



EASYROOTS
ENGINEERED ENVIRONMENTS

HVAC PENTHOUSE

**Protect Your Climate System.
Protect Your Harvest.**

Purpose-built equipment enclosures that protect VRF HVAC systems from the elements while improving serviceability, reliability, and year-round environmental performance.

THE CHALLENGE

Outdoor HVAC Equipment Faces Constant Exposure.

Commercial cultivation facilities rely on outdoor HVAC equipment that operates 24/7 in demanding environments, where constant exposure to the elements is unavoidable.



Snow & Ice



Rain & Moisture



Dust & Debris



Extreme
Temperatures



Reduced Equipment
Lifespan



Difficult
Service Access

Without proper protection, these conditions can reduce equipment reliability, increase maintenance demands, shorten system life, and compromise consistent environmental performance.

PROOF & PERFORMANCE

Engineered to protect critical climate equipment while supporting reliable environmental performance through every season.

10

YEAR
WARRANTY

Long-term protection for
your VRF investment.

24/7

YEAR-ROUND
OPERATION

Protects equipment
through every season.

100%

COMMERCIAL
VRF COMPATIBLE

Engineered to integrate with leading
commercial VRF manufacturers.



The EasyRoots Difference

Unlike traditional rooftop installations or exposed equipment pads, the EasyRoots HVAC Penthouse integrates equipment protection, serviceability, and engineered airflow into one purpose-built climate infrastructure solution.

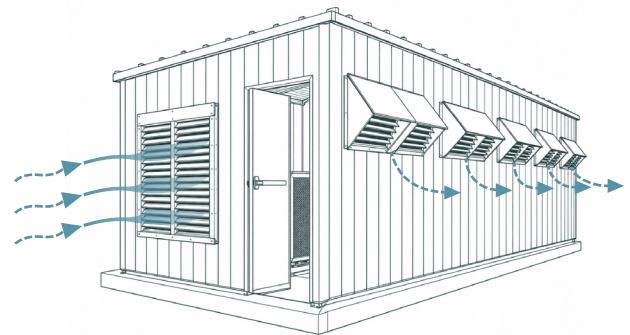
**Engineered Environments
Stronger Roots
Better Growth**



HOW IT WORKS

A Purpose-Built Mechanical Enclosure.

Purpose-built to protect, ventilate, and simplify service.



WEATHER PROTECTION

Protects critical VRF
equipment.

ENGINEERED AIRFLOW

Optimized louvered
ventilation.

WALK-IN ACCESS

Safe, convenient
maintenance.

SCALABLE DESIGN

Supports facilities of
any size.

Designed for reliable climate performance -
365 days a year...

**Smarter Systems.
Lower Costs.
Better Growing
Environments.**

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KEY BENEFITS



Year-Round Equipment Protection

Protect critical HVAC equipment from snow, rain, debris, and harsh weather conditions.



Easy Service Access & Maintenance

Service corridors allow fast, safe equipment maintenance and servicing.



Engineered Airflow

Optimized airflow design maximizes HVAC performance and system efficiency.



Built to Scale

Modular multi-bay construction supports facilities of virtually any size.

INSIDE THE HVAC PENTHOUSE

The EasyRoots HVAC Penthouse creates a dedicated mechanical environment that protects your climate system and simplifies maintenance - year after year.



All-Season Performance

Maintain precise environmental control regardless of outside weather conditions.



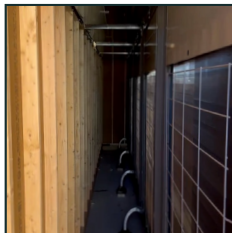
Louvered Airflow System

Custom vent arrays balance airflow while protecting equipment from snow, rain, and debris.



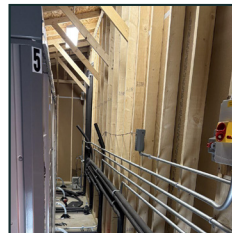
VRF Compatible

Sized specifically for commercial VRF condensing units used in cultivation.



Secure Walk-In Access

Safe technician access for inspections, maintenance, and seasonal adjustments.



Structural Frame

Heavy-duty framing with exterior finishes that integrate cleanly into commercial facilities.



Scalable Multi-Bay Design

Expand from a single enclosure to continuous multi-unit mechanical corridors as facilities grow.

APPLICATIONS



Indoor Cultivation Facility

Protects critical HVAC systems for reliable environmental control.



Greenhouses

Engineered weather protection for greenhouse HVAC equipment year-round.



New Facility Construction

Designed into new facilities for long-term equipment protection.



Facility Expansions

Scalable enclosures supporting future HVAC growth and expansion.



Large Commercial VRF Installations

Purpose-built protection for large-scale commercial VRF systems.



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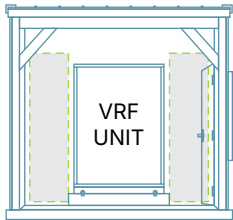
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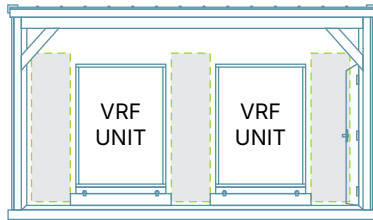
CONFIGURATION GUIDE

Single Bay



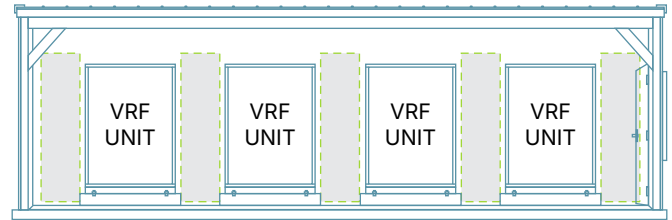
Service and Airflow Clearance (Typ.)

Dual Bay



Single, dual, and scalable multi-bay configurations with engineered airflow and service access.

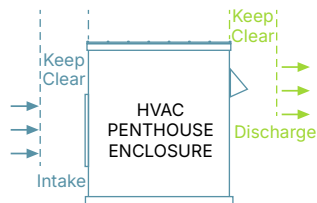
Continuous Multi-Bay



Overall Width (Varies)
Width based on selected VRF units and required clearances.

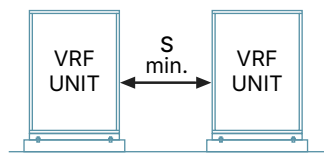
DESIGN CONSIDERATIONS

Airflow Clearance



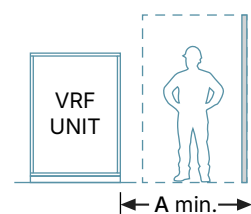
Maintain required intake and discharge clearances for optimal performance.

Equipment Spacing



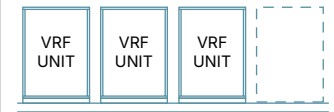
Allow proper spacing between units for service and airflow.

Service Access



Minimum aisle width ensures safe and efficient technician access.

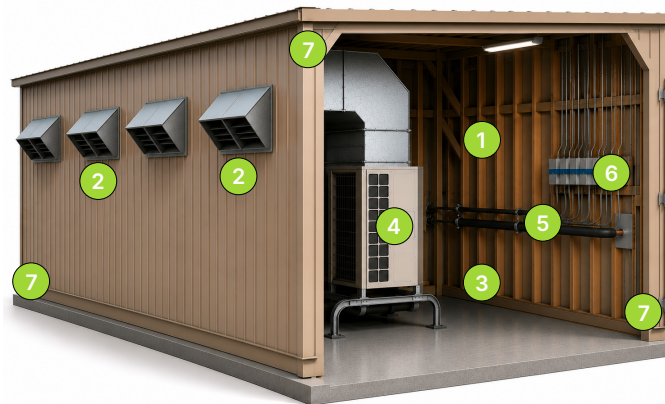
Expansion Capability



Modular design allows seamless expansion as your facility grows.

COMPONENT LEGEND

- 1 **Open Air Intake**
Weather protection with engineered airflow.
- 2 **Discharge Louvers**
Hot air exhaust with backdraft protection.
- 3 **Walk-In Service Corridor**
Full height access for maintenance and repairs.
- 4 **VRF Condensing Units**
Commercial VRF outdoor units on equipment pad.
- 5 **Refrigerant Piping**
Optimized routing with service clearance.
- 6 **Electrical Rough-In**
Conduit pathways for power and controls.
- 7 **Structural Framing**
Heavy-duty framing with exterior finishes.



Engineering Notes

- Designed for Commercial VRF Systems.
- Engineered to local wind and snow loads.
- Corrosion resistant exterior materials.
- Custom sizing available for all projects.



WHY A PENTHOUSE

Instead of exposing your most valuable HVAC equipment to the elements, the HVAC Penthouse creates a dedicated mechanical environment that improves equipment protection, simplifies maintenance, and supports long-term facility performance.



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