

# UVENTS



## **Installation, Operation & Maintenance Manual**

UVENTS Ventilation Systems  
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## 1. SAFETY INFORMATION

- Read and retain this manual before operating the fan.
- Use only for kitchen exhaust and ventilation applications within specified limits.
- Do not use in explosive or highly corrosive atmospheres.
- All electrical work must be performed by qualified personnel.
- Disconnect power before installation or maintenance.
- Ensure proper grounding and electrical protection according to IP54 standards.

## 2. GENERAL DESCRIPTION

UVS-PF is a cabinet type radial kitchen exhaust fan equipped with a backward curved impeller. The unit is designed for discharging polluted air from enclosed spaces or supplying fresh air where required. The body and impeller are manufactured from galvanized and DKP metal sheet. The series provides stable airflow performance and is suitable for commercial and industrial ventilation applications.

## 3. TECHNICAL SPECIFICATIONS

|                          |                                    |
|--------------------------|------------------------------------|
| Airflow Range            | 3,500 to 50,000 m³/h               |
| Static Pressure          | 1100 to 3100 Pa                    |
| Impeller                 | Backward curved radial             |
| Drive Options            | Direct drive                       |
| Body & Impeller Material | Galvanized steel / DKP steel sheet |
| Motor Efficiency Class   | IE2 / IE3                          |
| Protection / Insulation  | IP54 / F Class                     |
| Frequency                | 50 Hz                              |
| Operating Temperature    | -20 to +50 °C                      |

## 4. AREAS OF USAGE

- Kitchen exhaust systems
- Industrial and commercial ventilation systems
- Applications where sound level is important
- Hotels, restaurants, hospitals, cinemas
- Chemical, textile and printing industries

## 5. INSTALLATION

Install the unit according to airflow direction. Ensure rigid duct connections at both suction and discharge openings. The fan must be mounted on a stable, vibration-free surface. Provide sufficient service access space. Electrical connections must be made according to the motor nameplate and wiring diagram. Proper grounding is mandatory.

## 6. OPERATION

Verify that the supply voltage and frequency match the motor nameplate ( $\pm 5\%$ ). Before full operation, check correct rotation direction (for three-phase models). During operation, monitor for abnormal vibration, noise, or overheating.

## 7. MAINTENANCE

Disconnect power before any intervention. Periodically inspect and clean the impeller and internal cabinet surfaces to prevent grease and dust accumulation, especially in kitchen applications. Bearings are maintenance-free under normal operating conditions. Avoid high-pressure cleaning and prevent motor contact with water.

## 8. TROUBLESHOOTING

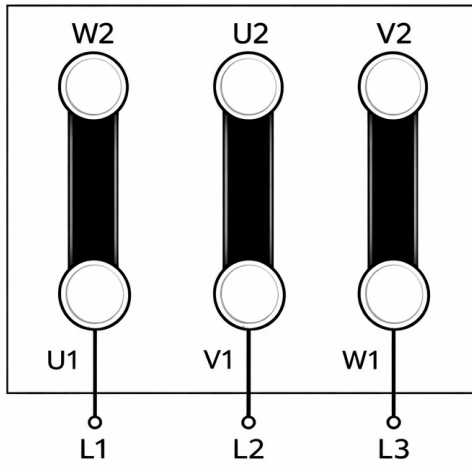
| Issue            | Possible Cause                                         | Solution                                            |
|------------------|--------------------------------------------------------|-----------------------------------------------------|
| Fan not starting | No power / wrong wiring                                | Check supply; verify wiring per diagram             |
| Abnormal noise   | Foreign object or misalignment                         | Inspect impeller/duct; tighten mounts               |
| Low airflow      | Duct blockage, grease accumulation, incorrect rotation | Clean ducts and impeller; verify rotation direction |

## 9. WARRANTY

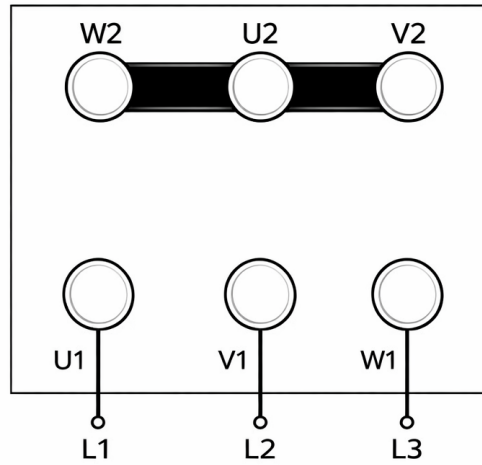
Warranty period is 2 years from delivery against manufacturing defects. Improper installation, user errors, and electrical faults are excluded. Repair time is up to 30 business days after notification.

## 10. APPENDIX – ELECTRICAL DIAGRAM

\*Before making electrical connections, cut off the power and have all electrical work done by authorized personnel.



Δ Connection



Y Connection