PIPP® HORTICULTURE

THE FUTURE OF **AIRFLOW TECHNOLOGY**

Pipp Horticultures' patented **In-Rack Airflow System** provides canopies with uniform, top-down airflow while homogenizing the climate in a multi-layered rolling rack platform. The first purpose-built air circulation system of its kind, developed by growers for growers. Designed to deliver the airflow your plants need to thrive while saving valuable space in vertical farming applications.

Every component has been fully redesigned and optimized to **deliver the highest air velocities possible** while maintaining consistent performance across varying row lengths. New materials and construction methods were carefully chosen to simplify installation and reduce costs without sacrificing quality. Highly modular with multiple configurations, this system was designed to meet the airflow needs of your crop.

VAS® 2.0

GET A QUOTE

SCAN ME

IN-RACK **AIRFLOW SYSTEM**

Effective and consistent airflow is a must for any successful vertical farm. Fixed or oscillating fans provide uneven air movement and require complicated electrical sourcing. The VAS In-Rack Air Circulation System allows for consistent airflow, and its **unobtrusive design** disappears alongside the grow lights under the upper rack.

WANT TO LEARN MORE?

GET IN TOUCH

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FEATURES

- **EC Inline Fans:** Reduces power consumption and allows for granular adjustment of air velocity. EC fans may be eligible for Utility Rebates depending on region and provider.
- **Fan Mounting Options:** System can be installed with the fans facing up or down. Mounting brackets allow for precise mounting height and adjustment of duct spacing.
- **Dual Lofted Plenum Design:** Maximizes fan performance and reduces turbulence within the ducts.
- **Corrugated Polypropylene Ducts:** Humidity-resistant and compatible with common cleaning chemicals but cost-effective enough to replace if desired.
- **Optimized Duct Design:** Greatly increases flow rates and duct velocities. Pressure-balanced system provides equal flow front-to-back and side-to-side at variable row lengths.
- **Air Outlets:** improved circular hole pattern for maximum air dispersion, throw distance, and air velocity.
- **Thin Form Factor:** Thinnest form factor on the market, effectively reducing overall system height and saving space.
- **Automated Control (Optional):** Easily integrate fan controls into common automation platforms for external control of fan speeds.

LEARN MORE

WEIGHTS & DIMENSIONS

Component	Weight	Dimensions
10" Fan	13.5 lbs	10"D x 8.25"H
12" Fan	25 lbs	12"D x 11.5"H
10" Plenum	3 lbs	15.8"L x 12"W x 13.7"H
12" Plenum	2.5 lbs	15.8"L x 12"W x 11.2"H
8' Duct Section	2.2 lbs	12"W x 3"H x 8' Sections Long
4' Duct Section	1.1 lbs	12"W x 3"H x 4' Sections Long

**Unpacked/installed weights, not shipping weights.*

FAN SPECIFICATIONS

Fan Size	Region	Airflow @ 0" H2O	Voltage	Power	Current	Frequency
10"	North America *	946 CFM	110-240V AC	126W	1.8A	50/60 Hz
12"	North America	1,662 CFM	110-120V AC	268W	3.5A	50/60 Hz
12”	International	1,758 CFM	220-277V AC	320W	2.4A	50/60 Hz

**For international customers requiring a 10” fan, an adapter plug is required to fit the receptacle (no voltage converter needed)*

BENEFITS

- **Increased Consistency:** Mitigate microclimates and homogenize environmental conditions for consistent VPD and growth rates.
- **Enhanced Crop Health:** Maintain even leaf temperatures and facilitate gas exchange to promote transpiration and photosynthetic rates.
- **Vertical Airflow:** Harness the power of strategic vertical airflow to ensure uniform temperature, humidity, and CO2 throughout your grow space.
- **Space-Saving Design:** This compact and sleek system is engineered to fit seamlessly into most vertical racking systems with the thinnest form factor on the market while providing superior performance.
- **Increased Savings:** Enjoy cost savings and sustainability with this energy-efficient system that maximizes air circulation while minimizing power consumption.
- **Customizable Control:** Tailor the airflow to meet your plants’ unique needs with adjustable fan speeds and a modular system design.