



AIRTUBE[®] Fans

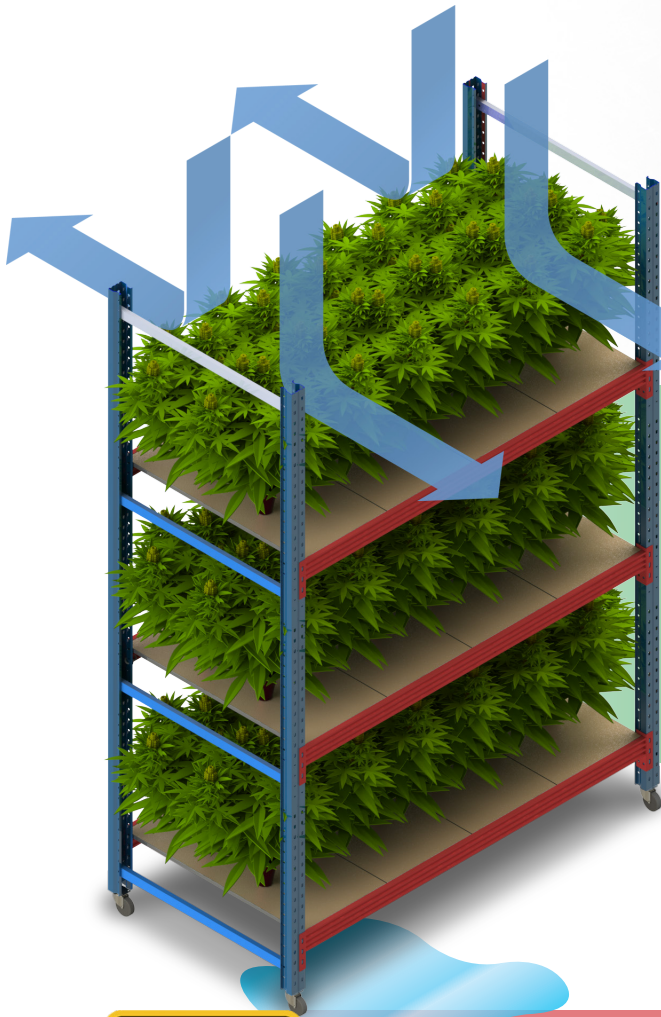


Vertical
Growing
Air Delivery

AIRTUBE® Fans

Challenges Associated with Vertical Growing

- Delivering air equally through the canopy
- Distributing proper air velocity to all levels of growing
- Difficulty of eliminating micro-climates within the canopy
- High potential for leaf burn from excessive airflow
- Coordinating airflow with lights
- Efficient delivery of CO₂



Air Delivery Is Important

“Blowing down through the top of the canopy does NOT ventilate below the canopy.”

- Missouri Grower

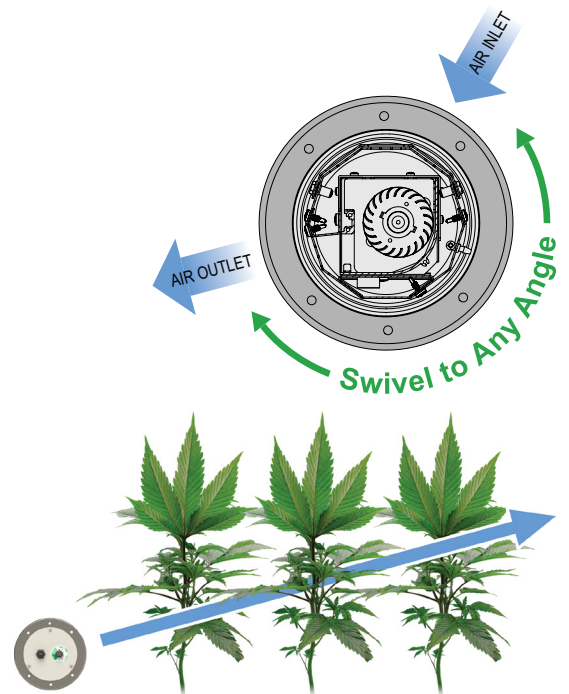
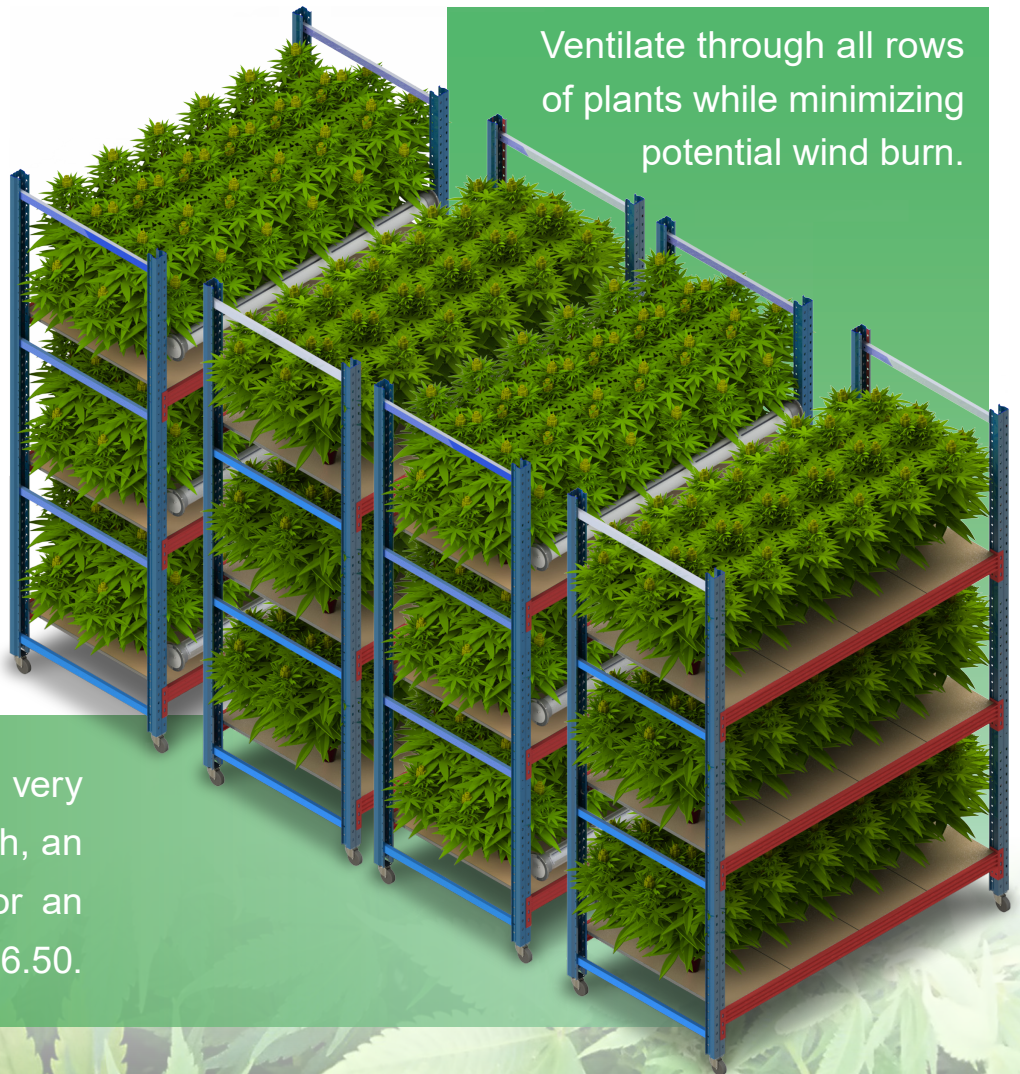
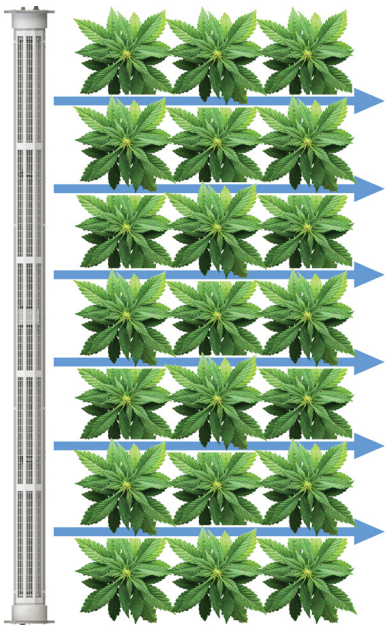


High Voltage in Racks is Dangerous!

Ask yourself: does using high voltage electrical equipment in metal grow racks where plants are frequently watered sound like a *good idea*?

The Engineered Solution: Vertical Growing with AirTube® Fans

- AirTube Fans provide each layer of plants with consistent velocity of conditioned air
- No plants are displaced by AirTube Fans
- AirTube Fans do not interfere with lighting
- AirTube Fans can be positioned high, low or mid rack as the grower determines
- Only 65 watts for up to 760 cfm of free air movement (based on a standard 86" unit)
- Water resistant 24V plug and play power for ease of installation and safety
- Low acoustic levels

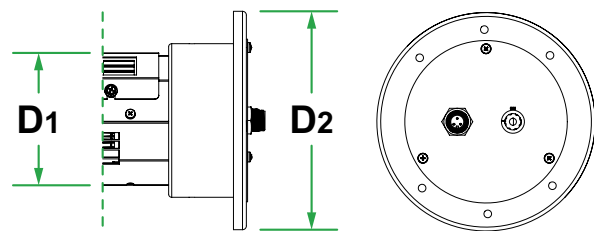
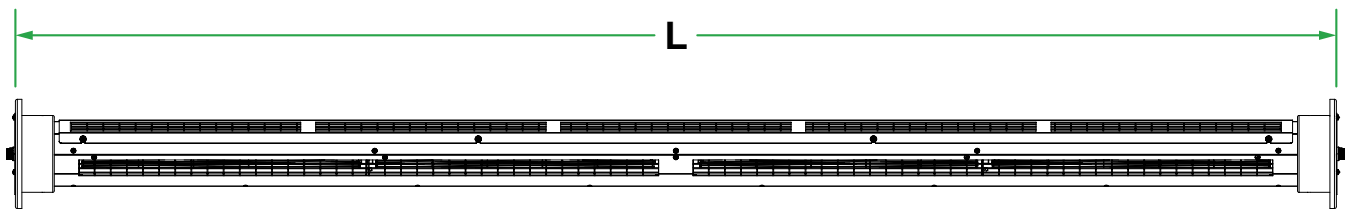


Each AirTube Fan costs very little to operate. At 10¢/kWh, an 86" AT-710 unit will run for an average of 1,000 hours for \$6.50.

AIRTUBE® Fans

- Low voltage 24V water resistant IP54 motors and IP67 internal wiring
- Water / UV resistant IP68 cables and connections
- No high-voltage equipment in racks means a safer working environment for growers (Units can be easily opened and cleaned without risk of injury or damage to internal components)
- Multiple options for unit control
 - Standard 0–10V control of all units in a zone via Building Automation Systems
 - Optional manual control of individual units using unit-mounted fan speed dial
 - Central power and control for up to six (6) units using an AirTube Hub
- Flexible options for unit length and air flow available (specify on order)

Standard Dimensions



L OVERALL LENGTH		D1 FAN HOUSING DIAMETER		D2 HANGING FLANGE DIAMETER	
in	mm	in	mm	in	mm
20	508	4.5	114	7	178
38	965				
62	1575				
86	2184				
110	2794				
134	3404				
ALL DIMENSIONS NOMINAL ± 0.1" (2.5mm)					

Specifications

- Application:** Indoor Plant Growth | Suspended Grow Rack Mounting
- Unit Construction:** Main Fan Housing | 20 Gauge (1mm) Aluminum
 Mounting Flanges | Stainless Steel
 180° Manual Rotation for Adjustment of Airflow Direction
- Airflow Capacity:** 170–1200 cfm (289–2,040 m³/hr) Free Air (Varies Based on Unit Size + Capacity)
 (Nominal Maximum) Standard 0–10V BAS Control / Optional Manually Adjustable Fan Speed Control
- Electrical:** Specify Voltage on Order: 120V (120/1/60) | 208V (208/1/60) | 230V (230/1/60) | 277V (277/1/60)
 1–6 AirTube Fans per 24VDC Power Supply (Varies Based on Fan Sizes / Power Supply Capacity)