EASYROOTS
ENGINEERED ENVIRONMENTS

Engineered Environments
Stronger Roots
Better Growth

ADVANCED

AIR MIXING SYSTEMS

Eliminate Microclimates.
Improve Environmental Control.

Easy Roots Air Mixing Systems continuously circulate and blend conditioned air throughout the grow room, creating more uniform temperature, humidity, and CO_2 distribution while improving overall HVAC performance.

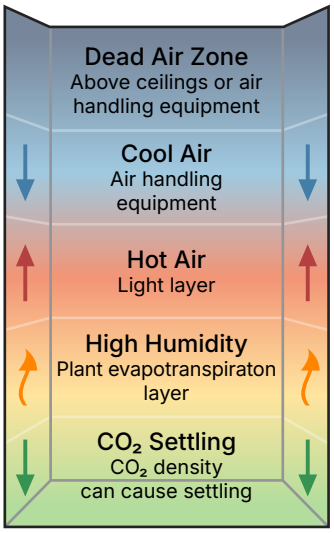
AIR BLENDER

Z-FAN

THE CHALLENGE

Uneven Air Distribution Creates Hidden Problems.

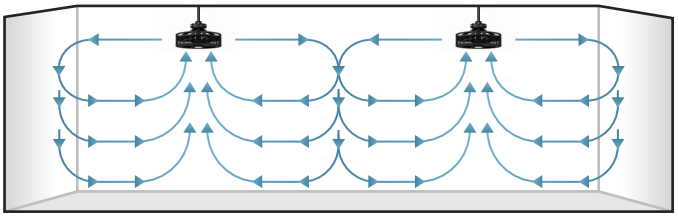
Even in well-designed facilities, air naturally stratifies.



- Temperature Layering
- Humidity Pockets
- Uneven CO_2 Distribution
- Increased Mold and Mildew Risk
- Inconsistent Plant Growth
- Reduced HVAC Efficiency

HOW IT WORKS

Continuously Mixes Air Throughout the Entire Room



The Air Mixing System pulls conditioned air from throughout the room and redistributes it evenly across the entire cultivation space, eliminating environmental layering and reducing microclimates.

Temperature + Humidity + CO_2 = Uniform Canopy Conditions

PROOF & PERFORMANCE

UP TO **50%**

Higher Heating. Cooling & Drying Efficiency.

- Eliminate Microclimates
- Increase CO_2 Contact Time
- Reduce Mold Risk
- Improve HVAC Performance

By creating a more uniform environment, air mixing systems can reduce HVAC inefficiencies and improve overall environmental consistency.

The EasyRoots Difference

Unlike traditional electric reheat systems, Easy Roots combines VRF technology, recovered waste heat, and integrated air mixing strategies into a complete environmental control solution designed specifically for cultivation facilities.

Smarter Systems.
Lower Costs.
Better Growing Environments.

AIR MIXING SYSTEMS

Eliminate Microclimates. Improve Environmental Control.

KEY BENEFITS

Improve Environmental Uniformity

Evenly distribute temperature, humidity, and CO_2 throughout the room.

Reduce Mold & Mildew Risk

Pull moisture away from plants and eliminate stagnant air zones.

Improve HVAC Performance

Increase heating, cooling, and drying efficiency by reducing stratification.

Increase Yield Potential

Create more consistent growing conditions across the entire canopy.

AIR MIXING TECHNOLOGY

AIR BLENDER 5.8K CFM

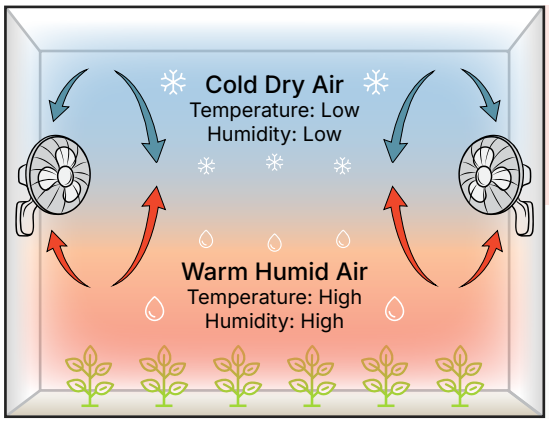
- Low-profile destratification fan
- Ideal for smaller cultivation spaces and targeted application

Z-FAN - 25K CFM

- High-volume air mixing solution
- Designed for large commercial cultivation facilities

WHY AIR MIXING MATTERS

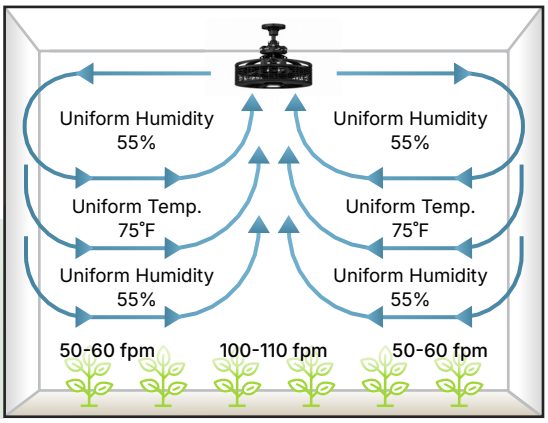
BEFORE AIR MIXING



- Temperature Layering
- Humidity Pockets
- Uneven CO_2 Distribution
- Dead Air Zones
- Higher Risk of Mold & Mildew

Stratified Environment

AFTER AIR MIXING

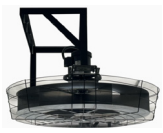


- Uniform Temperature
- Balanced Humidity
- Even CO_2 Distribution
- Eliminated Dead Zones
- Higher Plants, Higher Potential

Uniform Environment

SYSTEM COMPONENTS

BLENDER FAN



Z-FAN

INTEGRATED CONTROLS

OVERHEAT PROTECTION

VARIABLE SPEED CONTROLS

MOUNTING SYSTEMS

AIR MIXING SYSTEMS

Eliminate Microclimates. Improve Environmental Control.

INSTALLATION & COVERAGE

EXAMPLE ROOM LAYOUTS

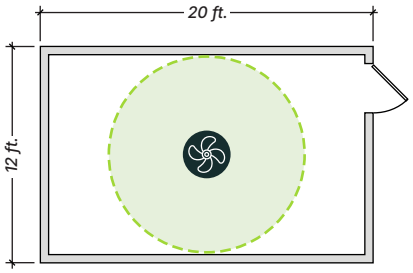
SMALL ROOM

1 Air Blender

Complete coverage with optimal airflow.

Coverage Area:

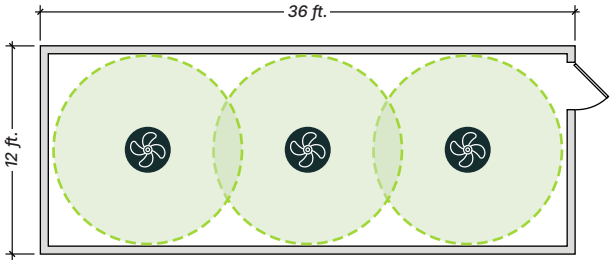
~250 m² / Radius ~9m



MEDIUM ROOM

3 Air Blender

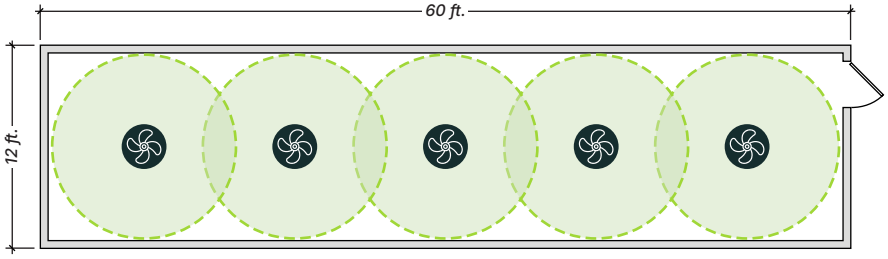
Overlapping coverage eliminates dead zones and ensures uniform environment coverage with optimal airflow.



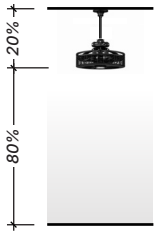
LARGE ROOM

5 Air Blender

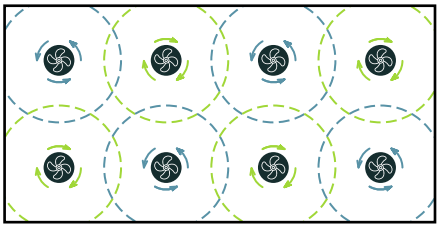
Engineered layout provides continuous coverage across the entire space.



HEIGHT



CHECKERBOARD LAYOUT



LEGEND

AIR BLENDER
Point of Installation

COVERAGE AREA
Effective airflow radius at canopy level

OVERLAP ZONE
Area of optimal mixed airflow

Coverage radius shown is an example. Actual radius varies by model and mounting height.

Air Blenders create overlapping columns of moving air that eliminate stagnant pockets and maintain a uniform environment throughout the canopy.

APPLICATIONS

Flower Rooms

Precision climate control for optimal flower development.

Greenhouses

Climate control for year-round high-performance cultivation.

Indoor Cultivation Facility

Uniform airflow for consistent environmental control at scale.

Controlled Environmment Agriculture (CEA)

Advanced systems for consistent, scalable indoor agriculture

SYSTEM OVERVIEW

	Air Blender	Z-Fan
CFM	5,886	25,000
Power	310W	2,346W
Voltage	120V, 1 Ph, 60Hz	115V-460V (3 Phase Optional)
Diameter	27″	42″
Height	24″	27-3/8″
Weight	40 lbs.	120 lbs.
Sound Level	64.1 dB*	-
Speed Control	-	VFD Optional*
Certification	ETL Safety Certified	ETL Safety Certified

**Not detectable at 15′ distance in open field.*