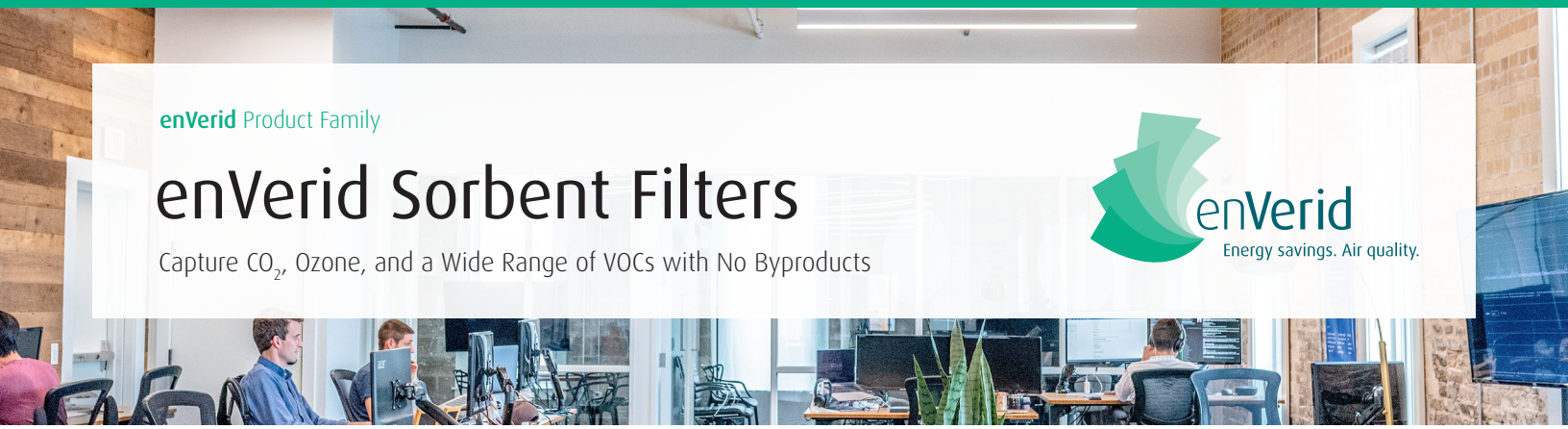


enVerid Product Family

enVerid Sorbent Filters

Capture CO_2, Ozone, and a Wide Range of VOCs with No Byproducts

enVerid
Energy savings. Air quality.

Air Cleaning for Gaseous Contaminants

The enVerid Sorbent Filter is a field-replaceable filter that delivers proven, long-lasting air cleaning for gaseous contaminants such as CO_2, ozone, and a wide range of volatile organic compounds (VOCs), including formaldehyde, without producing any byproducts.

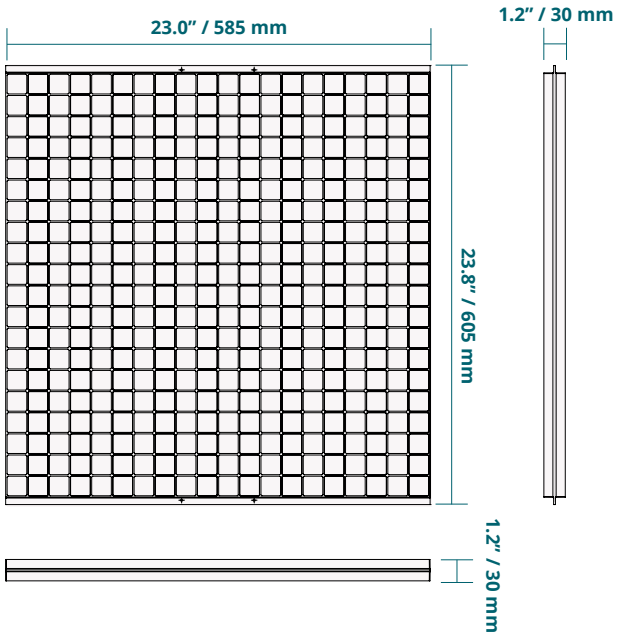

Model SVT-250

enVerid Sorbent Filters improve indoor air quality, save energy, and reduce the cost of new HVAC equipment by reducing outside air requirements by up to 80% when deployed in accordance with the ASHRAE IAQ Procedure. The enVerid Sorbent Filter is designed for use in any HVAC system that incorporates Sorbent Ventilation Technology™ (SVT).

enVerid Sorbent Filters capture airborne contaminants through a process by which contaminant molecules attach to the surface of the sorbent material as air passes through the filter. Sorbent Filter efficiency for a representative list of design compounds specified by ASHRAE, as well as CO_2, has been proven through rigorous testing by accredited independent labs. Third-party tests have also confirmed that enVerid Sorbent Filters do not produce any VOC or ozone byproducts.

Sized for Easy Replacement

SPECIFICATIONS *Model SVT-250*	
WIDTH	23.0" / 585 mm
LENGTH	23.8" / 605 mm
THICKNESS	1.2"/ 30 mm
WEIGHT	16.5 lbs / 7.5 kg



Addendum aa to Standard 62.1-2019 published 2/14/22

Table 6.5 Design Compounds[1], PM2.5, Design Limits and Efficiencies

(Efficiencies based on ASHRAE 145.2 and 52.2 test methods)

DESIGN COMPOUND	DESIGN TARGET	EFFICIENCY
Acetaldehyde	140 µg/m3	99%
Acetone	1200 µg/m3	99%
Benzene	3 µg/m3	87%
Dichloromethane	400 µg/m3	54%
Formaldehyde	33 µg/m3	99%
Naphthalene	9 µg/m3	87%
Phenol	10 µg/m3	60%
Tetrachloroethylene	35 µg/m3	54%
Toluene	300 µg/m3	52%
1,1,1-trichloroethane	1000 µg/m3	54%
Xylene, total	500 µg/m3	60%
$PM_{2.5}$ / Particulate Matter	12 µg/m3	MERV 11
Ozone	70 ppb	70%
Carbon Dioxide[2]	–	57%
SARS-CoV-2[2,3]	–	76%

[1] Carbon Monoxide and Ammonia are not listed: SVT is not a CO source control measure. Ammonia is only for spaces with nonhuman animals.

[2] Not required by ASHRAE Standard 62.1 Addendum aa

[3] Single pass efficiency for SARS-CoV-2 was tested using MS-2 bacteriophage, a non-toxic surrogate for SARS-CoV-2

Validated, Long Lasting Performance

enVerid Sorbent Filters have undergone rigorous performance testing using industry-standard test procedures including ASHRAE 145.2, the Laboratory Test Method for Assessing the Performance of Gas-Phase Air-Cleaning Systems, and ASHRAE 52.2, the Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size. ASHRAE 145.2 testing has also confirmed that enVerid Sorbent Filters do not produce any ozone or VOC byproducts.

enVerid's Sorbent Filters and IAQP Calculator account for the complete list of ASHRAE Standard 62.1 Addendum aa Design Compounds

Recycling, Disposal and Safety

- Place spent filters in replacement Sorbent Filter packaging
- Check with your local distributor or enVerid for approved disposal locations
- In case of puncture and spillage of sorbent:
  - Avoid skin contact or ingestion of spilled sorbent
  - Collect spilled granules before applying water or detergents to spill area

Handling and Storage

- Store in a cool, dry location in original packaging
- Keep away from direct sunlight and contact with water
- Wear gloves and wash hands after handling
- For use only in HVAC systems with Sorbent Ventilation Technology™

enverid.com · 1.617.795.4000 · info@enverid.com

Energy Savings. Air Quality.

enVerid Systems, the leading provider of sustainable indoor air quality (IAQ) solutions, helps buildings achieve air quality goals, save money, and reduce energy consumption and carbon emissions. Its flagship HVAC Load Reduction® (HLR) modules are award-winning air cleaners that deliver up to 40% HVAC energy savings and superior indoor air quality in new and existing buildings. For new HVAC systems, HLR modules also enable immediate capital cost savings. At the core of all HLR modules is enVerid Sorbent Ventilation Technology™ (SVT™), uniquely designed to capture gaseous contaminants that degrade indoor environmental quality. enVerid's HEPA air filtration products remove particulate and microorganism contamination, including viruses, from indoor air without the significant cost of upgrading mechanical systems and increasing mechanical ventilation rates. enVerid's products are deployed in commercial, academic, and government buildings globally. Its air cleaning products are ASHRAE Standard 62.1, LEED® and WELL compliant and eligible for utility rebates. For more information, please visit enverid.com.