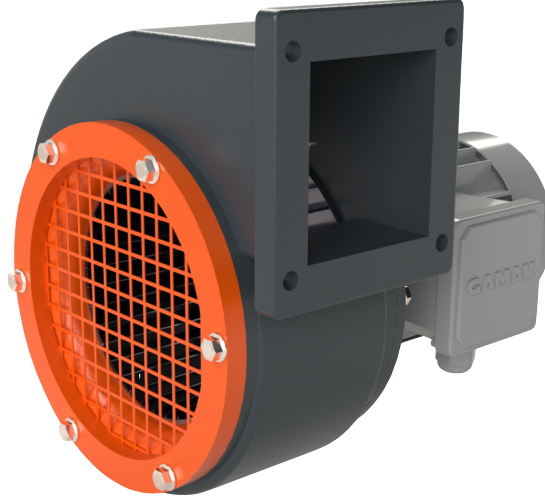


UVENTS



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 according to IP55 protection class requirements.
- Do not operate the fan outside the specified operating limits.
- Prevent foreign objects from entering the fan during operation.

2. GENERAL DESCRIPTION

UVS-AL series are centrifugal radial fans with aluminum cast housing designed for industrial ventilation and process air applications. The compact design allows installation in machinery and industrial equipment where reliable airflow and pressure performance are required. The housing and impeller are manufactured from aluminum to provide durability and resistance to corrosion.

3. TECHNICAL SPECIFICATIONS

Airflow Range	750 to 5,000 m ³ /h
Static Pressure	300 to 1500 Pa
Fan Type	Centrifugal radial fan
Motor Speed	2800 rpm
Insulation /Protection Class	F Class / IP55
Power Range	0.25 – 3 kW
Noise Level	80 – 90 dB(A)
Frequency	50 Hz
Operating Temperature	-20 to +50 °C
Motor Efficiency Class	IE2 / IE3

4. AREAS OF USAGE

- Boiler combustion air systems
- Industrial heating equipment
- Industrial machinery in the jewellery sector
- Mining operations
- Mushroom cultivation facilities
- Plastic injection machines
- Gas and fuel burner air supply systems

5. INSTALLATION

The fan must be installed on a stable mounting surface suitable for the operating conditions. Ensure proper alignment with duct or machine connections. 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 fan verify that the supply voltage and frequency correspond to the motor specifications. Ensure that the airflow path is not obstructed. During operation monitor the fan for abnormal vibration, noise or airflow reduction.

7. MAINTENANCE

Disconnect electrical power before performing maintenance. Inspect the impeller and internal surfaces periodically for dust accumulation. Clean the fan housing and impeller 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 air path, contaminated impeller, incorrect installation	Inspect airflow path, 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.

