FabricAir

Rack Flow System

– THE INNOVATIVE MULTI-TIER AIR DISTRIBUTION SOLUTION FOR HAPPY PLANTS

smart air **solutions.**

PREVENT MICROCLIMATES AND INCREASE YIELDS

At FabricAir we know that maintaining precise temperature and humidity control at your set points and the prevention of microclimates within the canopy are keys to a successful grow operation with maximum yields. Through years of experience in the grow industry across the United States and Canada, FabricAir has perfected overhead and multi-tiered air distribution in grow facilities. With almost 50 years of innovating the air distribution industry, FabricAir provides custom engineered solutions that will never condensate, are easy to install and clean, and most importantly provide even air distribution at precise velocities throughout your grow space.

RACK FLOW SYSTEM

Rack Flow System is a complete solution that includes fabric ducts, ECM fan, mounting brackets and all other necessary equipment.

- Eliminates microclimates
- Reduces energy consumption
- Compatible with all light grids and racks
- Washable, antimicrobial fabric
- Uses variable speed EC motor fans
- Simple integration to automation systems
- Easy to install and maintain
- Quiet operation

Hygiene Matters

FabricAir Rack Flow System is designed to help facilitate the most hygienic grow environment possible. Manufactured with antimicrobial fabric, the ducts are easy to remove and wash. The Energy Star rated EC motor fans are a snap to clean, and no plenum boxes means there are no places for mold and mildew to hide. The entire system is lightweight and straightforward. Installing and sanitizing are simple tasks that can be done four to six times faster compared to conventional solutions.

Cleaning of the system is extremely easy

Because of universal compatibility,
Rack Flow System will deliver air
through any lighting grid to the canopy

Happy plants and growers

Quality air distribution

FabricAir understands that in the complex grow space environment, air movement, while critical, is simply not enough. If air is simply blown through the grow space with fans, it will pick up excess heat and humidity. Rack Flow however disperses dry conditioned air throughout the grow space eliminating microclimates and enabling vital gas exchange. The system's consistent air distribution penetrates even the thickest plant canopies, promoting optimum transpiration, which enables plants to absorb more water and nutrients. The results are happy plants with more robust yields.

Energy efficient

Reducing energy consumption is the primary reason why many growers are switching to LED lights and the multi-tier model. This is also why FabricAir created its Rack Flow system to be the most energy efficient approach available for multi-tier racking. By deploying Energy Star rated EC motor fans and fabric ducts with linear dispersion, the Rack Flow System provides uniform air distribution to the entire plant canopy while maintaining peak efficiency at any speed. Efficiency is also increased by eliminating plenum boxes that restrict airflow.

Universally compatible

The versatile system can be mounted on any manufacturer's racking and is designed to penetrate any lighting grid to ensure the air reaches the canopy at velocity. It also easily integrates into grow space control systems through 0-10V or PWM controls to maximize efficiency and deliver air as needed throughout the grow cycle. Rack Flow is simply the most efficient system, providing more air volume to the plant canopy per each watt consumed.

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DATA

FAN				
	Ø6”	**Ø8”**	**Ø10”**	**Ø12.3”**
Certified Airflow	260 CFM (0.2 Inwg)	530 CFM [0.2 Inwg]	900 CFM [0.2 Inwg]	1600 CFM [0.2 Inwg]
Voltage	110-230V AC	110-230V AC	110-230V AC	110 VAC
Frequency	50-60 Hz	50-60 Hz	50-60 Hz	60 Hz
Power	36W	74W	126W	268W
Current	.54	1.14A	1.8A	3.5A
Sound Output	31-60 dB	31-60 dB	45-65 dB	55-75 dB
Motor	6-pole Brushless EC with Auto-Restart Lock Protection and Soft-Start Features			
Speed Controller	Digital speed controller providing output adjustment range (0-10V)			
Operating Temperature	15°F (-10°C) to 140°F (60°C)			
Automated Control Compatibility	wire included			
Certifications	ETL Listed-CAN and US, Conforms to UL STD.507, Certified to CSA STD.C22.2 NO113, Energy Star rated			
Warranty	2 years, rated for 70,000 hours continuous use			

FABRIC PROPERTIES		
Fabric type	Polyester	
Weight	8.80 oz/yd² [300 g/m²]	EN ISO 12127:1997 (ASTM D3776-96)
Heat resistant - continuous	from -40°F [-40°C] to +284°F [+140°C]	
Heat resistant - softening	+464°F [+240°C]	
Washable	Yes	
Warranty	10-years	
CODE COMPLIANCE		
Reaction to fire (USA)	Yes	UL 723
Reaction to fire (Canada)	Yes	ULC s102.2
Cleanrooms and associated controlled environments	Class 3	EN ISO 14644-1
PERFORMANCE CERTIFICATES		
Air Disp. Systems	Yes	UL 2518
ADDITIONAL APPROVALS		
Anti-microbial	Yes	EN ISO 20645, AATCC 100
OEKO-TEX	Yes	OEKO-TEX® Standard 100

FabricAir® RackFlow™ Systems
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Disclaimer

FabricAir® believes that all data, statements, technical information, etc., listed in this Technical Data Sheet regarding the product and the use of the product are accurate and reliable. However, the product will only be covered by FabricAir®'s guarantees or warranty if the final use for the product has been approved by FabricAir® in writing. No representative is authorized to approve the final use of the product on behalf of FabricAir®.

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