when the property is unoccupied, the thermostat should be switched off and the product closed.

Building Management System Integration (Optional)

The product can be connected to building management systems. Please contact Glazing Vision for further details if required.

Manual Override

In the unlikely event of failure of the Xvent, it may be necessary to manually override the product. Before considering manually overriding the product, several likely issues should be ruled out first. Check that power is being supplied to the Xvent, also check for any obstructions around the mechanisms, and lastly check that the wall switch is not showing any errors (if so, see the troubleshooting section). If none of these suggestions resolve the issue, then the product can be manually overridden.

Stuck Open

If the Xvent is stuck in the open position and will not close electrically, the mechanisms can be removed to allow the lid to be closed manually. Manual override needs to be done externally, so access to the rooftop will be required (ensure that all necessary safety precautions are followed). Before commencing manual override, ensure that a support system has been put into place (see the options below). **Do not attempt to manually override the product without a safe working platform.**

With a support system in place, unscrew the bolts using a pin torx driver. This will disengage the mechanisms from the lid. Next unscrew the mechanisms from the base frame and allowing them to be removed from the product (take care not to damage the mechanisms – keep them inside the building until assistance is on hand). The support system can now be carefully removed, allowing the lid to be lowered down (closed) manually (take care - it will be heavy). This will leave the building watertight, but not secure.

Plugs

Override screws
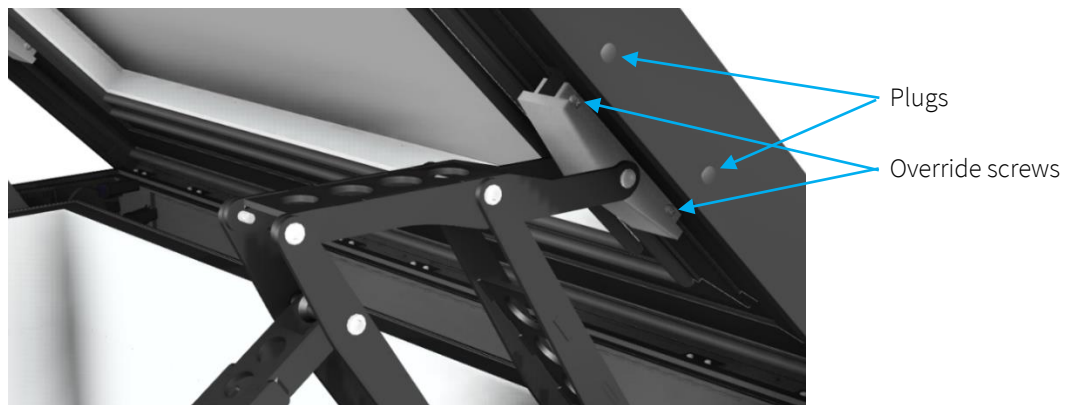
Figure 4 – Override detail

Please contact Glazing Vision for further assistance – the product will no longer be operational. Once the issue is resolved, the product should be reassembled then re-initialised.

Support Option 1 – Timber Supports

This option can be used when the lid is open less than 90°. Cut two matching lengths of timber (it is important to use softwood to avoid damage to the product's framework) to the required length and wedge one between the lid and the base frame on either side of the Xvent. Ensure that the supports are secure and will not slip (it may be necessary to remove the cover plate in the base frame). This will prevent the lid from falling when the mechanisms are removed and allow the Xvent to be safely worked on (when working take care not to knock the supports out of place).

Timber supports

Figure 5 – Timber supports

Support Option 2 - Support Legs
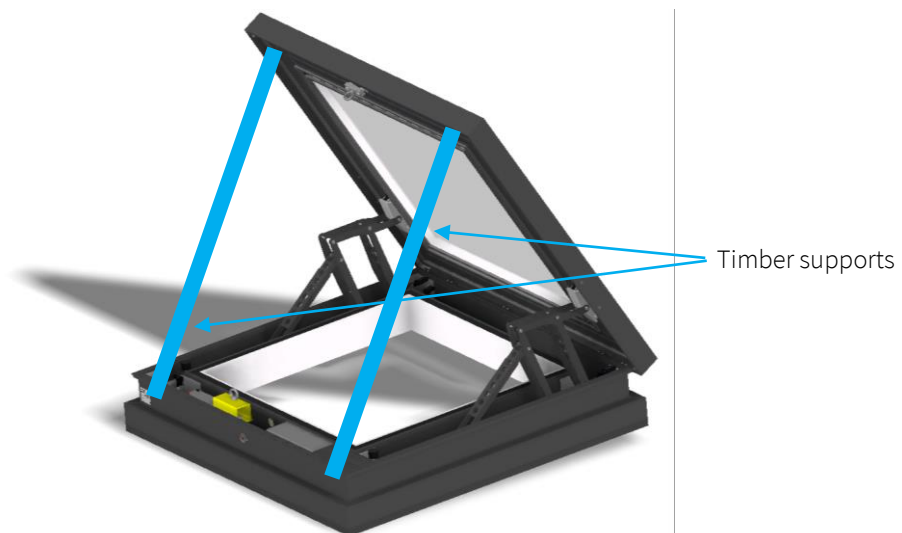
This is the preferred option for when the lid is open at an angle greater than 90°, but it can only be used when there is enough space around the product for the legs to sit underneath the lid. Two support legs (stocked by Glazing Vision) should be fitted to hold the lid in position allowing the Xvent to be safely worked on. Support legs must be fitted on both sides of the lid to ensure that there is adequate support, and it is critical that the height adjustment and clamp bolts are sufficiently tightened to prevent the legs from slipping (when working take care not to knock the support legs out of place).

Clamp bolt

Support leg

Height adjustment bolt

Figure 6 – Support legs

Support Option 3 – Chain or Strap

This option can be used when there is not enough space for the legs to sit – e.g. if the lid overhangs the edge of the building. The two brace brackets (stocked by Glazing Vision) should be fitted – one to the lid, and one to the base (it will be necessary to remove the cover plate and possibly some of the cabling and DR UPS40 switching device in the base frame). Using a chain or strap of an appropriate length, connect the two brace brackets as shown in the image below to allow the Xvent to be safely worked on (when working take care not to knock the support chain/strap out of place). Take care as the lid will be heavy.
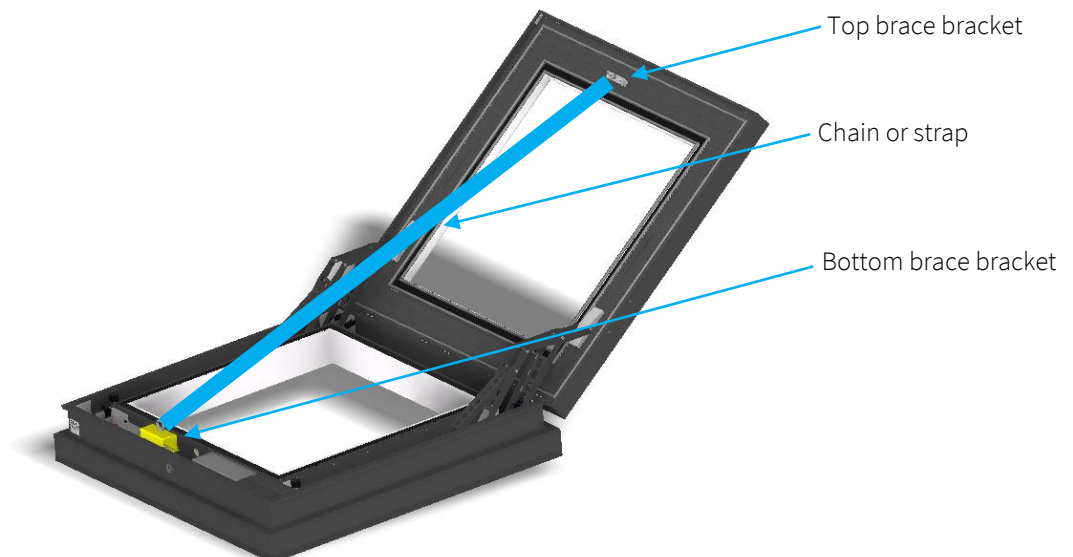

Top brace bracket

Chain or strap

Bottom brace bracket

Figure 7 – Chain or strap

Stuck Closed

If the Xvent is stuck in the closed position and will not open electrically, the mechanisms can be disconnected to allow the lid to be opened manually. As the building will be watertight, manually overriding the Xvent from the closed position is best done when an engineer is on hand to resolve the issue. Manual override needs to be done externally, so access to the rooftop will be required (ensure that all necessary safety precautions are followed). Before commencing manual override, ensure that a support system has been put into place (see the options above). **Do not attempt to manually override the product without a safe working platform.**

Remove the plugs on the sides of the lid frame (two each side) and unscrew the override screws using a pin torx driver (see the diagram in the previous section). This will disengage the mechanisms from the lid and allow the lid to be manually opened (take care – it will be heavy). **Do not attempt to lift the lid without a safe working platform.** Once open, use a support system to keep the lid open. Any necessary work can now be carried out.

Please contact Glazing Vision for further assistance – the product will no longer be operational. Once the issue is resolved, the product should be reassembled then re-initialised.

Re-Initialisation

> ⚠️ This is a safety critical product and must be commissioned by Glazing Vision Engineers or Approved Installers.

If the manual override has been used the product requires re-initialising. As the Xvent is a safety critical product, this will need to be done by a Glazing Vision Engineer. To do this refer to instructions in the installation manual using the below information as reference. **Please contact Glazing Vision for assistance.**

The following instructions should be followed when setting up the mechanisms for the first time or after replacing them due to repair. First check that the unit is receiving the correct power from the Power Supply Unit (PSU). Use a multimeter to check the supply voltage by disconnecting the connection to the batteries and placing the multimeter probes across the DC Input Terminals of the DR UPS40 switching device. You should get a reading of 27.2V DC. If the reading is higher or lower than this figure, then the output from the PSU should be adjusted accordingly. Voltage adjustment is via a screw potentiometer accessed through the front cover (remove small plastic plug first). The PSU is external to the Xvent and can be mounted some way from the product, possibly resulting in a slight volt drop. This is a common reason for a slightly lower voltage at the battery terminals and requires adjusting. 27.2V DC must be the reading at the Xvent to ensure the batteries are given sufficient charge. Ensure that the batteries are connected. After confirming that the PSU is correct the fire alarm connection should be tested. Ensure that the Xvent has been connected to the fire switch (panel, break glass etc.) which will provide a normally closed safety circuit.

Troubleshooting

The Xvent control board monitors the operation of the product. If a fault is detected, the control board will disable the unit to prevent possible damage. Fault and standard conditions are indicated by the status light on the control switch. The following table shows the various status light displays and their meanings.

Status Light Shown	Meaning
Continuous green	The product is moving as part of normal operation. If one touch opening/closing has been activated, the status light will remain lit until the product stops moving.
Intermittent green (flashes every second)	The product is closing but not under control of the operating switch or remote control e.g. due to an optional extra (such as a rain sensor) activating. The status light will continue flashing until the product stops moving.
Intermittent green (flashes once every 2 seconds)	The fire input connection (if specified) has been triggered. The status light will remain lit when opening to the fire position and when stationary afterwards so long as the fire input is still active.
Intermittent green (flashes once every 4 seconds)	The Fireman's Override input (if specified) has been triggered. The status light will remain lit during opening/closing to the fire position and when stationary after override activation. Both the open and close buttons on the wall mounted control switch must be pressed simultaneously for five seconds to clear this state.
Continuous blue	Indicates that the product has timed out (has taken too long to open/close). This is to avoid continuous operation of the motor(s) when there is a potential issue. So long as the cause has been rectified, pressing the open/close button will clear this condition.
Intermittent blue	Indicates an overcurrent or undercurrent condition (the current that the motor(s) are receiving is outside of the set limits). So long as the cause has been rectified, pressing the open/close button will clear this condition.
Continuous red (after power on/fault recovery)	Indicates that the product requires initialisation/synchronisation. Pressing close on the wall mounted switch will initiate synchronisation of the mechanism(s). The status light will flash red whilst this is in progress.
Intermittent red (after power on/fault recovery)	Indicates that the product is initialising/synchronising. The condition will clear automatically when the product has initialised.
Intermittent amber	An unrecoverable fault has been detected by the controller and product operation has been disabled. This state can be cleared by a button press combination (see table below) or removing power (including backup batteries) from the product.

If a fault occurs, please refer to the following table. Some faults with the unit may be easily corrected without the need for a site engineer to visit. Many faults can be cleared by resetting the board. To reset the system, switch off mains power briefly then switch the power back on again. Most faults should be cleared using this method, however, in the event the fault persists, please contact Glazing Vision for assistance.

Problem	Possible Cause	Action
Continuous blue Product has timed out.	The product has taken too long to open/close.	Check for possible obstructions or parts (e.g. sensors) that may have been knocked out of place. Once clear, press the open/close button.
Intermittent blue Overcurrent/undercurrent fault.	Something is preventing the mechanisms from opening/closing.	Check for and remove any obstructions to the mechanisms. Once clear, press the open/close button.
	The lid is frozen to the base.	Wait until the ice melts before attempting to operate the product.
	The product been left inactive for a long period (a month or longer).	This fault may occur after a long period of inactivity, reset the product (turn it off/on using the mains isolator switch) and try again.
Continuous red Synchronisation/initialisation state – the product needs to be initialised.	May occur after turning off/disconnecting the power when the mechanisms were not in the closed position.	Press the close button on the wall mounted control switch to initiate synchronisation of the mechanism(s). The status light will flash red whilst this is in progress.

Intermittent amber Fault lockout state – controller is unable to reset itself and the product has been disabled.	Cause unknown.	**Do not attempt to recover this fault without being in full view of the product, ask for assistance.** To force a resynchronisation, press both the up and down buttons of the wall mounted control switch at the same time for two seconds. The control switch status light will then toggle through red, green and blue colours, finishing with red. Press the down button to close the product and initiate synchronisation (the status light will flash red whilst this is in progress). If one of the mechanisms fails to move or if the fault is triggered for a second time, **do not attempt to try again**, and if required refer to the manual override instructions to close the product.
The product opens or closes for no apparent reason.	The rain sensor (if specified) is dirty or still wet triggering the product to close.	If it is raining wait until the rain stops before trying to open the product. If the rain sensor needs cleaning, open the product and isolate the power supply, then clean the rain sensor.
	The thermostat (if specified) is reacting to a change in temperature and triggering the product to operate.	Check that the thermostat is set to the desired temperature setting.
	The BMS system (if specified) is operating the product remotely.	Check that the BMS system is functioning correctly.
The rain sensor is not working.	The rain sensor is located in a position where it is shielded from the rain or the sensor is dirty.	Check the positioning of the rain sensor and move it to a more exposed position (a Glazing Vision engineer may be required for this task). If the rain sensor needs cleaning, open the product and isolate the power supply, then clean the rain sensor.

Due to the safety critical nature of this product, a Glazing Vision engineer must attend to re-initialise the Xvent if all attempts to reset the product fail.

Glass Specification and Breakage Instructions

Glass Specification

Various options are available at time of order. If specific data is required for the glazing, please contact your supplier for a glass data sheet covering the specification installed within your unit.

Breakage Instructions

Glass breakage is not covered under the product warranty. In the event of the glass being damaged please contact Glazing Vision for assistance.

Routine Testing and Maintenance

Routine Testing (recommended weekly in co-ordination with the weekly fire alarm test)

As the Xvent is a safety critical product it is anticipated that it will be subject to a regular testing regime. This is the reason why, following fire activation, it has been made necessary to close the Xvent manually using the wall mounted control switch. In this way it is possible to walk to each Xvent in the building, confirm that it has opened to the fire open position, and then check that the Xvent closes with no faults present (i.e. green status light on wall mounted control switch).

General Maintenance and Safety

To keep the Xvent in good working order there are a few basic points that should be observed:

- Do not place anything on, or cause obstruction to the moving section of the product when opening the unit as this may cause damage to the unit's mechanisms and/or prevent it from opening.
- Do not walk or sit on the unit.
- Make sure that fingers and other obstructions are clear of the product and its mechanisms during any operation, severe damage/injury may be caused.
- Do not touch the motors/mechanisms after operating the unit as they may become hot.
- Do not remove the treadplate protecting the control board, as this may allow the controls to become damaged.
- Do not allow unauthorised persons (e.g. children) to operate the product as this may lead to injury or damage to the product.

Specific Maintenance Requirements

The Xvent is a safety critical product and maintenance must only be carried out by suitably qualified personnel*. The following maintenance requirements must be completed and logged on the sheets at the back of this manual. Glazing Vision can offer a service/maintenance contract – please contact us for further details.

*Suitably qualified assumes Glazing Vision Engineers or Approved Installers (installers that have attended a Glazing Vision installation training course for this product and carry 'Approved Installer' status), or an experienced electro-mechanical service engineer.

Monthly Requirements

- The product should be fully opened and closed to ensure that the seals are free, and the mechanisms function evenly.

Annual Requirements (at least annual - recommended every 6 months)

- Check the integrity of the glazing unit (there should not be any misting or condensation).
- Check that all moving parts are free from debris.
- Grease (Shell Gadus s2 v220 2 or equivalent) the mechanism leadscrews.
- Lubricate (WD-40 Specialist High Performance Silicone Lubricant or equivalent) all other moving parts and check they move freely.
- Check that all mechanism arms are straight and true.
- Check that all fixings are appropriately tightened.
- Check that access to the overrides is clear and advise the relevant party to amend if not.
- Check all electrical cables and ensure that they are not trapped and/or damaged.
- Check that no water is in the unit.
- Clean and inspect all rubber/silicone seals, contact Glazing Vision to arrange for replacement seals to be fitted if required.
- Check that the battery terminals are crimped correctly.
- Check that electrical connections are well made and secure.
- Check that the control switch does not show any errors.
- Test the ventilation operation.
- Test the fire operation on mains power.
- Test the fire operation without mains power (just with battery backup).
- While testing without mains power check that the "no mains power" warning is active.
- Test any optional extras present.

Every 5 Years

- Replace the back-up batteries.

Cleaning Requirements

Regular cleaning should be carried out, increasing the frequency if the area is subject to excess debris such as falling leaves or heavy soiling from atmospheric pollution. Due to the Xvent's unique bonding method and the pitch built into the upstand, there should be no water ponding on the glass when installed correctly.

Any standard glass cleaning product can be used to clean the glazing unit. However, take care not to use abrasive materials or cleaners as this may affect the unit and its finish. The framework of the unit can be cleaned using warm soapy water with a soft lint free cloth. It is important to avoid getting water into the internal channels of the product framework. Therefore, Glazing Vision highly recommends carrying out any cleaning of the product whilst in the closed position.

- Clear any debris from and around the unit.
- Clean the glass and inspect the integrity of the glazing unit.
- Clean the frame and inspect the finish integrity.
- Clean and inspect all rubber/silicone seals, contact Glazing Vision to arrange for replacement seals to be fitted if required.
- Clean the rain sensor (if present).

Disposal at End of Life

Glazing Vision design products with ease of recyclability at end of life in mind. Many of the main components used are widely recyclable and we encourage you to recycle the unit and/or dispose of the component parts responsibly, in accordance with the guidance from your local authority.

This product comprises the following materials:

Aluminium framework and corner brackets	Widely accepted for recycling at local recycling depots.
Steel framework and corner brackets	Widely accepted for recycling at local recycling depots.
Stainless steel (Fixings, nuts, bolts, screws, brackets etc.)	Widely accepted for recycling at local recycling depots.
Glass	Widely accepted for recycling. Check disposal locations with your local recycling depot.
PVC/nylon/plastic	Recyclable - check disposal with your local recycling depot.
Rubber seals and silicone sealant	Not currently recyclable.
Electrical components	If your unit is repaired or decommissioned by Glazing Vision, we will remove and recycle the electrical components under our producer obligations. Alternatively, please dispose of as Waste Electrical and Electronic Equipment (WEEE) at your local recycling depot.
Batteries	If your unit is repaired or decommissioned by Glazing Vision, we will remove and recycle any batteries under our producer obligations. Alternatively, please dispose of as segregated battery waste at your local recycling depot.

Security and Certification

The Xvent is designed with security as a priority. The mechanisms cannot be back driven. It is tested to LPS2081 Issue 1:2015. It is approved by the Loss Prevention Certification Board (Cert/LPCB ref: 1347a) and Secured by Design:
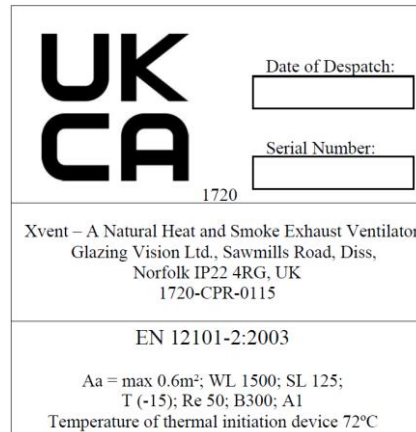
Secure (Security Rating A)
The inner pane must be at least 8.8 mm PVB laminated glass (two 4 mm thick panes separated by an 0.8 mm thick PVB interlayer).

Secure+ (Security Rating B)
The inner pane must be at least 9.5 mm ionomer laminated glass (two 4 mm thick panes separated by a 1.5 mm thick ionomer interlayer).

This product is certified to EN 12101-2-2003 and is UKCA marked. Visit our website or contact your technical sales advisor for up to date certification documentation. The following label will be affixed to the exterior of each Xvent supplied by Glazing Vision.

<table>
<tr><td rowspan="2">

UK CA

1720
</td><td>Date of Despatch:</td></tr>
<tr><td>Serial Number:</td></tr>
<tr><td colspan="2">Xvent – A Natural Heat and Smoke Exhaust Ventilator
Glazing Vision Ltd., Sawmills Road, Diss,
Norfolk IP22 4RG, UK
1720-CPR-0115</td></tr>
<tr><td colspan="2">EN 12101-2:2003</td></tr>
<tr><td colspan="2">Aa = max 0.6m²; WL 1500; SL 125;
T (-15); Re 50; B300; A1
Temperature of thermal initiation device 72ºC</td></tr>
</table>

Serial Number

Each Glazing Vision product has a unique serial number. This is given on the UKCA mark label. number should be recorded within the maintenance log section of this manual for future reference. If you need to contact us for any reason, Glazing Vision may ask for the product's serial number to enable us to assist with your enquiry.

Warranty Information

A warranty document will be provided with the product. If this is misplaced it can be found at www.glazingvision.co.uk/resources/warranties. To ensure the warranty is maintained, the product must be regularly maintained/serviced in accordance with the instructions in this manual.

Maintenance Log

Project Address: ……..

Unit Serial Number: ……….…...

Work Completed	Notes	Name	Date
Annual Requirements yes/no Battery Replacement yes/no Cleaning Requirements yes/no			
Annual Requirements yes/no Battery Replacement yes/no Cleaning Requirements yes/no			
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Work Completed	Notes	Name	Date
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