



ELIMINATE AIRBORNE
PATHOGENS AND ODORS

IMPROVE BUILDING IAQ

PREVENT MOLD AND
BACTERIA GROWTH

INCREASE SHELF LIFE OF
PERISHABLES AND PRODUCE

MARS MANUFACTURES PRODUCTS
TO MEET YOUR NEEDS



AIR CURTAIN PROTECTION

Mars Air Curtains offer the first line of defense to a building's open doors by maintaining inside cleanliness and preventing the unwanted entrance of outside elements such as:

**Hot, Cold, and
Humid Air**

**Windborne Dust,
Dirt, Debris, and
Flying Insects**

**Airborne Viruses,
Pathogens, Fumes,
and Odors**

But what do you do when you need more sanitation at or around your building's doorway openings?

CLEAN AIR SERIES

When Air Curtain Clean, Is Not Clean Enough!

Why use Mars Clean Air Series?

- Mars 2-in-1 approach cleans your air while still maintaining full functionality of an air curtain
- Standalone room purifiers often rely on passive air currents, leaving "dead zones" where air remains untreated. The Mars CAS integration leverages high-velocity circulation to eliminate these risks.
- The Multi-Pass Advantage: Air is not just treated once; it is cycled through the sanitation stages multiple times per hour. Pathogens that might survive a single pass are neutralized through these repeated, high-velocity cycles, ensuring sterilization of airborne bio-contaminants.
- Mars UV air curtains are ETL certified to conform with UL507 and CSA 22.2 for indoor installations.

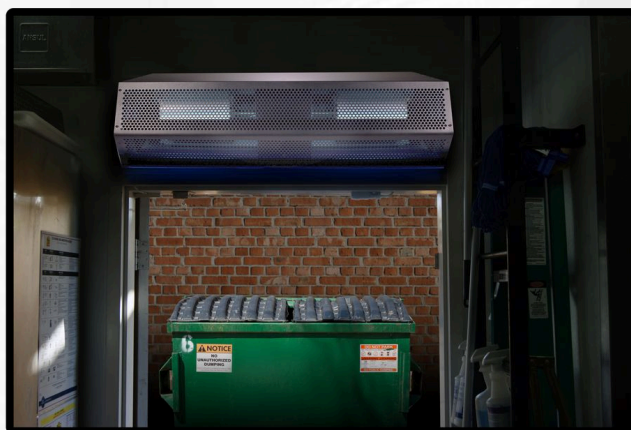
WHICH SERIES IS BEST FOR YOU?

The Kill Method: UVC/UVV Germicidal/Odor Eradicating Lamps

This Clean Air Series is designed around our LPV2 and STD2 series. Maximum mounting height is 10'



Walk-In Refrigeration Box



Trash/Refuse Storage



Customer Entry Doors

WHAT'S INSIDE

- **Dual-Wavelength Sanitation:** The Mars UVC package utilizes a sophisticated dual-wavelength approach to destroy biological and chemical contaminants at the molecular level.
 - UV at 254nm frequency is the microbe killer by penetrating cellular walls to disrupt the DNA/RNA of viruses, bacteria, and mold, preventing reproduction and effectively inactivating the pathogen.
 - UV at 185nm frequency is the Odor Oxidizer. It produces controlled levels of ozone to decompose VOCs and ethylene off-gassing via oxidation, breaking them down into harmless compounds.



BENEFITS

- Kills pathogens and microorganisms on the interior surfaces of the air curtain's cabinet and components, minimalizing their redistribution and airborne transmission
- Inhibits growth of ethylene - the leading cause of premature aging in produce
- Destroys unpleasant odors caused by volatile organic compounds

WHICH SERIES IS BEST FOR YOU?

The Capture Method: HEPA Filter

This Clean Air Series is designed around our STD2 series. Maximum mounting height is 8'.



Clean Room



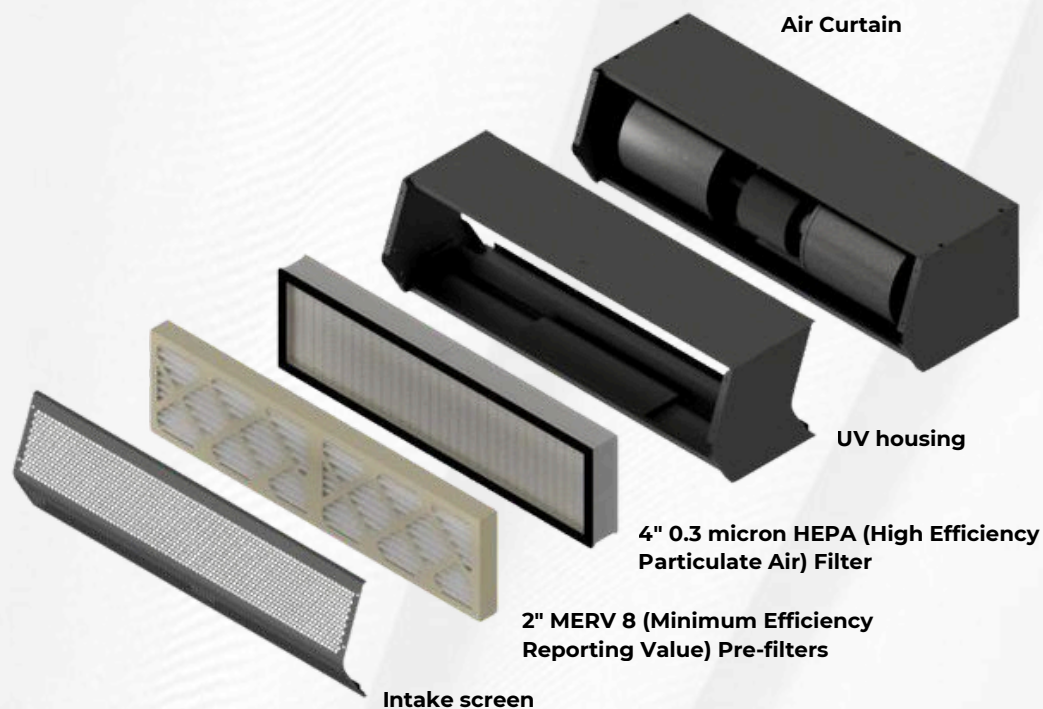
Data Centers



Health Care Lobby

WHAT'S INSIDE

- **The Two-Stage Barrier System:** The Mars HEPAC system utilizes a multi-stage approach to ensure air purity and protect the longevity of the high-efficiency components.
 - Stage 1: 2" MERV 8 Pre-Filter: Acts as a sacrificial shield, capturing large debris, lint, and dust. This maintains internal air velocity and extends the HEPA filter life-span up to one year under normal conditions.
 - Stage 2: Mars HEPAC Filter: Certified at 99.97% efficiency for particles as small as 0.3 microns.
 - Optional Upgrade: ULPA Filter: For healthcare settings and clean rooms, Mars offers an Ultra-Low Penetration Air (ULPA) filter, rated at 99.99% efficiency for particles as small as 0.12 microns.
 - Filter gauges included as needed



BENEFITS

- While standard HVAC filters allow microscopic pollutants to pass through, the 0.3 micron standard is the critical threshold for capturing the most difficult to trap particles, including liquid droplets that carry viruses, common molds and other air borne pathogens

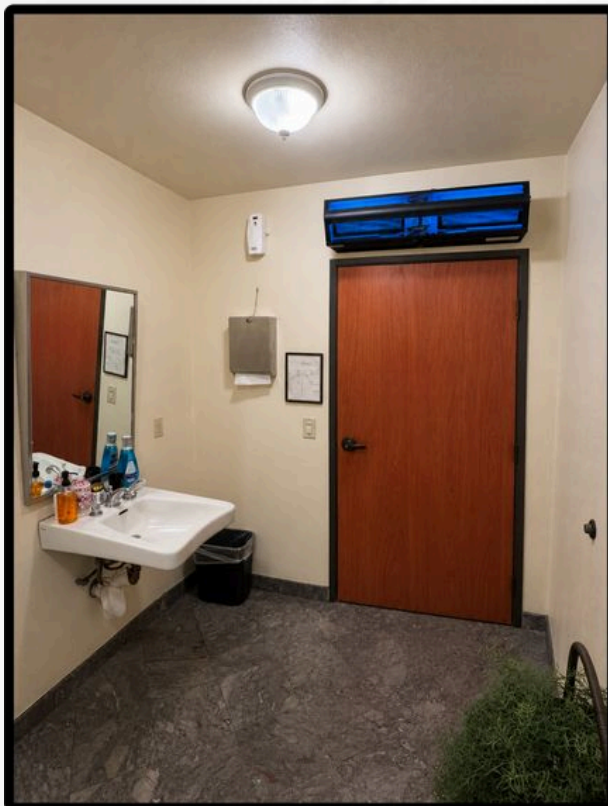
WHICH SERIES IS BEST FOR YOU?

The Neutralization Method: VHP (UV Lamps, HEPA Filters and Bipolar Ionizers)

This Clean Air Series is designed around our STD2 series. Maximum mounting height is 8'.



Cigar/Smoking Bar



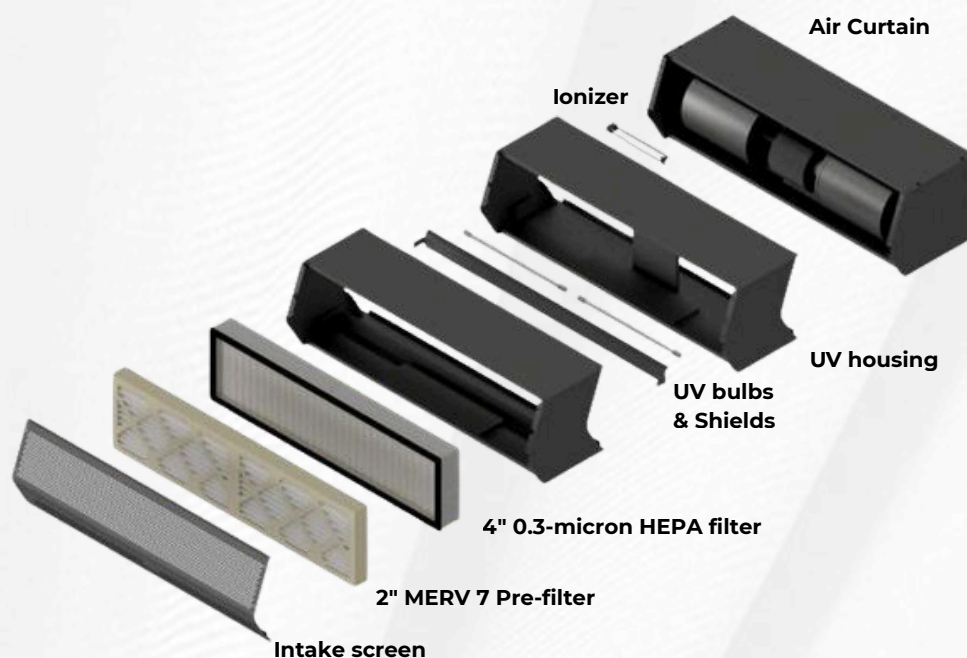
Lavatories



Cold Storage

WHAT'S INSIDE

- **Active "Search and Neutralize":** While UV and HEPA are effective "trap and kill" technologies (passive), Bipolar Ionization is an offensive technology. It transitions sanitation into an active process by sending ions directly to the contaminants within the room.
 - Particle Agglomeration: The ionizer releases charged ions into the air stream. These ions attach to micro-particulates, causing them to cluster. Once these clusters become larger and heavier, they are easily captured by the Mars HEPAC® filter or drop out of the breathing zone.
 - Static Electricity Mitigation: This process effectively reduces static electricity, a critical requirement for laboratories and clean room environments where static can interfere with sensitive equipment.



THE VHP COMBO PACKAGE

- The VHP (UV, HEPA, and Ionizer) Combo is the ultimate integration of air sanitation technology. Fully factory-assembled and wired, this system provides a single-point connection for a comprehensive, multi-layered sanitation solution.
- Integrated safety switches automatically deactivate both the fan and the UV lamps during service, protecting maintenance personnel from exposure.

Mars works hard, so your building doesn't have to