

UVENTS



Installation, Operation & Maintenance Manual

UVENTS Ventilation Systems

Muratpaşa Mah. Eski Edirne Asfaltı, Baltaş Kilimci San. Sit. No:3/1-306, Bayrampaşa, İstanbul, Turkey

Tel: +90 212 482 0216 | +90 212 674 8917

Email: sales@uvents.com.tr



1. SAFETY INFORMATION

- Read and retain this manual before operating the unit.
- This fan is designed for car park ventilation and smoke exhaust applications.
- Do not modify the motor or fire-rated components.
- All electrical work must be performed by qualified personnel.
- Disconnect power before installation or maintenance.
- Ensure proper grounding and electrical protection according to IP54 or IP55 standards.
- Fire-rated operation (300°C / 2h or 400°C / 2h depending on model) must only be used under emergency conditions.

2. GENERAL DESCRIPTION

UVS-UJET-A is a smoke exhaust jet fan designed for underground parking lot ventilation systems. Unlike traditional duct systems, jet fans move air directly within the parking area, reducing duct losses and friction. The unit provides both daily ventilation and emergency smoke extraction functions. The body is manufactured from galvanized steel and the impeller is aluminum. The series is suitable for efficient air movement in enclosed parking structures.

3. TECHNICAL SPECIFICATIONS

Airflow Range	2,320 to 17,900 m³/h
Noise Level	71 to 95 dB(A) at 1.5 m
Thrust Force	6 to 152 N
Drive Options	Direct drive
Body Material	Galvanized
Motor Efficiency Class	IE2 / IE3
Protection / Insulation	IP54 / F Class
Frequency	50 Hz
Operating Temperature	-20 to +50 °C (continuous operation)
Fire Resistance	300°C / 2h or 400°C / 2h (depending on model)

4. AREAS OF USAGE

- Underground parking lots
- Enclosed car parks
- Smoke extraction systems
- Tunnel ventilation systems
- Large enclosed spaces requiring ductless air movement

5. INSTALLATION

The unit is designed for ceiling-mounted installation in parking structures. Install the fan according to the airflow direction specified on the casing. Ensure rigid suspension using appropriate mounting brackets and vibration isolation components. Maintain sufficient clearance around the unit for safe operation and maintenance. Electrical connections must be made according to the motor nameplate and wiring diagram. Proper grounding is mandatory. Installation for smoke extraction systems must comply with local fire safety regulations.

6. OPERATION

Verify that supply voltage and frequency match the motor nameplate ($\pm 5\%$). Before full operation, check correct rotation direction (for three-phase models). During normal ventilation mode, monitor for abnormal vibration, noise, or overheating. Fire-rated operation is intended for emergency smoke extraction conditions only.

7. MAINTENANCE

Disconnect power before any intervention. Periodically inspect and clean the impeller and protective grille. Check suspension brackets and mounting components for secure fixation. Inspect motor and electrical connections regularly. Fire-rated components must not be altered or modified. Bearings are maintenance-free under normal operating conditions.

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
Insufficient airflow / thrust	Incorrect rotation, obstruction, improper installation	Verify rotation direction; remove obstruction; inspect mounting alignment

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.

