VELUX KFX 210 EU

VELUX KFX 210 EU Smoke Ventilation Control System User Manual

Model: KFX 210 EU

1. Product Overview

The VELUX KFX 210 EU is a control system designed for smoke ventilation systems, specifically for use with electrically operated roof windows for smoke ventilation (e.g., CSP) installed in flat roofs (0°-15°). This system is ideal for automatic smoke ventilation in stairwells or lobbies, enhancing safety in buildings.

The KFX 210 EU control system can manage up to four VELUX GGU smoke ventilation roof windows or one CSP flat roof window for smoke ventilation. It integrates essential components for a complete smoke ventilation solution.



Figure 1: VELUX KFX 210 EU Control System, showing the main unit, a smaller break glass unit, and a smoke detector.

Key Features:

- Controls up to four GGU smoke ventilation roof windows or one CSP flat roof window.
- Includes a control unit with a break glass point and a switch for comfort ventilation.
- Designed for automatic smoke ventilation in critical areas like stairwells and lobbies.
- Integrates with smoke sensors (KFA 100) and break glass units (KFK 100) (purchased separately).

2. Components Included

The VELUX KFX 210 EU system typically includes the following components:

- Control system (3FC F0X)
- Smoke detector (KFA)
- Break glass point (KFK)
- Key
- Frame
- 72-hour battery backup
- Black cable
- Labels

Note: Additional smoke sensors (KFA 100) and break glass units (KFK 100) may need to be purchased separately depending on the specific system configuration and building requirements.



Figure 2: Close-up view of the VELUX KFX 210 EU main control panel, showing the 'SMOKE VENTILATION' label and the central break glass mechanism.



Figure 3: Close-up view of the smoke detector, a crucial component for automatic smoke detection.

3. Setup and Installation

Installation of the VELUX KFX 210 EU smoke ventilation control system should be performed by qualified personnel in accordance with local building codes and regulations. Proper wiring and connection of all components are crucial for the system's functionality and safety.

General Installation Guidelines:

- Ensure the control system is mounted in an accessible yet secure location, protected from environmental damage.
- Connect the control system to the designated smoke ventilation roof windows (GGU or CSP) according to the wiring diagrams provided in the full installation manual.
- Install smoke detectors (KFA 100) in strategic locations to ensure early detection of smoke, following fire safety standards.
- Mount break glass units (KFK 100) in easily accessible areas, typically near exits or fire escape routes, for manual activation.
- Connect the battery backup system to ensure continuous operation during power outages.
- Perform initial system tests to verify all components are functioning correctly.

4. Operating the System

The VELUX KFX 210 EU system is designed for both automatic and manual operation of smoke ventilation windows.

Automatic Operation:

In the event of smoke detection by the connected smoke sensors (KFA 100), the control system will automatically trigger the smoke ventilation roof windows to open, facilitating the release of smoke and heat from the building. This automatic response is critical for fire safety.

Manual Operation:

The system can also be manually activated via the break glass units (KFK 100). Breaking the glass on these units will send a signal to the control system, initiating the opening of the smoke ventilation windows. This provides an immediate manual override in emergency situations.

Additionally, the control system includes a switch for comfort ventilation, allowing users to open or close the windows for general ventilation purposes when there is no smoke alarm.

5. Maintenance

Regular maintenance is essential to ensure the long-term reliability and optimal performance of your VELUX smoke ventilation system.

- **Annual Lubrication:** It is highly recommended to lubricate the window hinges of the smoke ventilation windows at least once a year. This ensures smooth operation and prevents wear and tear.
- **Battery Backup Check:** Periodically check the 72-hour battery backup system to ensure it is fully charged and functional. This is vital for system operation during power failures.
- **Sensor Testing:** Conduct regular tests of the smoke detectors (KFA 100) and break glass units (KFK 100) according to manufacturer guidelines and local regulations to confirm their operational readiness.
- **Visual Inspection:** Routinely inspect all visible components, including wiring, control panel, and window mechanisms,

for any signs of damage, corrosion, or loose connections.

For detailed maintenance procedures, refer to the comprehensive technical manual provided with the system or consult a certified VELUX service technician.

6. Troubleshooting

This section provides general guidance for common issues. For complex problems, always consult a qualified technician.

Common Issues and Solutions:

- **System Not Responding:**
  - Check the main power supply to the control system.
  - Verify that the battery backup is charged and properly connected.
  - Inspect all wiring connections for looseness or damage.
- **Windows Not Opening/Closing:**
  - Ensure there are no obstructions preventing window movement.
  - Check if the window hinges require lubrication (refer to Maintenance section).
  - Confirm that the control system is not in an alarm state (e.g., due to a triggered smoke detector or broken glass unit).
- **Smoke Detector Alarm (False Alarm):**
  - Ensure the smoke detector is clean and free from dust or debris.
  - Check for sources of steam, cooking fumes, or other non-smoke aerosols near the detector.
  - If false alarms persist, the detector may need replacement or professional inspection.

If you encounter issues not covered here or if troubleshooting steps do not resolve the problem, please contact VELUX customer support or a certified service partner.

7. Specifications

Attribute	Value
Brand	VELUX
Model	KFX 210 EU
Included Components	Control system, smoke detector KFA, break glass point KFK, key, frame, backup batteries, black cable, labels
Color	White
ASIN	B00WOZ89W0
First Available Date	7 September 2022

8. Warranty and Support

For information regarding the product warranty, please refer to the warranty card included with your VELUX KFX 210 EU system or visit the official VELUX website. Warranty terms and conditions may vary by region.

For technical support, spare parts, or professional service, please contact VELUX customer service or an authorized VELUX service partner in your area. Ensure you have your product model number (KFX 210 EU) and ASIN (B00WOZ89W0) ready when contacting support.

VELUX Official Website: www.velux.com

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

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