

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 IP44 protection requirements.
- Do not operate the fan in explosive or highly corrosive environments unless specifically certified.

2. GENERAL DESCRIPTION

UVS-RF is a radial roof fan designed for effective air extraction from industrial facilities, kitchens and other environments requiring strong aspiration. The fan incorporates a direct-drive backward curved centrifugal impeller. The housing is manufactured from galvanized DKP steel sheet. The roof-mounted design provides reliable ventilation performance with minimal maintenance requirements.

3. TECHNICAL SPECIFICATIONS

Airflow Range	1,150 to 9,800 m ³ /h
Static Pressure	300 to 900 Pa
Voltage	230 V / 380 V
Power Range	130 – 2750 W
Body Material	DKP steel sheet / galvanized
Impeller Type	Backward curved centrifugal
Protection / Insulation	IP44 / F class
Frequency	50 Hz
Operating Temperature	-20 to +50 °C

4. AREAS OF USAGE

- Industrial facilities
- Commercial kitchens
- Buildings requiring strong roof exhaust
- Ventilation systems with roof discharge
- Facilities requiring reliable air extraction

5. INSTALLATION

The fan must be installed on a suitable roof base or mounting frame. Ensure that 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. Connect the electrical supply according to the motor nameplate and wiring diagram. Ensure proper grounding before commissioning.

6. OPERATION

Before operation 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 noise, vibration or overheating.

7. MAINTENANCE

Disconnect the power 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	Duct blockage, incorrect rotation, contamination on impeller	Remove obstruction, verify motor 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.

