

# AIRCULESS® ACT

AIR FILTRATION BY TOTAL ENERGY GROUP

**SPECIALLY ENGINEERED FOR HORTICULTURE**



[www.TotalEnergyGroup.com](http://www.TotalEnergyGroup.com)  
Carpinteria, CA  
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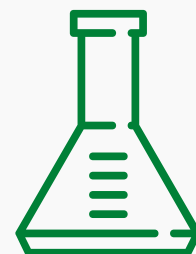


# ABOUT AIRCULESS® ACT

## RESEARCH

New research has shown that cannabis odor originates from thiol-based compounds, a natural occurring organosulfur. These thiols, next to terpenes, are the the main factor in odor nuisance that occurs during the cultivation of cannabis.

This research produced new insights on ways to battle odor, using effective and professional odor control technology.



## DESIGN

Airculess® ACT is an effective air purification system designed for every type of production facility by being able to be installed above the crop. The unique technology used within Airculess® ACT allows for an efficient and effective destruction of thiols, terpenes and airborne pathogens.

Airculess® ACT uses a precise ozone instrument in combination with a powerful UV source. Ambient air is being treated at both stages of Airculess® ACT and mixed back in the growing area. Due to the purpose designed calibration and integration of both instruments, the Airculess® ACT is capable of mitigating the odor compounds significantly. The ozone levels inside the greenhouse are lower compared to outside ozone levels while using Airculess® ACT. The unit monitors the air that passes through the tube constantly.





# ABOUT AIRCULESS® ACT

## PROVEN TECHNOLOGY

Airculess® ACT has been tested and proven in multiple industries over the past decade, effectively reducing concentrations of airborne compounds. Fish processing plants, pig and poultry barns are using the Airculess® ACT successfully.

Airculess® ACT is CE and UL certified.

The Airculess® ACT weighs 88lbs and can be easily placed in the greenhouse above the crop. No floor space is taken. The system consumes only 0.8A at 220V under normal conditions.










The technology in the Airculess® ACT isn't sensitive to pesticides and can be turned on 24/7. This means there is no need to adapt growing practices.













# SPECIFICATIONS

 Product name	Airculess® ACT (Air Control Tube)
 Dimensions	23,6 ØIn x 19.7ft (60 Ø x 600cm)
 Power consumption	175W/0.8 Amps under normal conditions
 Power input	220V 60Hz
 Sound	49dB (maximum)
 Weight	88 lbs.
 Material	Food Safe Insulated Composite
 Capacity	88,287 cubic feet greenhouse volume per unit
 Maintenance	Bulb cleaning every 6 months Bulb replacement every 2 years

# KEY BENEFITS

 Targeted approach	Attacks specific thiol (organosulfur) and terpene compounds.
 Low maintenance costs	No carbon filters, no essential oils and no other consumable products.
 Low operational costs	24/7 operation with low power consumption per unit 0.8 Amps at 220V/60Hz.
 Low space requirement	Hanging design saves critical walkway, cultivation and processing space.
 Multiple control levels	Settings can be adjusted from low to medium to high for varying levels of odor.
 Safe and secure operation	Airculess® ACT is a UL/CE certified odor control technology that is safe to use on your crops.



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