

## SPECIFICATION

- Slim Line Aluminium / PVCu Roof Vent
- Full Welded PVC Outer Frame
- Aluminium High Strength Vent.
- Full Width Hinge Enables Vent to Open to 90 Degrees.
- Available in a Choice of Woodgrain Finishes
- Available in Any Standard RAL Colour.
- Choice of Manual / Automated & Remote Controlled.
- All Standard Vents Are Delivered In 5 Working Days.
- 25mm or 35mm Glazing.



## **ACK 42 CHAIN MOTORS**

### **WIRING INSTRUCTIONS**

THE ACK42 CHAIN MOTORS ARE FITTED WITH A THREE CORE CABLE: BLACK, BLUE AND BROWN.

EACH CABLE COMMAND IS AS FOLLOWS:

**BLACK = OPEN  
BLUE = COMMON  
BROWN = CLOSE**

***CONNECTING BY ANY OTHER COMBINATION MAY RESULT IN  
MOTOR DAMAGE***

### **CONNECTING THE MOTOR TO A PARK LANE ROOF VENT**

FOR EASIER FITTING OF THE CONNECTING PIN WHICH JOINS THE CHAIN MOTOR TO THE LID OR WINDOW BRACKET, FIRST OPERATE THE MOTOR SO THAT THE CHAIN IS EXTENDED FROM THE MOTOR BODY.

THE MOTOR BODY HAS FOUR SCREWS HOLDING THE TWO HALVES OF THE BODY TOGETHER. ALWAYS FIT THE MOTOR WITH THESE SCREWS FACING THE MOUNTING BRACKET.



## Climate Control Unit

The unit is designed to operate up to six vent actuators, it has a built-in sensor which monitors the temperature of the roof.

The controller can be programmed to open the vent when the room temperature reaches the pre-set value which can be adjusted from 5°C to 30°C. The vent will automatically close when the temperature drops below this setting.

Additionally, a rain sensor, which is attached to an external surface of the building, will override the temperature sensor and close the vent, or prevent it from opening, in the event of rain.

The automatic settings can also be overridden by the manual control buttons which will either open or close the vent when pressed.



## Topp ACK4 Actuator

Electric actuator with double-link stainless steel chain, die cast aluminium body powder coated to match each roof vent.

The brackets are pre-assembled onto the roof vent to reduce site installation time. A quick release attachment allows the vent lid to be removed to gain access to the roof for cleaning / maintenance purposes.

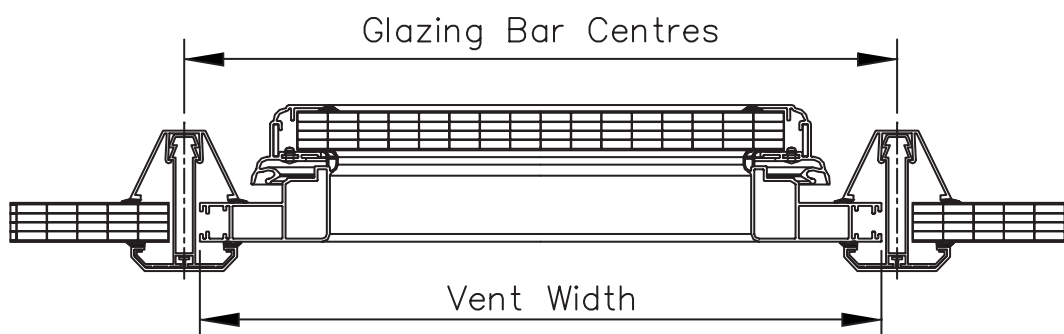
The actuator requires a 230V / 50Hz AC power supply and will deliver a 300N thrust force. The stroke length of the chain is adjustable to a maximum of 400mm.



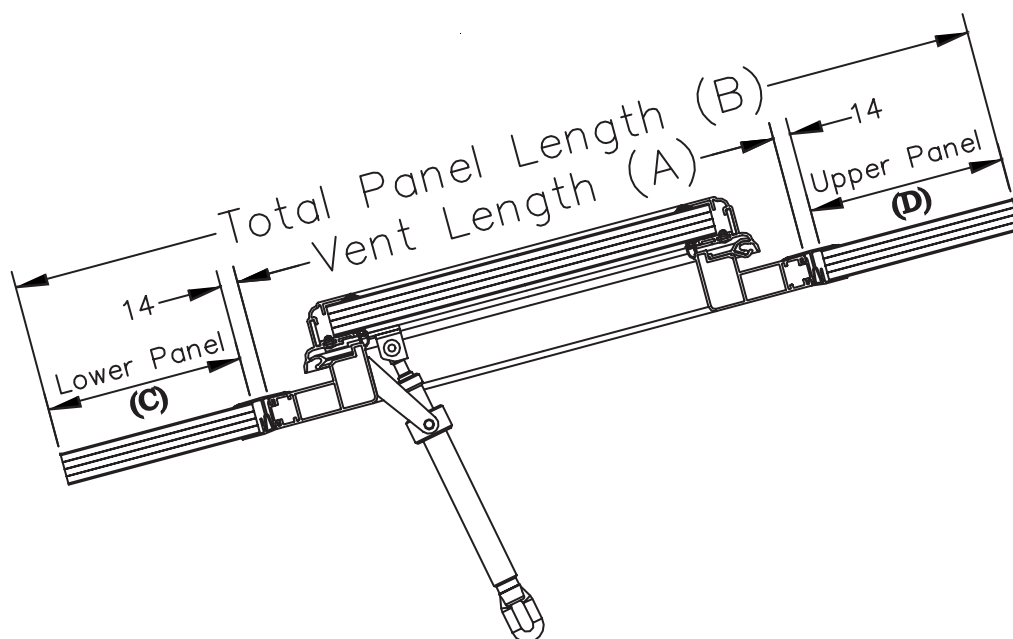


Conservatory Roof Systems

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The vent width is always equal to the width of the polycarbonate panels installed above and below the vent.  
Typically, Glazing Bar Centres - 20mm



$$C = B - A - D - 28\text{mm}$$

Vent and glazing panel lengths for dual pitch and lean to roofs.

Roof Vent glazing width = Vent Width - 135mm

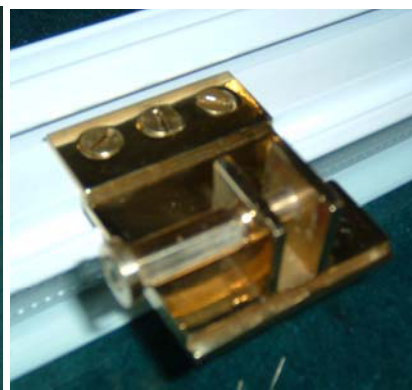
Roof Vent glazing length = Vent Length - 135mm

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## SITE GLAZING ASSEMBLY INSTRUCTIONS

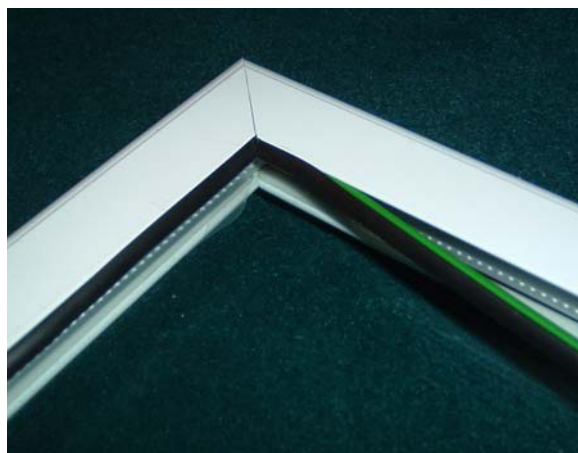
1. With the aluminium sash frame laid on a flat surface and the underside uppermost, undo all the visible screws and remove the aluminium glazing beads and quick release coupling.



2. Place the glass / polycarbonate panel inside the frame and re-fix the aluminium glazing beads making sure that the ends of the foam tape release liner are accessible. The glazing beads must be refitted into the same sides as they were originally located.
3. After making sure the glass / polycarbonate panel is central to the frame, remove the release liners from each glazing bead. While slightly raising one end of the assembly, push the glass / polycarbonate panel onto the adhesive backed foam tape from underneath.



4. Once the panel has been fitted to all four glazing beads turn the assembly over and insert the wedge gasket between the glass and top surface of the aluminium frame. Make sure that the mitred corners of the gasket are pressed into each other.



The sash is now ready to be fitted to the vent sub-frame. (please refer to separate instructions)



# VENT ASSEMBLY

1. Place roof vent PVC frame onto the glazing bars, above the lower glazing panel. Make sure it is centrally located between the glazing bars.

2. Apply a thin bead of silicone sealant to the lower glazing support bar.

3. Place the lower glazing panel onto the support bar, pressing it down to spread the silicone.

4. Apply additional beads of silicone along the edges of the glazing panel and PVC frame.

5. Locate the PVC glazing connector cap and, working from one end to the other, press down firmly to engage the snap lock.

6. Repeat steps 2 and 5 on the upper glazing panel junction.

7. It is recommended that a short bead of silicone is applied over the connector cap gaskets at the points where the glazing bar capping seals make contact with them.

8. Wipe any excess silicone off after the glazing bar capping has been fitted.

9. The sash must be held at about 95 degrees to the plane of the roof to engage onto the hinge. Hook the outer channel, on the underside of the frame, onto the hinge as shown and rotate the sash to the closed position to engage the hinge.

