



# Thunder Air-700

A Reliable Air System for Safer Workspace.

Pure Air. Longer Life. Lower Costs.





# The Ultimate High-Performance Fume Extractor

Thunder Air delivers exceptional air purification performance for general manufacturing and professional workshop environments.

Powered by high-volume airflow and an advanced 5-stage filtration system, it efficiently captures contaminants across multiple particle sizes and forms, while thoroughly removing gaseous pollutants and volatile organic compounds (VOCs). The result is clean, odor-free, particulate-free exhaust air that meets even the strictest air quality standards.



Optimized bottom-to-top Airflow

70% Higher VOC Adsorption

40-Layer Fire Defense

HEPA Lifetime Up to **18-Month**

5-Stage Filtration System

- H13 HEPA
- F8 Medium Filter
- SS Protection
- MOF Carbon + H11
- G4 Pre-Filter

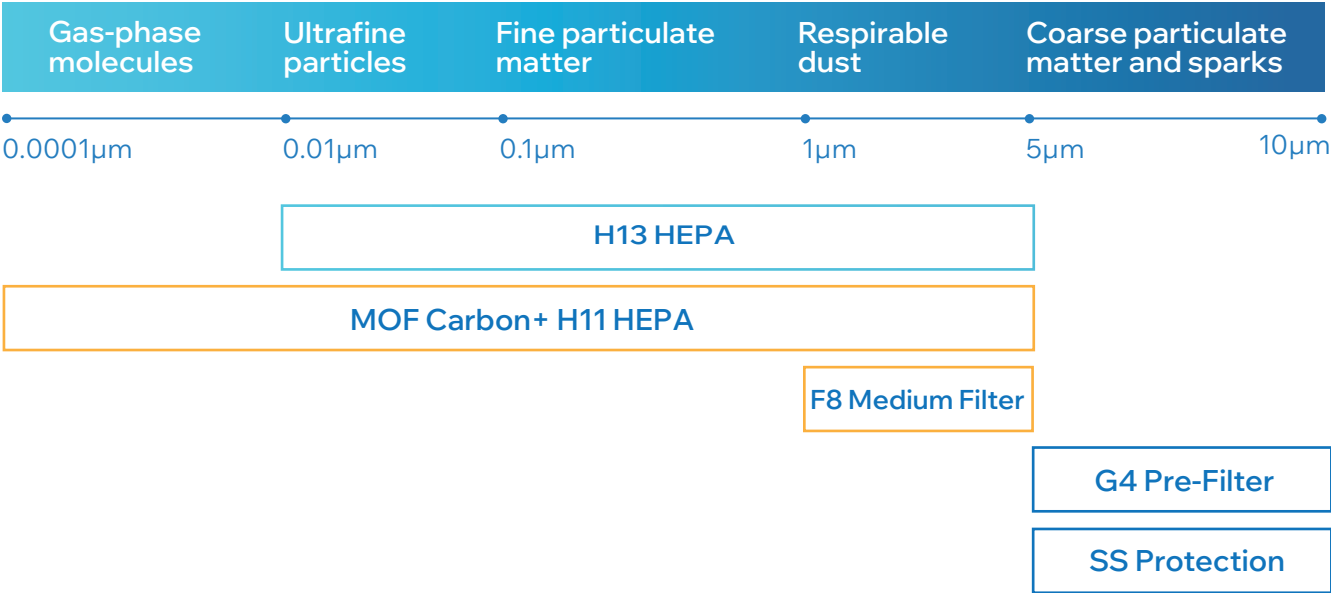
Tool-Free Filter Replacement

≤65 dB

Smart Filter Monitoring

Up to **700 m<sup>3</sup>/h** Airflow & **4000 Pa** Pressure

## Full-Spectrum Particle Filtration

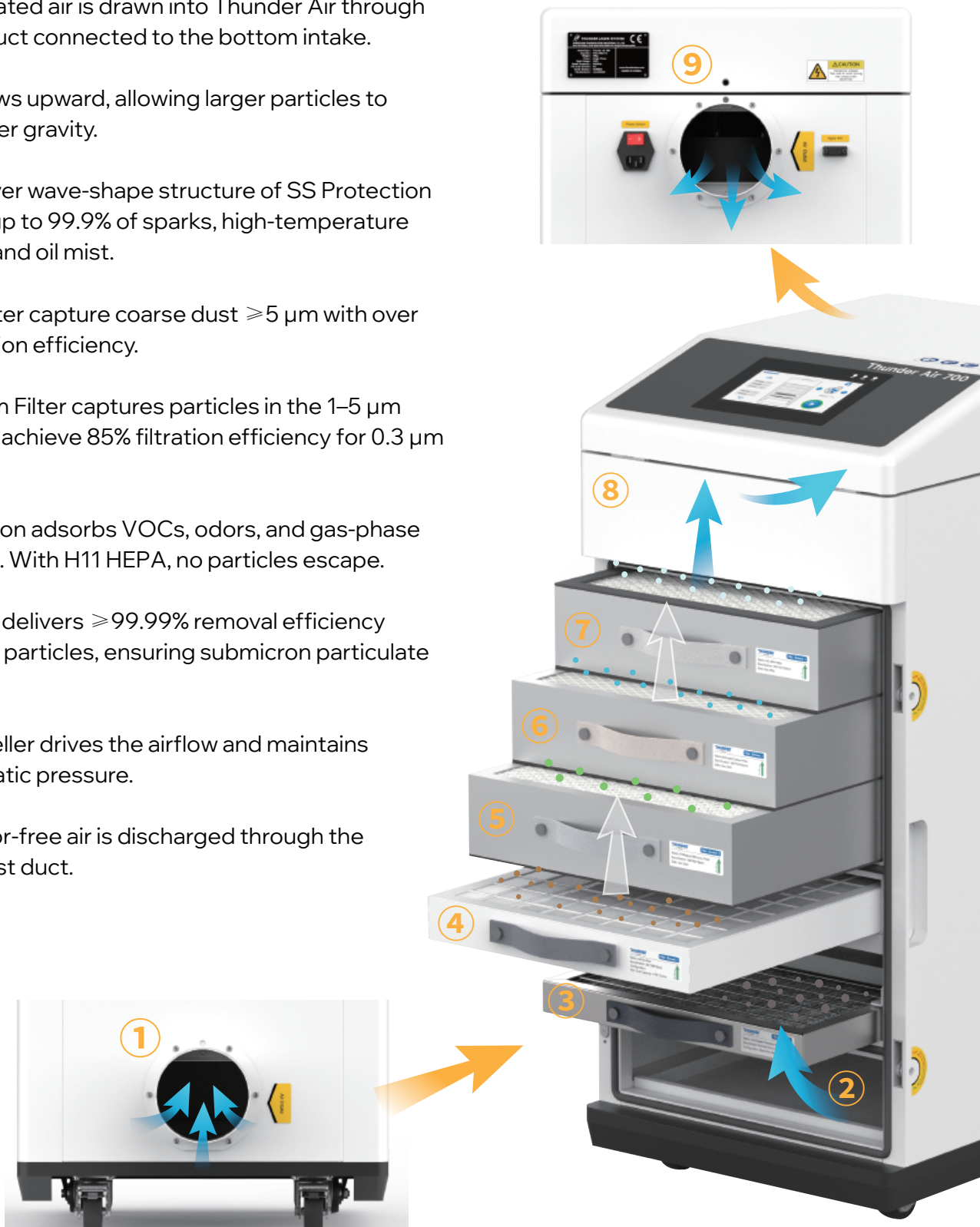




# Working Principle of Thunder Air

Thunder Air uses high static pressure to rapidly draw contaminated air into the system. The optimized airflow path then guides the air through a multi-stage filtration structure, where pollutants are removed step by step to ensure stable and consistent purification performance.

- ① Contaminated air is drawn into Thunder Air through the inlet duct connected to the bottom intake.
- ② The air flows upward, allowing larger particles to settle under gravity.
- ③ The 40-layer wave-shape structure of SS Protection captures up to 99.9% of sparks, high-temperature particles, and oil mist.
- ④ G4 Pre-Filter capture coarse dust  $\geq 5 \mu\text{m}$  with over 85% filtration efficiency.
- ⑤ F8 Medium Filter captures particles in the  $1\text{--}5 \mu\text{m}$  range and achieve 85% filtration efficiency for  $0.3 \mu\text{m}$  particles.
- ⑥ MOF Carbon adsorbs VOCs, odors, and gas-phase molecules. With H11 HEPA, no particles escape.
- ⑦ H13 HEPA delivers  $\geq 99.99\%$  removal efficiency for  $0.3 \mu\text{m}$  particles, ensuring submicron particulate control.
- ⑧ A fan impeller drives the airflow and maintains system static pressure.
- ⑨ Clean, odor-free air is discharged through the top exhaust duct.





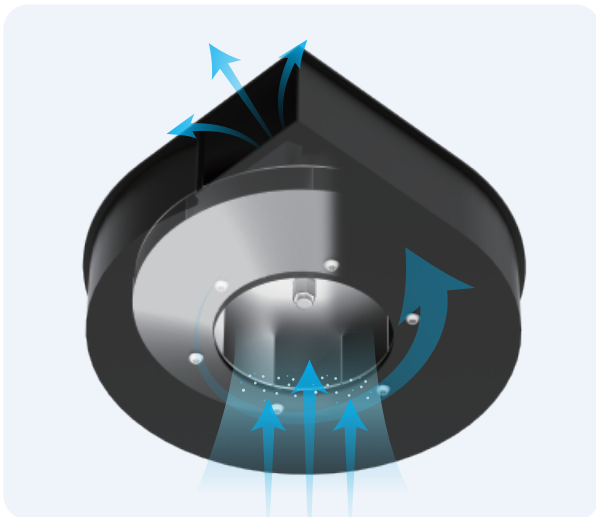
# Engineered to Perform



## Last Longer, Cost Less

The bottom-to-top airflow lets heavier particles settle naturally, while the washable SS Protection captures sparks and oil, effectively preventing premature clogging of downstream filters.

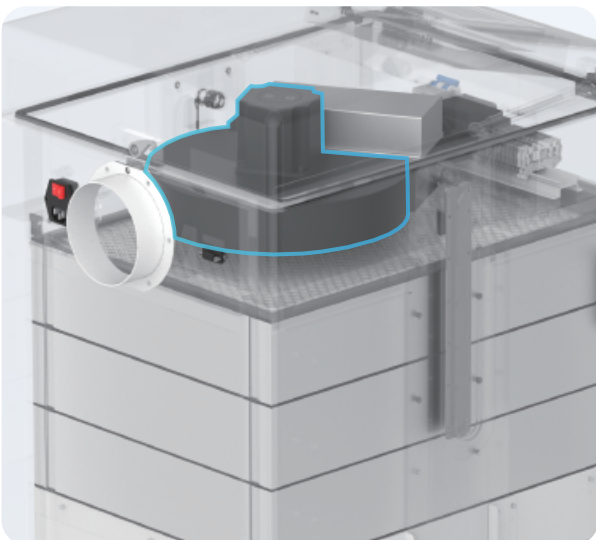
- Up to 18-month Filter Lifetime
- Lower Long-Term Operating Costs



## Power That Stays Strong Over Time

A high-speed centrifugal fan combined with a clog-resistant 5-stage filtration system maintains stable pressure, ensuring long-lasting suction without performance loss.

- Up to 700 m<sup>3</sup>/h Airflow
- Up to 4000 Pa Static pressure

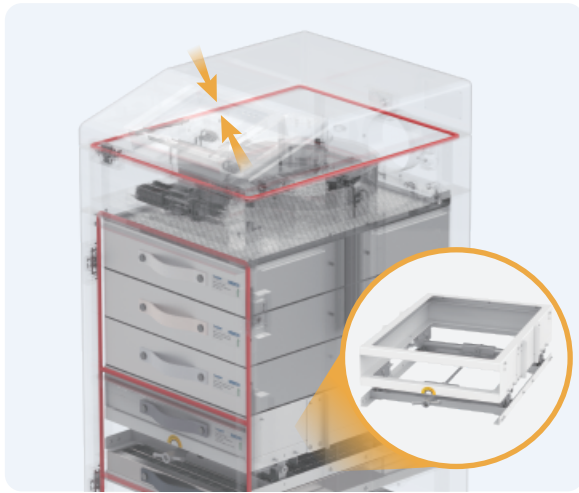


## Top-Mounted Fan for Stronger Performance

The top-mounted fan design maximizes internal space, allowing for a larger collection chamber and longer operation. Compared with other models, it delivers higher extraction efficiency and lower noise.

- Larger Dust Collection Area
- 15% Higher Airflow Efficiency
- ≤ 65 dB Low Noise

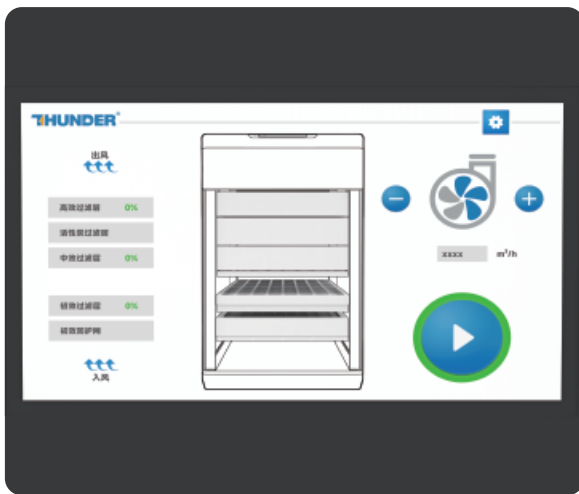




## All-Round Safety Guard

The system integrates fire-retardant SS protection, a fully sealed enclosure, and damping modules to suppress ignition, prevent exhaust leakage, and minimize vibration for safer operation.

- 99.99% Spark Interception
- <0.01% Exhaust Leakage
- Vibration Amplitude <10%



## Smart Filter Monitoring

Equipped with PLC control and differential pressure monitoring, Thunder Air provides real-time filter status tracking and visual display. When maintenance is needed, the system issues an alert.

- 0~70%: Filter Normal
- 70~90%: Filter Partially Clogged
- 90~100%: Filter Replacement Required



**Low Noise Operation**  
≤65 dB Even at Full Power



**Quick-Change Filter**  
Tool-free Replacement



**Lockable Wheels**  
Move Easily, Stay Firmly in Place



**Debris Collection Tray**  
Easy to Maintain

## Versatile Air Protection for Every Workplace



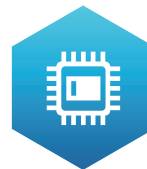
Laser  
Processing



Welding



3D Printing



Electronics  
Assembly



STEAM  
Education



# Compatible Thunder Laser Models



## Bolt Series

- Bolt
- Bolt Plus 24
- Bolt Pro 36



## Nova Series

- Nova 24
- Nova 35



## Nova Plus Series

- Nova Plus 24
- Nova Plus 35



## Titan Series

- Titan 27
- Titan 35
- Titan Pro 27
- Titan Pro 35



## Aurora Series

- Aurora Lite
- Aurora MOPA
- Aurora Fiber
- Aurora UV

## Technical Specifications

Product	Thunder Air 700
Dimensions	475x605x1003 mm/18.70"x23.82" x39.49"
Airflow	MAX. 700 m <sup>3</sup> /h / 412 cfm
Air Pressure	MAX. 4000 Pa
Compatible Voltage	220 V
Noise Level	≤65 dB
Weight	95 Kg / 209.44 lb
Power	600 W
Airflow Adjustment	5 Levels
Touch Sceen	7" Touchscreen
Air Duct	Ø100 mm (Standard), 150 mm, 200 mm (Optional)
Control Mode	PLC-controlled speed regulation and differential pressure signal alarm
5-stage Filtration System	<ul style="list-style-type: none"><li>• SS Protection — 99.99% fire protection</li><li>• G4 Pre-Filter — ≥85% efficiency (≥5 μm)</li><li>• F8 Medium Filter — ≥85% efficiency (0.3 μm)</li><li>• MOF Carbon + H11 — Gas-phase molecules &amp; VOC adsorption</li><li>• H13 HEPA — 99.99% efficiency (0.3 μm)</li></ul>

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