



EASYROOTS
ENGINEERED ENVIRONMENTS

Engineered Environments
Stronger Roots
Better Growth

UV Purification Box

Cleaner Air.
Cleaner Equipment.
Better Growing Environments.

An integrated UV-C air purification and MERV 13 filtration system designed specifically for EasyRoots' ductless HVAC solutions to improve indoor air quality, protect HVAC equipment, and simplify maintenance.

Designed specifically for EasyRoots ductless HVAC systems, the UV Purification Box combines high-efficiency MERV 8 to MERV 13 Filtration Upgrade with dual Ozone-free UV-C lamps to help maintain cleaner air, cleaner coils, and more consistent environmental performance.

THE CHALLENGE

Air Quality Impacts More Than Your Plants

Contaminants don't just circulate through the grow room—they accumulate inside the HVAC system where they can reduce airflow, increase maintenance, and impact long-term performance.

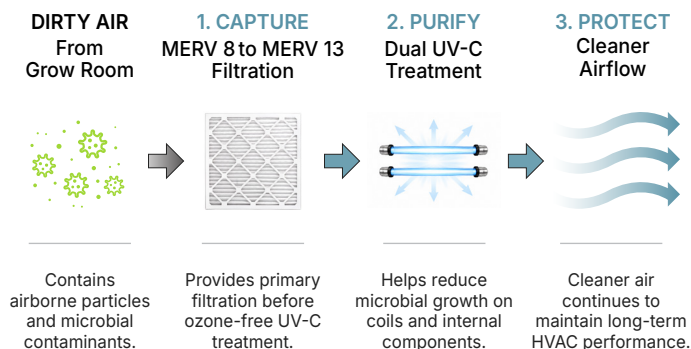
Poor air quality can contribute to:

-  **Microbial buildup on HVAC coils**
-  **Reduced airflow**
-  **Increased maintenance**
-  **Reduced HVAC efficiency**
-  **Supports cleaner condensate collection for potential reclaim applications.**

HOW IT WORKS

Multi-Stage Air Purification

The filtered air then moves through a dual UV-C purification chamber where UV light helps reduce microbial growth on HVAC coils and within the purification chamber before clean air continues into the ductless HVAC system.



PROOF & PERFORMANCE • Engineered to keep ductless HVAC systems cleaner, easier to maintain, and operating more consistently.



CLEANER AIR

Helps reduce airborne contaminants for cleaner, healthier indoor air.



CLEANER COILS

Helps keep HVAC coils cleaner for consistent airflow and system performance.



CLEANER CONDENSATE

Helps support cleaner condensate collection for potential reclaim and re-watering applications.*



SIMPLIFIED MAINTENANCE

Reduces dirt and buildup to simplify routine maintenance and service.



EQUIPMENT PROTECTION

Helps protect critical HVAC components and extends system life.

* Application Dependent. Condensate reuse should follow facility operating procedures and local regulations.



The EasyRoots Difference

Unlike standalone air purification products, the EasyRoots UV Purification Box integrates with our ductless HVAC systems, combining MERV 13 filtration, ozone-free UV-C treatment, and simplified service in one compact solution.

Smarter Systems.

Lower Costs.
Better Growing Environments.

UV Purification Box

Integrated Air Purification for Ductless HVAC Systems

KEY BENEFITS



Improve Indoor Air Quality

MERV 13 filtration and ozone-free UV-C purification help maintain cleaner circulating air.



Protect HVAC Equipment

Help reduce microbial buildup on coils and internal HVAC components.



Simplify Maintenance

Easy-access replaceable filters and UV lamps simplify routine service.



Supports Ductless Design

Engineered specifically for EasyRoots ductless HVAC systems while minimizing additional installation complexity.

INSIDE THE UV PURIFICATION BOX



AIR INLET

Air enters from the grow room to the duct.

MERV 13 FILTER

High-efficiency filter captures particulates.

DUAL UV-C LAMPS

Ozone-free UV-C lamps help reduce microbial growth on HVAC coils and internal components.

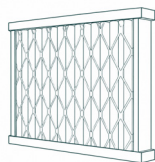
CLEAN AIR OUTLET

Purified air continues to the outdoor unit.

SERVICE ACCESS PANEL

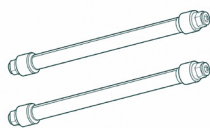
Easy access for filter and lamp replacement.

SYSTEM COMPONENTS



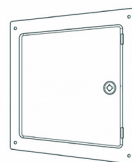
MERV 8 to MERV 13 Replaceable Filter

High-efficiency filtration designed for simple replacement and reliable particulate removal.



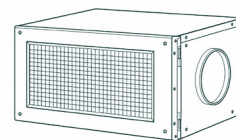
Dual UV-C Lamps

Engineered to provide continuous ozone-free UV-C treatment within the purification chamber.



Service-Friendly Access

Quick-access panel simplifies routine filter and UV lamp replacement.



Compact Ductless Integration

Purpose-built for seamless integration with EasyRoots ductless HVAC systems.

WHY AIR PURIFICATION MATTERS



Maintain Consistent Airflow

Keeps airflow consistent throughout system operation.



Support Condensate Reclaim

Supports cleaner condensate for reclaim and re-watering.



Preserve Long-Term System Performance

Helps maintain HVAC efficiency throughout system life.



Promote Cleaner Indoor Air

Helps improve overall circulating air quality.



Support Reliable Environmental Control

Promotes more stable indoor growing conditions.



Simplify Routine Maintenance

Supports faster filter and UV lamp replacement.



EASYROOTS
ENGINEERED ENVIRONMENTS



EasyRoots.com



833-EASYBUD (833-237-9283)



Sales@EasyRoots.com



@easyroots

UV Purification Box

Integrated Air Purification for Ductless HVAC Systems

AVAILABLE MODELS



MODEL #1 3-4.5 TON

Overall Dimensions (LxHxD)
47.60" x 13.91" x 12.12"

Weight
25-30 lbs.

MODEL #2 6 TON

Overall Dimensions (LxHxD)
56.00" x 16.66" x 10.37"

Weight
25-30 lbs.

TECHNICAL SPECIFICATIONS

ELECTRICAL



- **Input Power:** 110 VAC
- **UV Lamp Power:** 120 W per Lamp
- **Total UV Power:** 240 W
- **Lamp Wavelength:**
(typically 254 nm if standard UV-C)

DESIGNED FOR CLEANER AIR



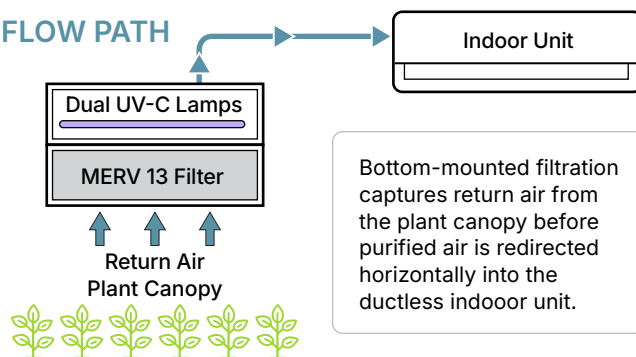
- Ozone-Free UV-C Operation
- MERV 8 to MERV 13 Filtration
- Supports Cleaner Condensate Collection
- Engineered for Ductless HVAC Systems

MAINTENANCE



- **Filter Replacement:** Every 4 - 8 weeks (or as needed)
- Ensure filters do not concave inward.
- **UV Lamp Replacement:** Every 1 - 3 years
- **Airflow Capacity:** Varies by model
- No Additional Routine Maintenance

AIR FLOW PATH



APPLICATIONS



Indoor Cultivation Facility

Protects critical HVAC systems for reliable environmental control.



Greenhouses

Engineered weather protection for greenhouse HVAC equipment year-round.



Controlled Environment Agriculture (CEA)

Maintain cleaner air for precision-controlled indoor growing environments.



New Facility Construction

Designed into new facilities for long-term equipment protection.



HVAC Retrofits

Modernize existing HVAC systems with integrated air purification and simplified maintenance.



EASYROOTS
ENGINEERED ENVIRONMENTS



EasyRoots.com



833-EASYBUD (833-237-9283)



Sales@EasyRoots.com



@easyroots