



E2600 FILTER HOUSING

Advanced protection for optics and resists

Overview

Entegris E2600 filter housings are used to chemically purify atmospheric pressure air used in the air handling systems of microlithography equipment, including exposure tools and photoresist coater/developer tools. The E2600 is used as the primary filtration system in many applications and as a make-up air filter for elevated fab ambient contamination levels.

The E2600 filter housings are designed for use with Entegris' chemical air filters to protect chemically amplified photoresists and exposed optical surfaces by purifying the air entering exposure tool and coater/developer process tool enclosures.

When equipped with Entegris hybrid media chemical air filters (VaporSorb® CSP Series), the E2600 filter housing offers advanced protection against airborne molecular acids, bases and condensable organic compounds.

Inside the E2600, specialized chemical filters are arranged in a multistage serial configuration to provide unparalleled protection against elevated contamination events such as accidental spills of solvents and developer chemicals.

In addition, the E2600 housing incorporates Entegris' interstack sample port design to facilitate testing and provide advanced warning of filter breakthrough.

Scanner Performance

- >99% initial removal efficiency of targeted airborne molecular contaminants: acids, acid forming species, molecular bases and amines, and condensable organic compounds defined as those with boiling points above 150°C
- >24 months of filter life when used in Entegris filter housings at rated flow and typical cleanroom ambient molecular contamination levels

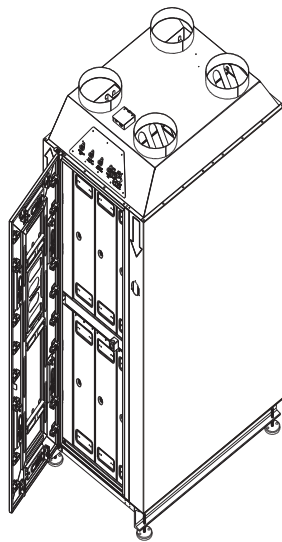


Features and Benefits

- Hybrid media chemical air filters remove a full range of contaminants including acids, bases and condensable organics
- Internal HEPA filters ensure particle control
- Interstack sampling ports allow filter performance monitoring, breakthrough-warning and intelligent filter change out planning
- Small footprint saves cleanroom space
- Rigid construction ensures reliable, trouble-free operation
- Chemically clean construction materials ensure contamination-free air to the process tool
- Dual inlet and outlet transitions for simple, hard or flexible duct connection to process tool air handling system

Specifications

| Item | Specification |
|---------------------|---|
| Length | 1,200 mm (47.24") |
| Width | 838 mm (33.0") |
| Height | 1,842 mm (72.5") |
| Flow (max.) | 2,600 m ³ /hr (1,530 cfm) |
| Clean Dry Air (CDA) | 655 kPa (95 PSIG) Negligible flow Compression fitting |



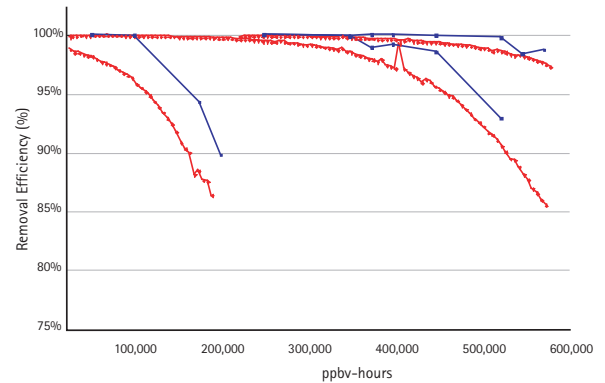
The E2600 filter housing with door opened to show multistage serial filter layout. A total of 12 filters are used to optimize filter performance.

Filter Testing Lab

Entegris offers an advanced test laboratory providing full-scale filter testing to determine service life and removal efficiency. Such testing is used to develop filter media for maximum life at removal efficiencies of >99%, often demanded by advanced 193 nm lithographic processes.

In addition, Entegris offers an array of analytical and testing services to characterize airborne molecular contamination and filter performance. Services include cleanroom and process equipment testing along with design consultation.

E2600 Filter Test
Advanced Scanner



Shown above is test data from the E2600 mixed challenge filter qualification. Ammonia (red) is shown in successive breakthrough of the three filters in series. Condensable organic data is shown in blue.

For More Information

To find out more about what Entegris can do for you, please call one of our Regional Customer Service Centers today.

Entegris Regional Customer Service Centers

| | Telephone | Fax |
|----------------------|-----------------|------------------|
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| Japan | 81-3-5442-9718 | 81-3-5442-9738 |
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The materials integrity management company

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