

UVENTS



Installation, Operation & Maintenance Manual

UVENTS Ventilation Systems

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1. SAFETY INFORMATION

- Read this manual carefully before installing or operating the unit.
- Installation and electrical connections must be carried out by qualified personnel.
- Disconnect electrical power before performing maintenance or inspection.
- Ensure proper grounding according to IP55 protection class requirements.
- Do not operate the unit outside the specified operating limits.
- Ensure that airflow passages are free of foreign objects before operation.

2. GENERAL DESCRIPTION

UVS-H EKO series are cabinet type radial ventilation units equipped with forward curved centrifugal impellers. The unit is designed for both exhaust air removal and fresh air supply in ventilation systems. The cabinet structure provides reduced noise levels and reliable operation in indoor ventilation applications. The body and impeller are manufactured from galvanized sheet metal for durability and corrosion resistance.

3. TECHNICAL SPECIFICATIONS

Airflow Range	2,250 to 9,800 m³/h
Static Pressure	1,200 to 1,380 Pa
Impeller	Forward curved impeller
Power Range	0.75 – 3 kW
Body & Impeller Material	Galvanized sheet metal
Motor Efficiency Class	IE2 / IE3
Protection / Insulation	IP55 / F Class
Frequency	50 Hz
Operating Temperature	-20 to +50 °C

4. AREAS OF USAGE

- General ventilation systems
- Fresh air supply systems
- Exhaust air ventilation systems
- Hotels and restaurants
- Hospitals and healthcare facilities
- Cinemas and theatres
- Textile and chemical industries
- Printing and manufacturing facilities

5. INSTALLATION

The unit must be installed on a stable surface capable of supporting the cabinet weight and vibration loads. Ensure proper alignment with the duct connections at the inlet and outlet openings. The airflow direction must correspond with the installation orientation. Electrical connections must be performed according to the motor nameplate and wiring diagram. Proper grounding must be ensured before operation.

6. OPERATION

Before starting the unit verify that the supply voltage and frequency correspond to the motor specifications. Check that all duct connections are properly installed and sealed. During operation monitor the system for abnormal vibration, noise or airflow reduction.

7. MAINTENANCE

Disconnect electrical power before performing maintenance. Periodically inspect the impeller and internal components for dust accumulation. Clean internal surfaces when necessary. Check mounting bolts, electrical connections and cabinet fasteners regularly to ensure safe operation.

8. TROUBLESHOOTING

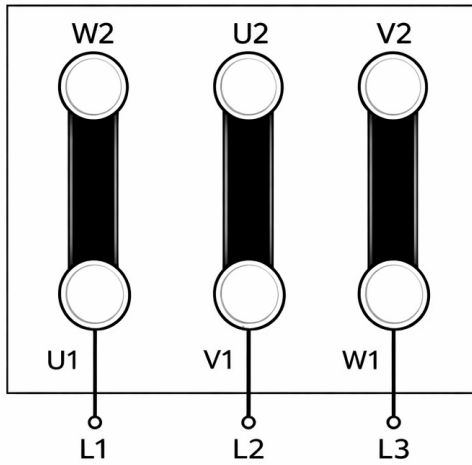
Issue	Possible Cause	Solution
Fan not starting	No power / wrong wiring	Check supply; verify wiring per diagram
Abnormal noise	Foreign object or misalignment	Inspect impeller/duct; tighten mounts
Low airflow	Blocked duct system, contaminated impeller, incorrect installation	Inspect duct system, clean impeller, verify installation

9. WARRANTY

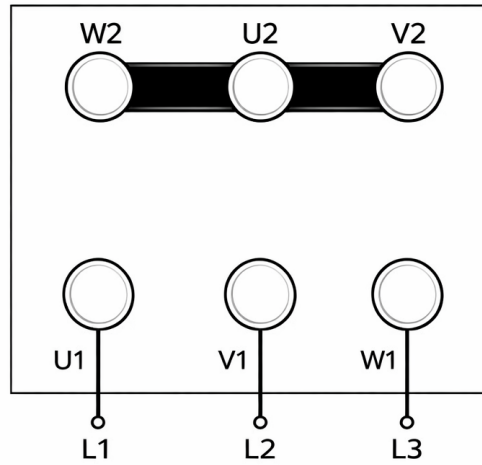
Warranty period is 2 years from delivery against manufacturing defects. Improper installation, user errors, and electrical faults are excluded. Repair time is up to 30 business days after notification.

10. APPENDIX – ELECTRICAL DIAGRAM

*Before making electrical connections, cut off the power and have all electrical work done by authorized personnel.



Δ Connection



Y Connection