



GV Standard PitchVent

Operation and Maintenance Manual



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Introduction

Thank you for purchasing a Glazing Vision PitchVent (figure 1). We hope that it gives you many years of service and enjoyment. PitchVent roof-windows are designed to provide maximum daylight with minimal visible internal structure. The product is made from thermally broken aluminium extrusions offering excellent thermal performance, and is designed provide a ventilation opening of approximately 250mm. Should you have any queries beyond this manual, please do not hesitate to contact Glazing Vision.



Figure 1 – PitchVent

Chain Actuated PitchVent Controls and Operation

Do not try to open your PitchVent if the outside is frozen.

Control Switch

The standard operation is via the supplied wall switch (figure 2) and can be operated using two different methods as explained below:

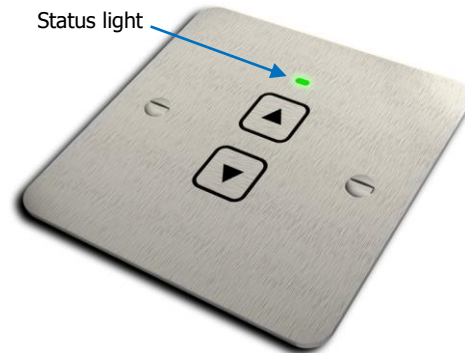


Figure 2 – Wall mounted control switch

1. **'One touch' operation** – Press and release the control switch in either the up or down (open/closed) direction as required. The product will open or close fully. Press the control again to stop the product if you want it partially open or closed.
2. **Conventional 'hold' operation** – Press and hold the control switch until the product has reached the position you want. When you release the switch the product will stop in that position. If you continue to press the switch the product will stop when it becomes either fully open or closed.

Status Light

The status light (LED) will illuminate green if the PitchVent is working normally or intermittent green when closing due to rain. If the status light displays another colour please refer to the troubleshooting section.

Remote Control (Optional)

The remote control unit (figure 3) functions in the same way as the control switch allowing the rooflight to be opened and closed from a short distance away. The remote control is powered by one long life A23 12V battery. The battery cover plate is found on the rear of the remote and can be accessed by pushing down and sliding the rear cover to one side.



Figure 3 – Remote control

Building Management (Optional)

The PitchVent can be connected to Building Management Systems. Please contact Glazing Vision Ltd for further details if required.

Rain Sensor Operation (Optional)

The rain sensor (figure 4) automatically closes the rooflight when it rains. If moisture is detected on the rain sensor when rooflight is opened, a special built in heater activates for 60 seconds to evaporate standing water. If after 60 seconds water is still detected, the rooflight will close. This feature enables the rooflight to differentiate between rain and standing water / morning dew.



Figure 4 – Rain sensor

Chain Actuated PitchVent Manual Override

The PitchVent is equipped with a manual override function. This is an emergency system should the unit not open or close for any reason. In the unlikely event that your chain actuated PitchVent fails please contact Glazing Vision Ltd for further assistance. We recommend that only one of our qualified Service Engineers maintain your product.

Should the product be stuck in the open position, then the following steps can be taken. Do not attempt to lift the lid without a safe working platform.

Before manually disconnecting the chain, prop the lid open using two lengths of wood that are approximately 300mm long (it is important to use soft wood to avoid damage to the aluminium extrusion). The pin that links the chain to the lid fixing bracket can then be removed by first removing the clip. Remove the cover plate using a screwdriver (fig. 5) Lower the chain down, and do not let the chain drop. Do this for all chains on the product.

With the lid no longer supported by the mechanisms it can be lowered and closed slowly (the lid will be very heavy), taking care not to damage anything. Do not open the lid past 350mm as this may cause damage to the product. The unit should now be water tight however it will not be mechanically locked – please contact Glazing Vision as soon as possible.

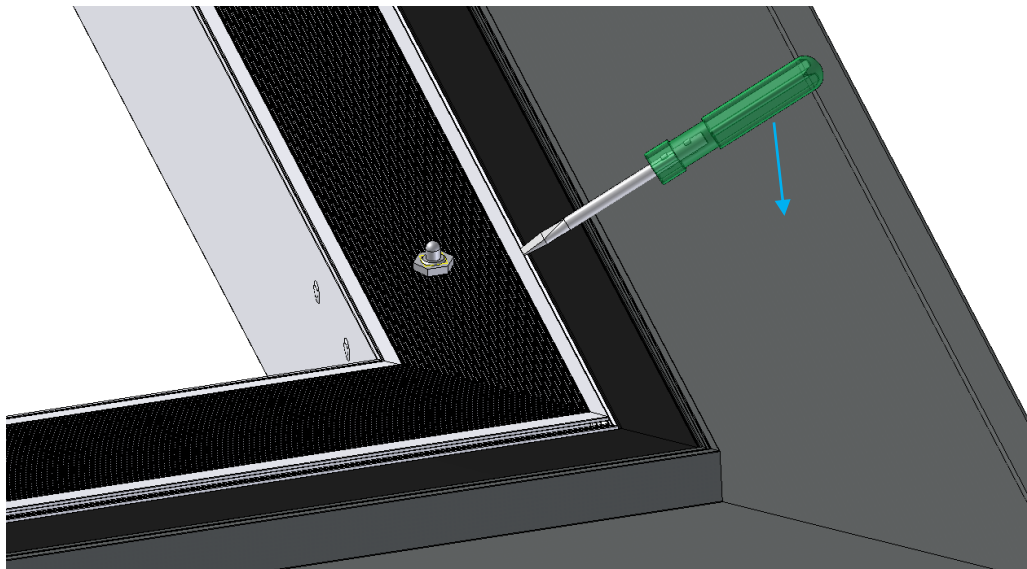


Figure 5 – Removal of cover plates

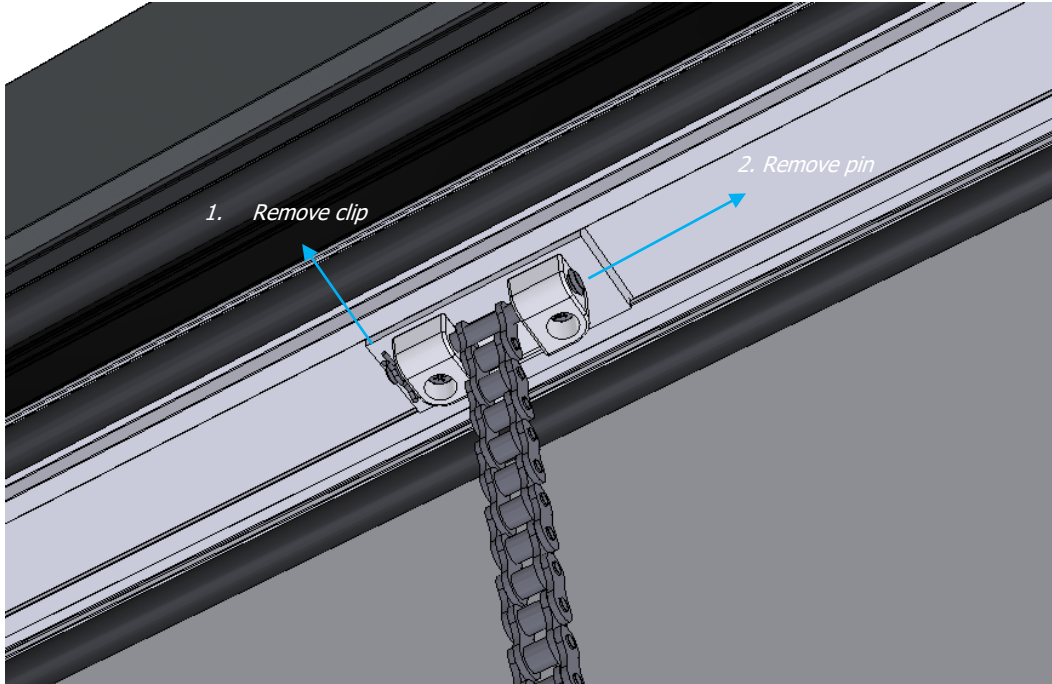


Figure 6 – Manual disconnect

Manual Crank PitchVent Operation

Do not try to open your PitchVent if the outside is frozen.

Opening and Closing the Manual Crank PitchVent

The product is opened and closed by turning the hook eye on the end of the telescopic spindle (figure 8) with the supplied crank handle. When viewed from below, a clockwise rotation opens the product.

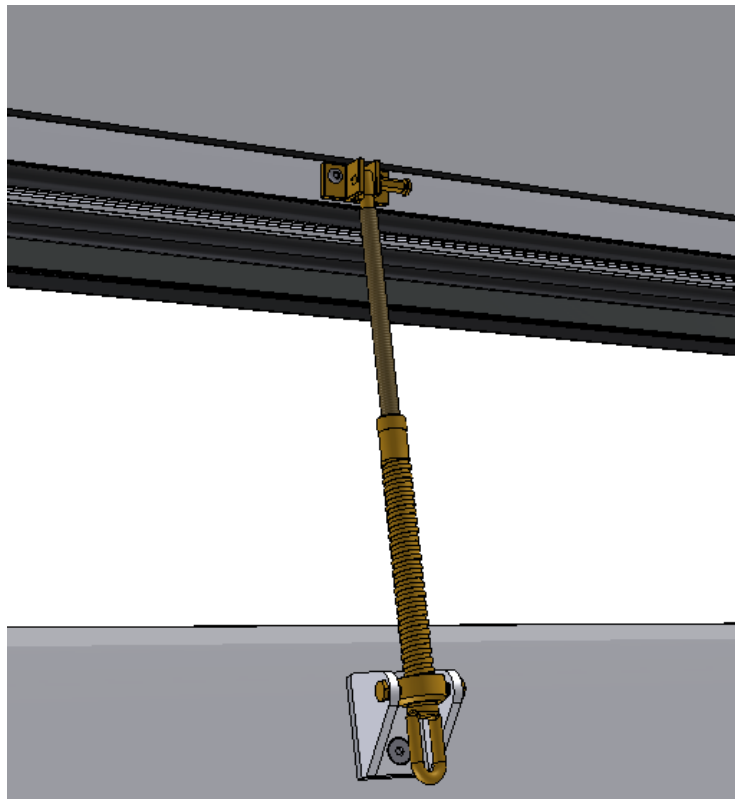


Figure 7 – Opening / closing spindle

Please Note: As with all mechanical parts, regular maintenance is needed. Please lubricate the spindle thread every 3 months or as necessary. For instance if the unit develops a squeak or it's difficult to turn the crank handle, then lubrication is required. We recommend using a silicone based lubricant (available in spray) to alleviate noise and ensure smooth running of the product.

Cleaning the PitchVent

Due to the PitchVent's unique bonding method and the pitch of the roof, there should be no water ponding on the glass when installed correctly. To clean the glass, a standard glass-cleaning product can be used. Routine cleaning of the powder coated finish must be implemented for the warranty to be valid, and a record of cleaning schedules will be required in the case of a claim. This should be done every 6 months.

The best method of cleaning is by regular washing of the coating using a solution of warm water and mild detergent. All surfaces should be cleaned using a soft cloth or sponge, using nothing harsher than natural bristle brushes. If atmospheric pollution has resulted in heavy soiling of the coating, then nothing harsher than white spirit should be used. Under no circumstances should chlorinated hydrocarbons, esters, ketones or abrasive cleaners be used.

General Maintenance & Safety

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

- Do not place anything on the lid or cause obstruction to the lid of the PitchVent when opening the unit as this may cause damage to the unit's mechanisms.
- Do not walk on the unit.
- Make sure fingers and other obstructions are clear of the vent before closing the unit (although there is a circuit board overload cut out, severe damage/injury may be caused).
- Do not touch the actuators after operating the unit, as they may become hot.
- It is recommended that a general inspection is carried out on the unit wherever possible at least once every 6 months.
- Glazing Vision, if required, can offer a service / maintenance contract. Please contact Glazing Vision for further details.
- Do not remove the cover plates protecting the chain actuators and control board (PCB), as this may allow these parts to become damaged.
- Keep the frame clear of general dirt and debris particularly around the opening mechanisms.
- Do not allow unauthorised persons (e.g. children) to operate the product as this may lead to injury or damage to the product.
- Apply lubrication to manual crank spindles regularly to ensure smooth running of the spindle (silicone based lubricants are recommended).

Troubleshooting

The PitchVent control board monitors the operation of the vent. If a fault is detected, the board will disable the product to prevent possible damage. Fault and standard conditions are indicated by the status light on the control switch (figure 2). The following table shows the various status light displays and their meanings:

Status Light Shown	Meaning
Continuous Green	Displayed whilst product is in motion with no faults present. If product is one-touch opened or closed LED will remain lit until motion stops.
Intermittent Green	Flashes whilst product closes due to rain sensor. Flashing will stop when motion stops.
Continuous Blue	Indicates an IO fault, i.e. a mechanism timing fault. LED remains lit and control switch is disabled until control board is reset.
Intermittent Blue	Indicates an overcurrent or undercurrent condition. Flashes and control switch is disabled until control board is reset.

If a fault occurs please refer to the table below. Some faults with the unit may be easily corrected without the need for a site engineer, however if you are unsure, please contact Glazing Vision Ltd. Many faults can be cleared by resetting the board. To reset the system switch off mains power for 15 seconds, then switch the power back on again. The majority of faults should be cleared using this method, however, in the event the fault persists, please contact Glazing Vision Ltd.

Problem	Possible Cause	Action
Overcurrent fault (blue light flashing)	Is there a mechanical obstruction preventing the lid from moving?	If possible, look at the mechanisms and remove any obvious obstructions.
	Is the lid frozen to the base?	Attempt to open the product once ice has melted.
	Has the vent been left inactive for a long period (a month or longer)?	An overcurrent fault is likely after a long period of inactivity. Reset the product and try again.
Input/output fault (blue light continuous)	There is a problem with one of the mechanisms.	Disable vent by switching off the power. Contact Glazing Vision for further assistance.

Standard Glass Specification and Breakage Instructions

Glass Specification

A typical glass used within the PitchVent comprises a 6mm HST toughened outer pane, a 20mm warm edge spacer argon filled black silicone sealed cavity and a 6mm HST soft coat Low E toughened inner pane. However, various options are available at time of order. If specific data is required for the glazing please contact Glazing Vision for a glass data sheet for the specification installed within your product.

Breakage Instructions

Should the glazed unit break for any reason, due to the unique method of bonding the glass unit into the frame, a new lid would need to be supplied. Glass breakage is not covered by the product warranty unless the breakage is a direct result of Glazing Vision Limited or its product failing. In the event of the glass being damaged please contact Glazing Vision for assistance.

COSHH and Safe Disposal

There are no hazardous materials used in the construction of the PitchVent. When disposing of the PitchVent please recycle as much as possible. Do not burn any plastic materials. The following materials are used throughout the PitchVent:

Framework

<ul style="list-style-type: none"> • Aluminium extrusion • Aluminium corner brackets • Aluminium override caps • Stainless steel fixings • Low modulus silicone • Polybutyl tape • PVC foam tape • Acrylic adhesive (corner joints) • Nylon caps • Nitrile o-rings 	<ul style="list-style-type: none"> • Polyester powder coated finish • Closed cell PIR foam insulation • Polyamide thermal break strips • Polyethylene backing rod • Toughened glass panes • Aluminium spacer bar • Polyurethane adhesive • PVB laminate interlayer (laminated units only)
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Mechanisms and control

<ul style="list-style-type: none"> • Stainless steel fixings • Aluminium plates • Printed circuit boards (PCBs) • Copper wiring • Electric motor • Standard insulated spade terminals 	<ul style="list-style-type: none"> • Stainless steel push switch • HIPS electronics enclosure • Chain actuator(s) (chain actuated) • Brass telescopic spindle (manual crank) • Power supply (chain actuated)
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Product Warranty

A warranty document will be provided with the product. If this is misplaced it can be found at www.glazingvision.co.uk/resources/warranties/.

Conformity



EN 14351-1:2006+A2:2016

For more, refer to the separate declaration of performance documentation, or see the CE marking affixed to the PitchVent.