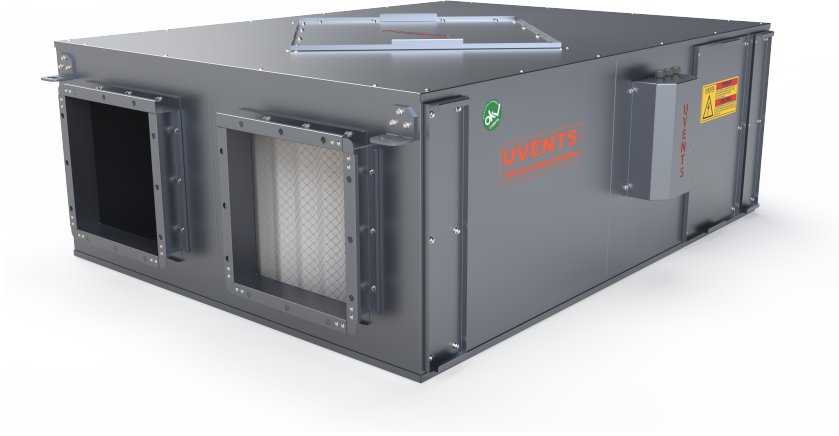


UVENTS



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 fan.
- Use only for intended applications within specified limits.
- Do not use in explosive/corrosive atmospheres.
- All electrical work must be performed by qualified personnel.
- Disconnect power before maintenance.

2. GENERAL DESCRIPTION

UVS-IGK is a heat recovery unit equipped with high-efficiency plug fan technology and a high-efficiency plate heat exchanger. The unit is designed with a compact structure, low noise level, and easy installation/maintenance access. It includes EU-4 class fiber filtration and an electronic control panel, with infinitely variable (stepless) speed control for flexible airflow adjustment.

3. TECHNICAL SPECIFICATIONS

Airflow Range	1,800 to 6,000 m³/h
Static Pressure	400 to 800 Pa
Impeller	Plug fan (radial type)
Drive Options	Direct drive (plug fan design)
Body & Impeller Material	Galvanized
Power range	1,380 to 2,670 W
Protection / Insulation	IP54 / F class
Frequency	50 Hz
Operating Temperature	-20 to +50 °C

4. AREAS OF USAGE

- Heat recovery applications in ventilation systems (fresh air & exhaust air)
- Commercial and industrial ventilation where energy efficiency and compact design are needed
- Projects requiring variable airflow control and low noise operation

5. INSTALLATION

Install the UVS-IGK unit according to the airflow direction and connection orientation shown on the product label/drawing. Ensure duct connections are properly aligned and sealed for both air streams. Leave sufficient service space to access the filter section, heat exchanger section, and control panel for periodic maintenance. Electrical connections must be performed by qualified personnel according to the unit's electrical diagram and control panel requirements, and the unit must be properly grounded.

6. OPERATION

Before start-up, confirm the supply voltage matches the model rating (230 V or 380 V as applicable) and that all access panels are closed securely. Start the unit and verify smooth operation without abnormal vibration or noise. The UVS-IGK supports variable speed control; adjust airflow gradually as needed. During operation, monitor airflow performance and check filters periodically, as clogged filters may reduce airflow.

7. MAINTENANCE

Disconnect power before any maintenance. Perform periodic inspections based on site conditions. Clean or replace the EU-4 class fiber filters as required to maintain airflow performance. Inspect the plug fan section and remove any dust buildup or foreign objects. Inspect the plate heat exchanger surfaces and clean carefully if needed (avoid aggressive chemicals). Check the electronic control panel and wiring terminals periodically for secure connections. The plug fan design is direct drive; there are no belts to tension.

8. TROUBLESHOOTING

Issue	Possible Cause	Solution
Fan not starting	No power / control panel issue / wiring fault	Check supply; verify wiring; check control panel status
Abnormal noise	Foreign object / dust buildup on plug fan	Inspect fan section; clean and remove debris
Low airflow	Clogged EU-4 filter / dirty heat exchanger / incorrect speed setting	Clean/replace filter; clean exchanger; adjust speed control

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.

