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.
- The fan is designed for roof-mounted ventilation systems.
- Installation and electrical connections must be carried out by qualified personnel.
- Disconnect electrical power before maintenance or inspection.
- Ensure proper grounding according to IP55 protection requirements.
- Do not operate the fan in explosive or highly corrosive environments unless specifically certified.

2. GENERAL DESCRIPTION

UVS-FTR is a radial roof fan designed for efficient extraction of contaminated air and smoke from industrial facilities and commercial buildings. The fan incorporates a backward curved centrifugal impeller directly connected to the motor. The housing is manufactured from galvanized DKP sheet metal, providing durability and reliable operation. The roof-mounted design allows effective ventilation while protecting the system from weather conditions.

3. TECHNICAL SPECIFICATIONS

Airflow Range	**1,100 to 9,800 m³/h**
Static Pressure	300 to 900 Pa
Voltage	230 V / 380 V
Power Range	0.18 – 2.2 kW
Body Material	DKP steel sheet / galvanized
Impeller Type	Backward curved centrifugal
Protection / Insulation	IP55 / F class
Frequency	50 Hz
Operating Temperature	-20 to +50 °C
Efficiency Class	IE2 / IE3

4. AREAS OF USAGE

- Industrial facilities
- Commercial kitchens
- Smoke extraction systems
- Dirty air exhaust applications
- Ventilation systems requiring roof discharge

5. INSTALLATION

The fan must be installed on a suitable roof base or mounting frame. Ensure the installation surface is stable and capable of supporting the fan weight. Proper sealing between the roof and the fan base must be provided to prevent water leakage. Electrical connections must be made according to the motor nameplate and wiring diagram. Ensure proper grounding before operation.

6. OPERATION

Before starting the fan verify that the supply voltage and frequency match the motor nameplate. For three-phase motors check the rotation direction before full operation. During operation observe the fan for abnormal vibration, noise or overheating.

7. MAINTENANCE

Disconnect the electrical supply before performing maintenance. Periodically inspect the impeller and housing for dust accumulation. Clean internal components when necessary. Ensure that all mounting bolts remain secure. Under normal operating conditions the fan can operate for long periods without maintenance.

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	Obstruction, incorrect rotation direction, impeller contamination	Remove obstruction, check rotation direction, clean impeller

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.