

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 before operating the fan.
- Do not operate the fan outside the specified operating limits.
- Ensure that airflow passages are free of foreign objects.

2. GENERAL DESCRIPTION

UVS-KKF series are square duct type centrifugal fans equipped with backward curved impellers. The unit is designed for installation in ventilation duct systems where flexible airflow direction and low noise levels are required. The double-walled insulated housing reduces noise and heat transmission while providing durable operation. The body and impeller are manufactured from galvanized sheet metal.

3. TECHNICAL SPECIFICATIONS

Airflow Range	2,600 to 12,000 m ³ /h
Static Pressure	350 to 1,020 Pa
Impeller	Backward curved impeller
Power Range	210 – 2500 W
Body & Impeller Material	Galvanized sheet metal
Motor Efficiency Class	IE2 / IE3
Protection / Insulation	IP44 / F Class
Frequency	50 Hz
Operating Temperature	-20 to +50 °C
Housing Type	Double-walled insulated casing

4. AREAS OF USAGE

- Ventilation duct systems
- Commercial ventilation installations
- Industrial ventilation systems
- Air supply and exhaust duct applications
- Areas where low noise ventilation is required
- Printing and manufacturing facilities

5. INSTALLATION

The fan is designed for installation inside square ventilation duct systems. Ensure the mounting surface is stable and capable of supporting the unit weight. The fan may be installed in different airflow directions using removable panels. Ensure proper alignment with duct connections. Electrical connections must be performed according to the motor nameplate and wiring diagram.

6. OPERATION

Before starting the fan verify that the supply voltage and frequency correspond to the motor specifications. Ensure that the duct system is properly connected and unobstructed. During operation monitor the unit for abnormal vibration, noise or airflow reduction.

7. MAINTENANCE

Disconnect electrical power before performing maintenance. Inspect the impeller and internal components periodically for dust accumulation. Clean internal surfaces when necessary. Check mounting bolts, removable panels and electrical connections regularly.

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.

