LEV-FILTER: The Definitive Solution for Industrial Anti-Condensation and Air Purification

Engineered to control humidity, eliminate airborne contaminants, and create a healthy, productive workspace.

The Unseen Threats Compromising Your Industrial Environment

Industrial and workshop environments face constant air quality challenges that impact equipment integrity, process efficiency, and workforce health.

Pervasive Humidity & Condensation

Excess atmospheric moisture leads to condensation on surfaces, causing water-related damage, fostering mold growth, and disrupting sensitive processes.

Airborne Contaminants & Odors

Poor air circulation allows mold and unpleasant odors to develop, creating an unhealthy and unproductive workspace.

Harmful Gas Accumulation

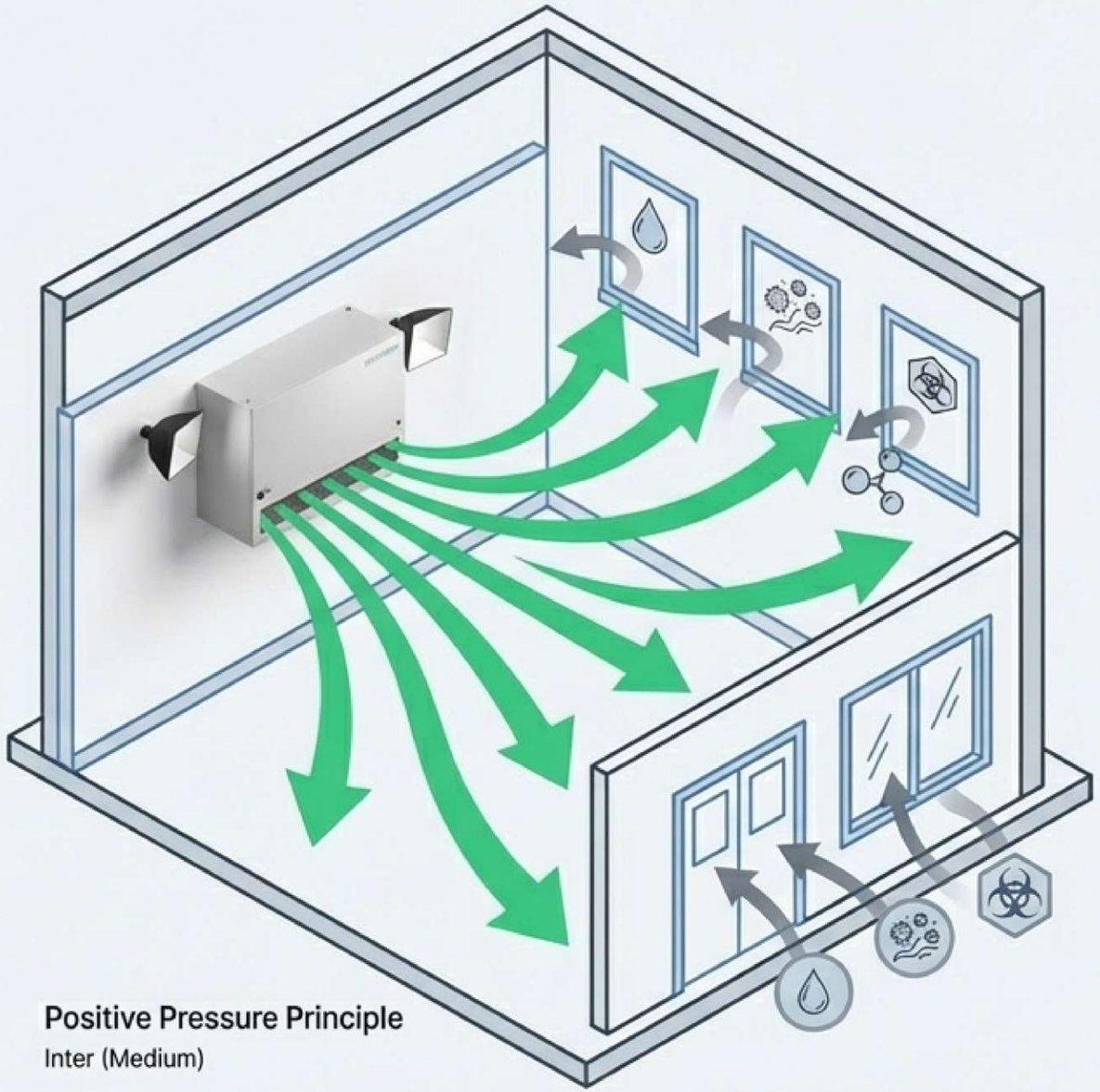
Invisible threats, including naturally occurring radon gas, can accumulate in poorly ventilated spaces, posing a serious long-term health risk to personnel.

Engineered Control: How LEV-FILTER Establishes a Healthier Atmosphere

The LEV-FILTER is a pure air insufflation system designed to proactively manage and resolve atmospheric issues. By creating positive pressure with continuously renewed and purified air, it definitively prevents the ingress of pollutants and the formation of condensation.

Primary Functions:

- **Humidity & Condensation Control:** Actively combats moisture formation on all surfaces.
- **Atmospheric Purification:** Mitigates mold development and eliminates odors.
- **Harmful Gas Mitigation:** Reduces concentrations of harmful gases, with specific efficacy against radon.



Positive Pressure Principle

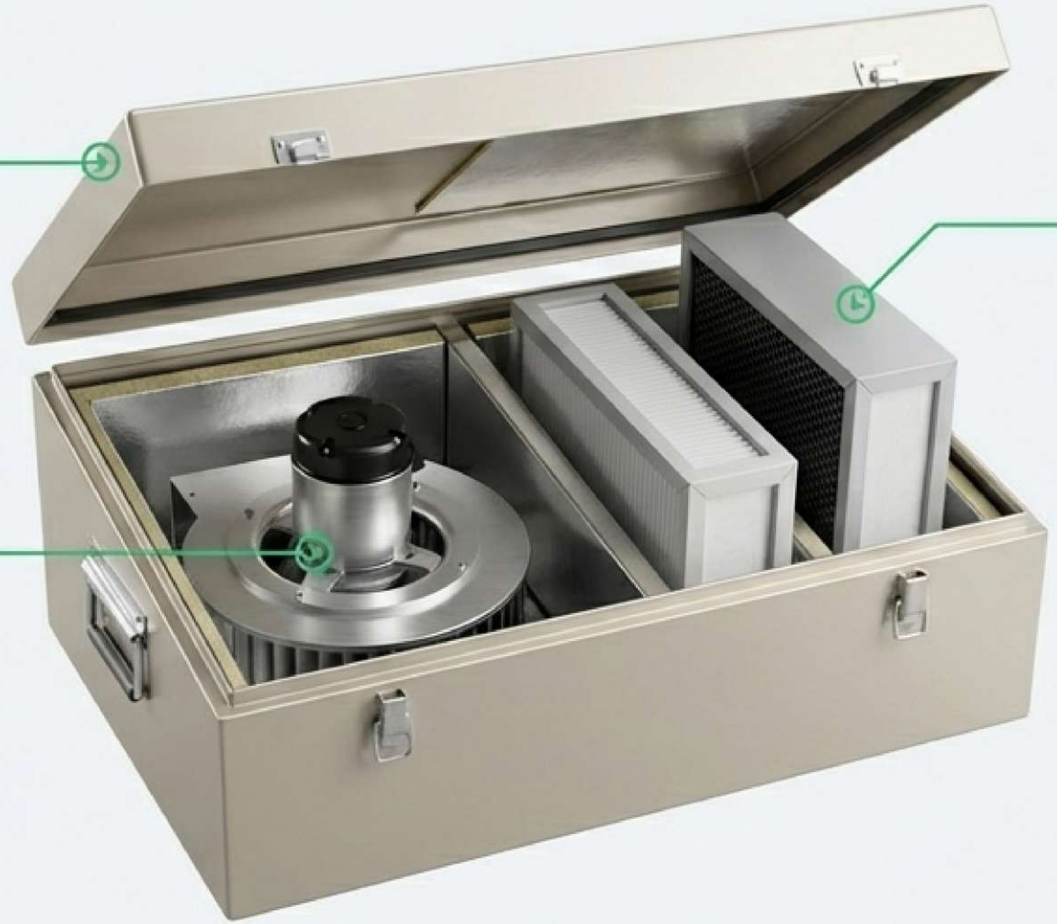
Inter (Medium)

Deconstructing Excellence: The Three Pillars of LEV-FILTER Engineering

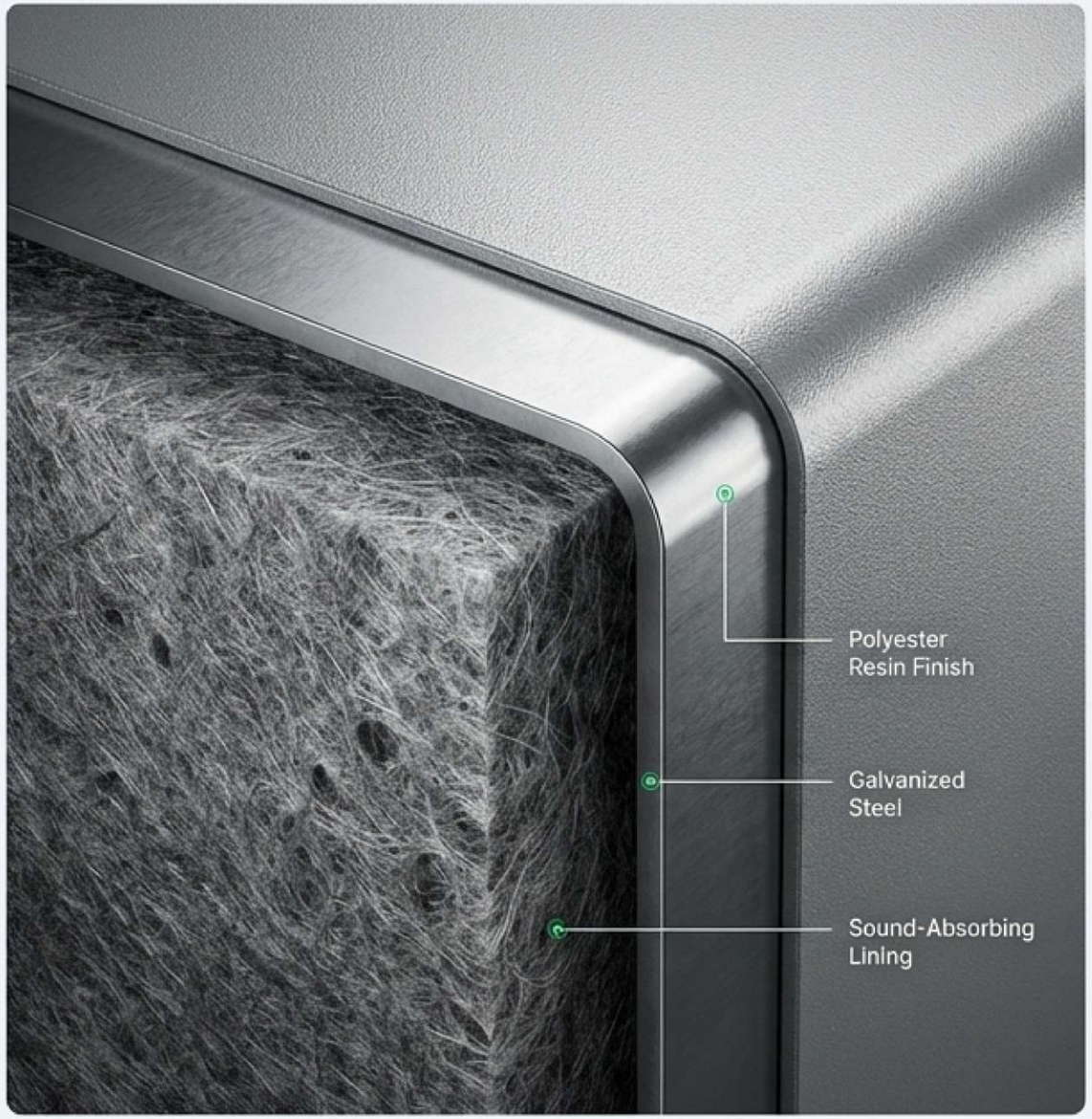
Every component of the LEV-FILTER is a deliberate design choice aimed at durability, performance, and purity. We can understand its superior engineering by examining its three core systems.

The Armor: Robust, silent, and corrosion-proof housing.

The Engine: A high-performance, reliable, and safe power core.



The Lungs: A multi-stage system for comprehensive air purification.



The Armor: Built to Last, Engineered to be Silent

The casing provides a rugged, acoustically insulated barrier, protecting the internal components while minimizing operational noise in the work environment.

Key Construction Details:

Material: Constructed from high-grade Galvanized Steel Sheet for a strong and rigid housing.

Anticorrosive Finish: Protected by a polyester resin finish, polymerized at 190°C following a nanotechnological degreasing and phosphating treatment for maximum coating adhesion and resilience.

Acoustic Insulation: The interior of the casing is lined with a high-density, sound-absorbing material to significantly reduce operational noise.

The Engine: Reliable Power for Continuous Operation

The core of the system is an industrial-grade motor and turbine assembly engineered for efficient airflow, safety, and a long service life under demanding conditions.

Key Motor & Turbine Specifications:

Motor Type: External Rotor Motor for a compact and efficient design.

Turbine Design: A multi-layer turbine ensures efficient and reliable air movement.

Safety & Durability:

- Features a **built-in thermal protector** to prevent overheating.
- **Class F insulation** allows the motor to withstand higher operating temperatures.
- **IP 54 protection class** ensures resilience against dust and water splashes.

Bearings: Utilizes high-quality ball bearings for quieter, more reliable operation.

The Lungs: A Multi-Stage Air Purification System

The filtration system is central to achieving superior air quality. It is designed to capture particulates and odors before the air is introduced into the workspace.

Standard Equipment

Inter (Medium, #2ECC71)

Component: Two (2) Anti-Pollen Particle Filters.

Function: Captures pollen and other common airborne particles to clean the incoming air.

Dimensions: 282 x 194 x 48 mm

Optional Equipment

Inter (Medium, #2ECC71)

Component: Anti-odor Activated Carbon Filter.

Function: Specifically designed to adsorb and remove unpleasant odors from the air for advanced purification.

Dimensions: 282 x 194 x 48 mm

Quantified Performance: The Data Behind the Design

The engineering of the LEV-FILTER translates into guaranteed performance values, providing the precise metrics needed for system integration and operational planning.

Metric	Value
Maximum Flow Rate	300 m^3/h
Rotational Speed	2,220 rpm
Max. Operating Temp. (Air)	+50°C
Approximate Weight	9.10 kg
Installed Power	0.08 kW

Precision Control, Optimized Efficiency

The LEV-FILTER is designed for both high performance and economical operation, with adjustable controls to tailor its output to the specific volume and needs of your space.

Adjustable Speed Control:

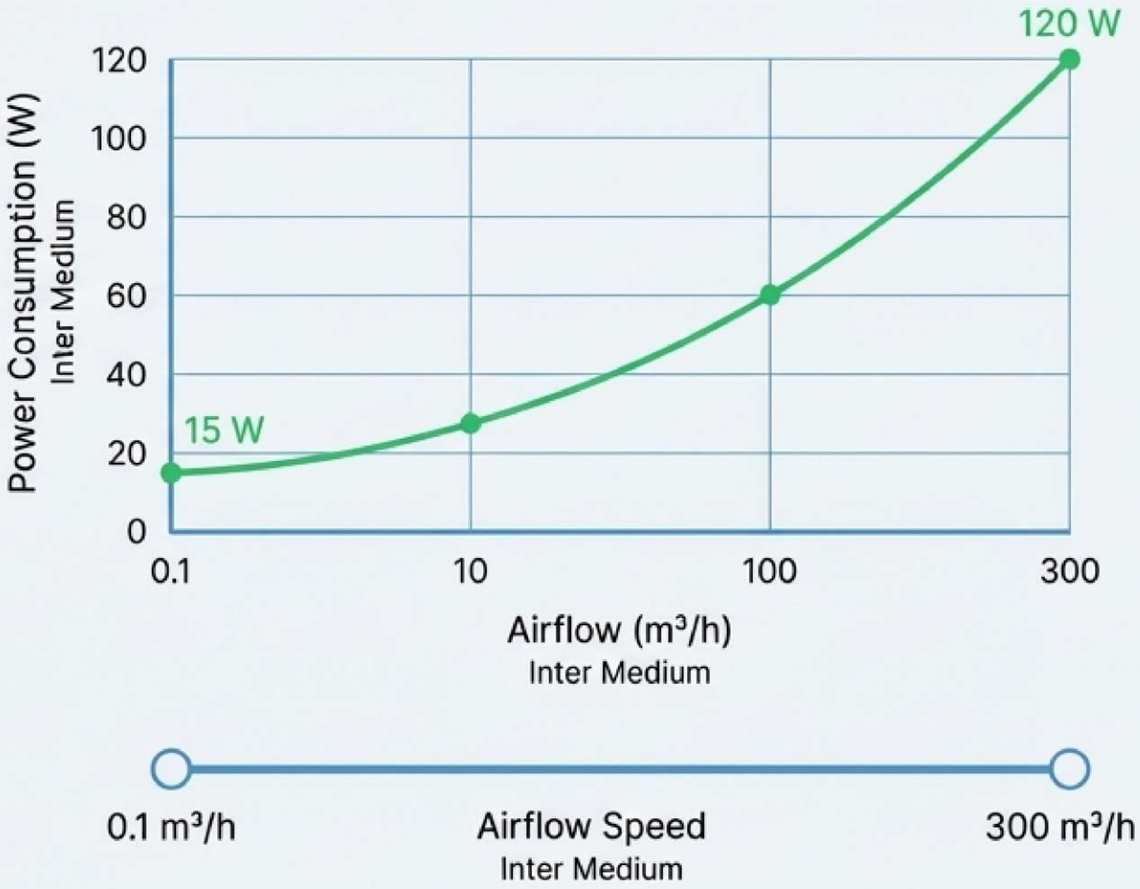
- Allows for fine-tuning of low-volume airflow, adjustable from 0.1 m^3/h to 6 m^3/h.
- This control operates within the unit's total maximum capacity of 300 m^3/h.

Optimized Power Consumption:

- The adjustable speed directly optimizes energy use.
- Power consumption ranges from an economical 15 W to 120 W, dependent on the conditioned space volume (m^3).

Benefit:

- This versatility makes the LEV-FILTER an adaptable and cost-effective solution for comprehensive air treatment.



Complete Motor and Electrical Specifications

The following specifications are critical for proper electrical integration and ensuring safe, reliable, long-duration industrial use.

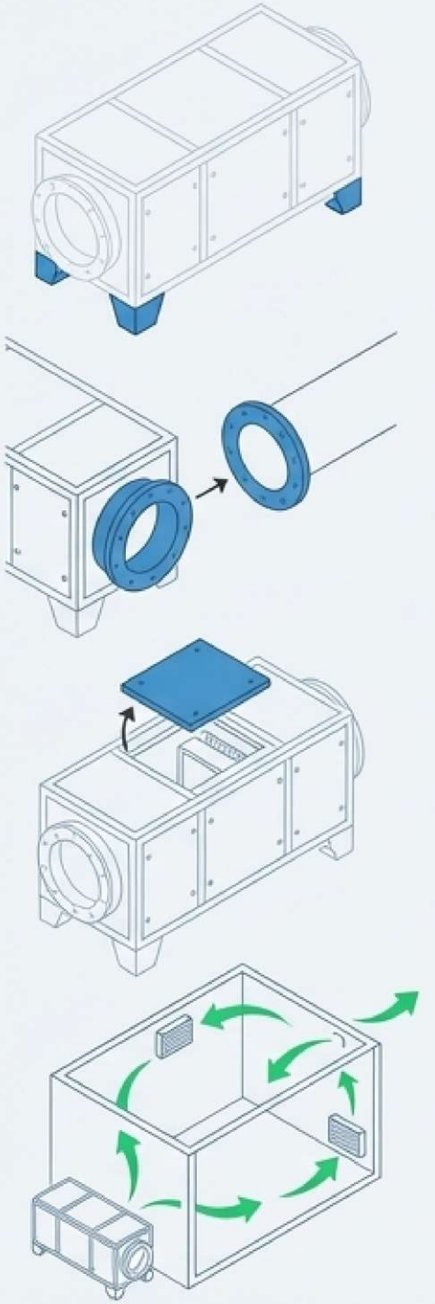
Specification	Detail
Motor Type	External Rotor Motor
Voltage	Single-phase 230 V (50/60 Hz adjustable)
Maximum Current Intensity	**0.65 A**
Installed Power	**0.08 kW**
Protection Class	IP 54
Insulation Class	Class F
Bearings	Ball bearings
Safety Feature	Built-in thermal protector

Designed for Seamless Facility Integration

The LEV-FILTER is engineered for straightforward mounting and integration into new or existing facility layouts, minimizing installation complexity and downtime.

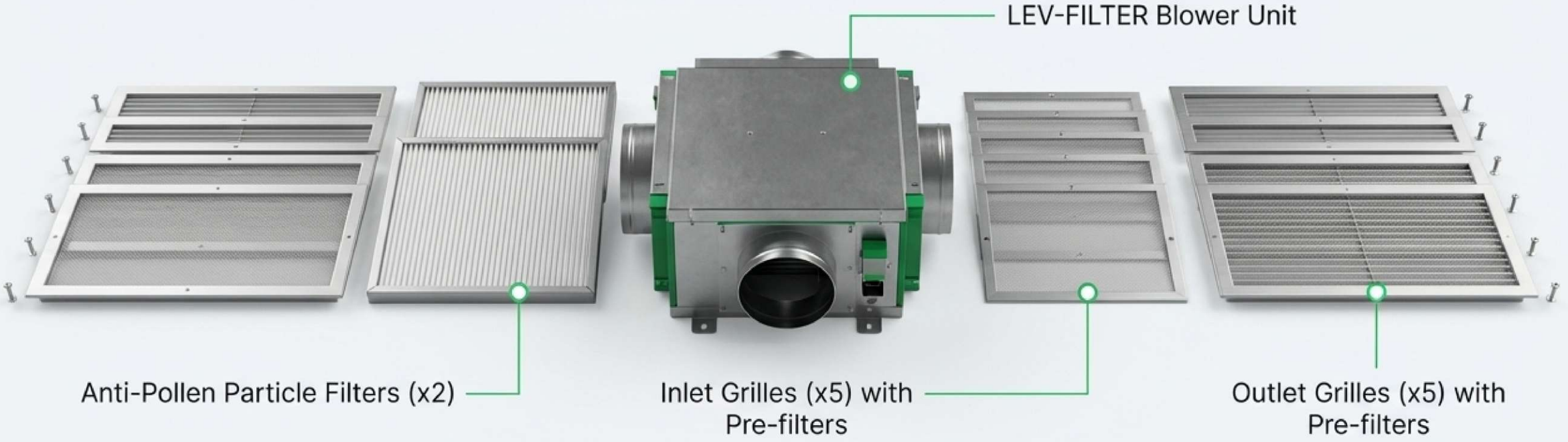
Key Installation Features:

- **Easy Mounting:** Equipped with **four integrated support feet** for stable and secure positioning.
- **Standard Connections:** Features **standard flanges** for simple, airtight connection to facility ductwork.
- **Simplified Maintenance Access:** An **easily accessible inspection cover** allows for quick access to internal components for service.
- **Optimal Air Circulation:** Installation guidance recommends placing air outlets in both lower and upper areas of walls to ensure adequate air renewal throughout the space.

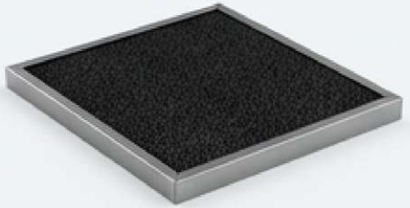


A Complete System for Comprehensive Air Renewal

The standard LEV-FILTER unit is supplied with all the necessary components for a comprehensive installation, ensuring effective air distribution across your entire space.



Optional Equipment:
Anti-odor Activated Carbon Filter



A Clear Path to Long-Term Reliability

Adherence to a simple and consistent maintenance schedule is essential for maximizing the product's operational lifespan and ensuring sustained high performance. The LEV-FILTER is designed for easy serviceability.

Filter Cleaning

Frequency: Every `4-6` months.

Procedure: Clean the anti-pollen filters thoroughly using a vacuum cleaner. Do not use water or solvents.

Filter Replacement

Expected Service Life: Approximately `2-3` years with proper and regular cleaning.

Procedure: Disconnect power, open the inspection cover, and replace with new filters.

An Investment in a Healthier, More Productive Environment Environment

The LEV-FILTER is more than an anti-condensation blower; it is a foundational component of a modern, safe, and efficient industrial workspace.

By delivering a **definitive solution** to humidity, condensation, odors, and harmful gases like radon, the LEV-FILTER directly contributes to:

Protecting Assets: Preventing moisture-related damage to equipment and infrastructure.

Ensuring Health: Creating a healthier atmosphere for all personnel.

Boosting Productivity: Fostering a more comfortable and productive work environment.

Help Us Help You

Innovation in Protection.

The information provided is based on extensive practical experience and laboratory testing.
We recommend practical tests to ensure compatibility for each specific application.

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