

UVENTS



Installation, Operation & Maintenance Manual

UVENTS Ventilation Systems

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1. SAFETY INFORMATION

- Read this manual carefully before installing or operating the fan.
- 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-DKF series are rectangular duct type centrifugal fans designed for installation inside rectangular ventilation duct systems. The units are manufactured from galvanized steel sheet and equipped with backward curved centrifugal impellers. The fans provide reliable airflow performance while allowing easy maintenance through an inspection cover without removing the unit from the duct system.

3. TECHNICAL SPECIFICATIONS

Airflow Range	500 – 9,800 m³/h (depending on model)
Static Pressure	400 to 1150 Pa
Impeller	Backward curved radial
Drive Options	Direct drive
Body & Impeller Material	Galvanized sheet metal
Power Range	90 – 1550 W
Protection / Insulation	IP44 / F class
Frequency	50 Hz
Operating Temperature	-20 to +50 °C

4. AREAS OF USAGE

- Ventilation duct systems
- Industrial ventilation installations
- Commercial buildings
- Air supply systems
- Exhaust air systems

5. INSTALLATION

The fan is designed for installation in rectangular ventilation ducts. Ensure that the duct dimensions correspond with the fan connection size. The fan should be installed on a stable support structure and aligned properly with the duct system. 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 fan for abnormal vibration, noise or airflow reduction.

7. MAINTENANCE

Disconnect electrical power before performing maintenance. Use the inspection cover to access the motor and impeller assembly without removing the fan from the duct system. Inspect internal components periodically and clean dust accumulation when necessary. Check mounting bolts 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. For models up to DKF 60-35B Scheme 1 on the top left corner must be used. For models DKF 70-40 Scheme 2 on the top right corner must be used. For models 80-50 and 100-50 the scheme 3 at the bottom must be used.

