

enCart-250™ Sorbent Cartridge

Capture and Remove Airborne Molecular Contaminants



Proven, Long Lasting Air Cleaning with No By-Products

The **enCart-250** is a field-replaceable sorbent cartridge that delivers proven, long-lasting air cleaning with no by-products. It is designed exclusively for the HLR® product line.

Under normal operation of the HLR module, air flows through the permeable **enCart-250** cartridge, where it comes into close contact with the granular sorbent medium inside the cartridge, thereby capturing airborne molecular contaminants and removing them from the air stream.

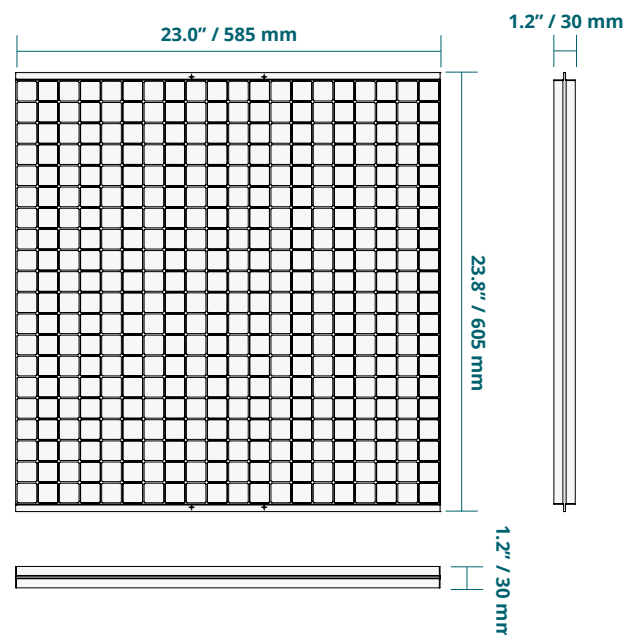
The **enCart-250** requires frequent regeneration using the HLR module's temperature swing cycle to maintain its adsorptive performance properties. It is designed to perform **only** inside an HLR module with the required controls, mechanical configuration and protections.



The medium is a unique mix of enVerid's enSorb™ family of proprietary indoor-air sorbents, which have been developed and synthesized to capture a broad spectrum of airborne molecular contaminants including CO₂ and a wide variety of volatile organic compounds (VOCs).

Sized for Easy Replacement

DIMENSIONS	
WIDTH	23.0" / 585 mm
LENGTH	23.8" / 605 mm
DEPTH	1.2" / 30 mm
WEIGHT	16.5 lbs / 7.5 kg



Validated, Long Lasting Performance

The **enCart-250** cartridges are used in a V-bank configuration inside the HLR module with the air stream distributed equally and in parallel, passing through multiple cartridges.

The **enCart-250** removes a broad range of molecular contaminants. ASHRAE Standard 145.2 lab test results are shown in the table below. The 145.2 tests are performed with the contaminants passing a single time through the cartridge.

The efficiency of the sorbent performance is rated only for operation within an enVerid HLR module.

SINGLE CARTRIDGE AIRFLOW	
FLOW RATE (SCFM)	50-100
PRESSURE (WG)	<1"

GASEOUS CONTAMINANTS (EXAMPLES)	MEASURED STANDARD CHALLENGE CONCENTRATION	CARTRIDGE EFFICIENCY (%)*
Benzene	438 ppb	87%
Carbon Dioxide	1000 ppm	57%
Formaldehyde	102 ppb	99%
Hexane	453 ppb	74%
Isopropanol	449 ppb	77%
Ozone	71 ppb	70%
Toluene	386 ppb	52%
Xylene	419 ppb	60%

*Reported by certified labs per ASHRAE Standard 145.2.

Handling and Storage

- Store in a dry, cool location. Maximum temperature range: 15 to 105°F (-10°C to 40°C)
- Keep away from direct sunlight
- Ensure cartridges do not contact water
- Store in original packaging until used
- For use only with an HLR module
- Wash hands thoroughly after handling cartridges

Recycling, Disposal and Safety

- Cartridges must be sent to an enVerid-approved disposal site. Check with your local distributor or enVerid for shipping destination
- Place spent cartridges in replacement cartridge packaging
- 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

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Energy Savings. Air Quality.

enVerid helps buildings achieve ESG (Environmental, Social, and Governance), healthy building, and cost saving goals by improving indoor air quality while saving money and reducing energy consumption and carbon emissions. For new HVAC systems, enVerid's award-winning HVAC Load Reduction (HLR) Modules enable immediate capital cost savings. HLR Modules also deliver up to 40% energy savings and improved indoor air quality in new and existing buildings. enVerid's air filtration products remove particulate and microorganism contamination 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. enVerid's HLR Modules comply with ASHRAE Standard 62.1, deliver significant LEED and WELL points, and are eligible for utility rebates. For more information visit enverid.com.