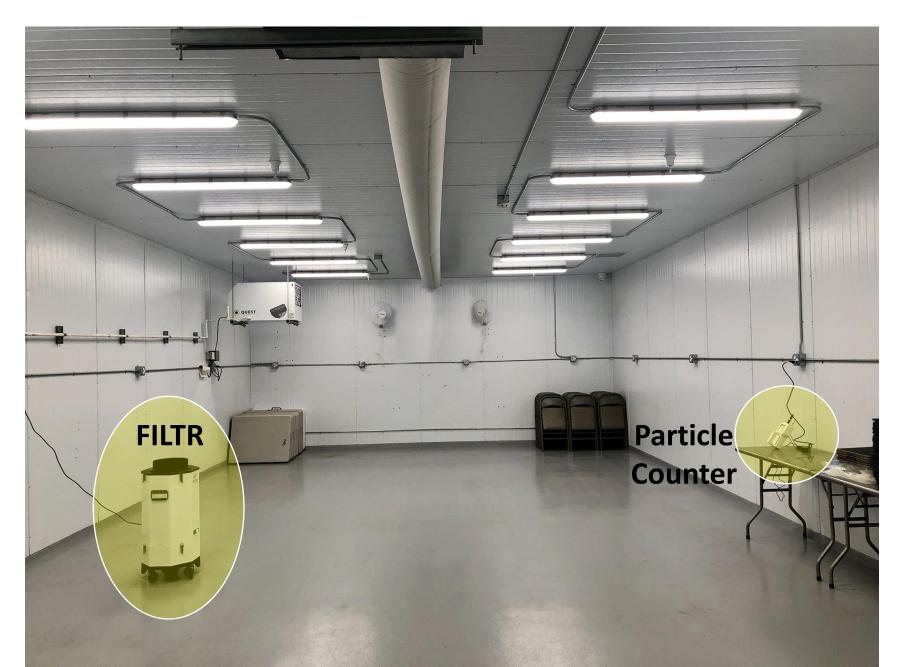
FILTR In-Room Air Filtration Test



Overview

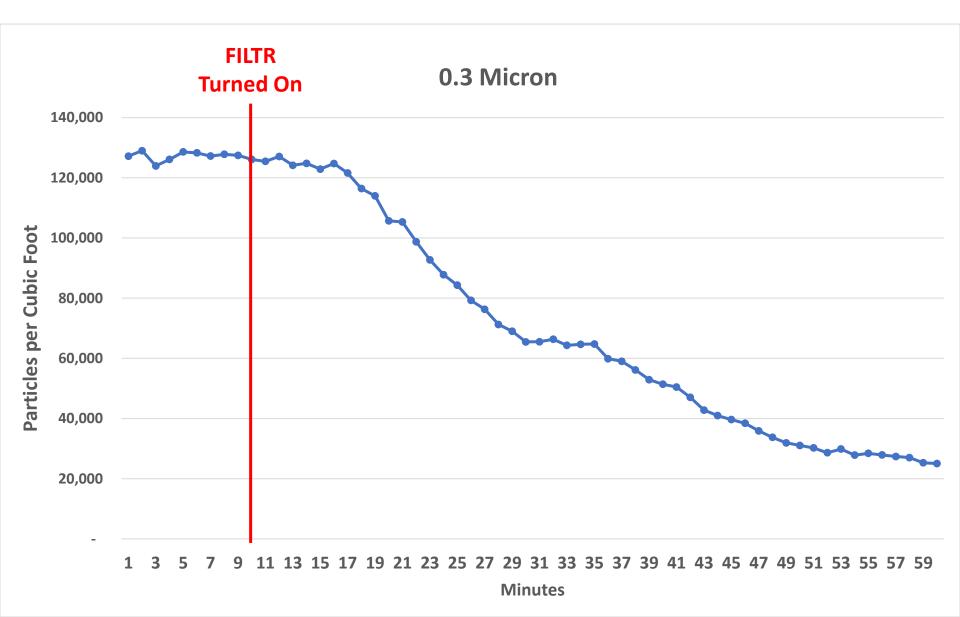
Testing of Lighthouse commercial grade air purification unit, FILTR, conducted on May 3rd 2019.

Room Dimensions: 20 x 40 x 10 Room Cubic Air Volume: 8,000 Cubic Feet Room Status: Empty

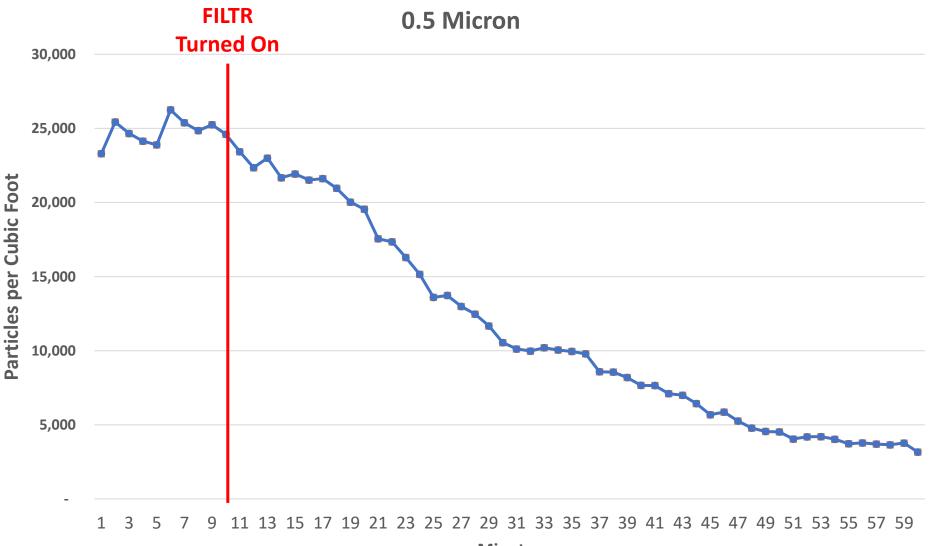
A particle counter was placed on the opposite side of the room and was set to record data once per minute.

The following pages include a graphical representation of the data recorded. A significant drop in particle counts was seen once the FILTR unit was turned on.

80.0 % Reduction in ≥0.3 micron particles in 50 minutes

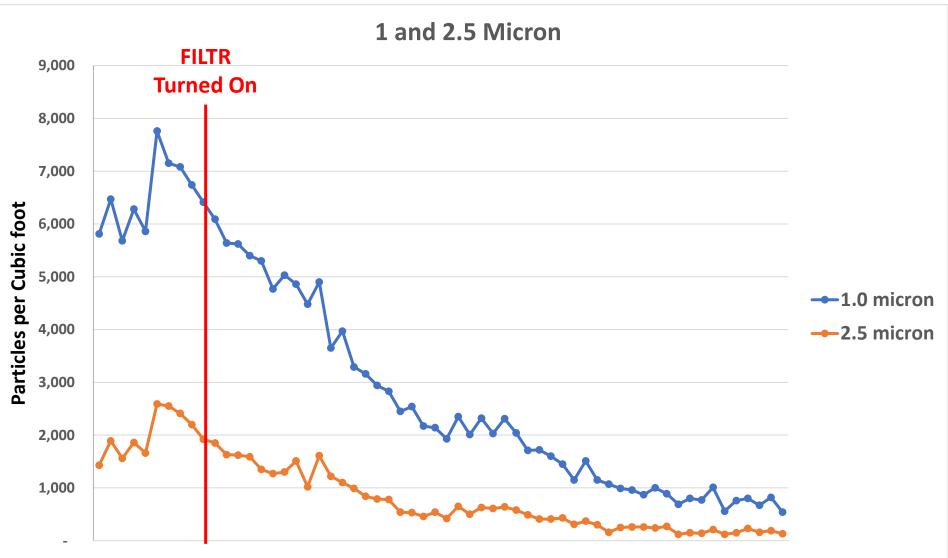


86.4 % Reduction in ≥0.5 micron particles in 50 minutes



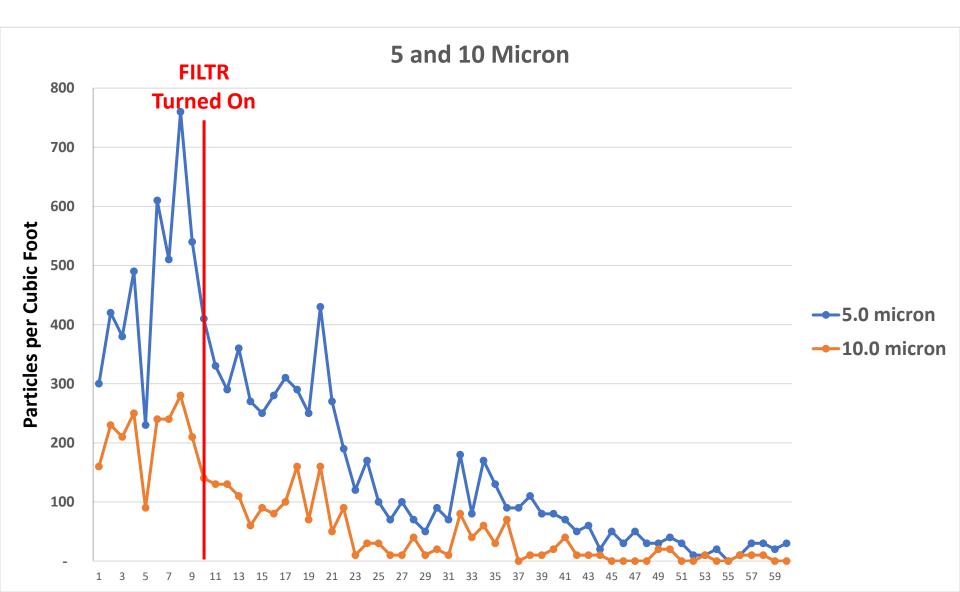
Minutes

90.7 % reduction in $\geq 1\mu$ and **90.9%** reduction in $\geq 2.5\mu$ particles in 60 minutes



1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 55 57 59

90.0 % reduction in $\geq 5\mu$ and **100%** reduction in $\geq 10\mu$ particles in 60 minutes



Summary

Particle Size	Reduction in 50 Minutes
0.3 micron	80%
0.5 micron	86.4%
1 micron	90.7%
2.5 micron	90.9%
5.0 micron	90.0%
10 micron	100%

Summary

Particles (both dust and aerosolized droplets) harboring Pathogens range from 0.5 micron in size and larger.

> In 50 minutes, a single FILTR unit reduced particles by an average of (86.4% + 90.7% + 90.9% + 90% + 100%)/5 =

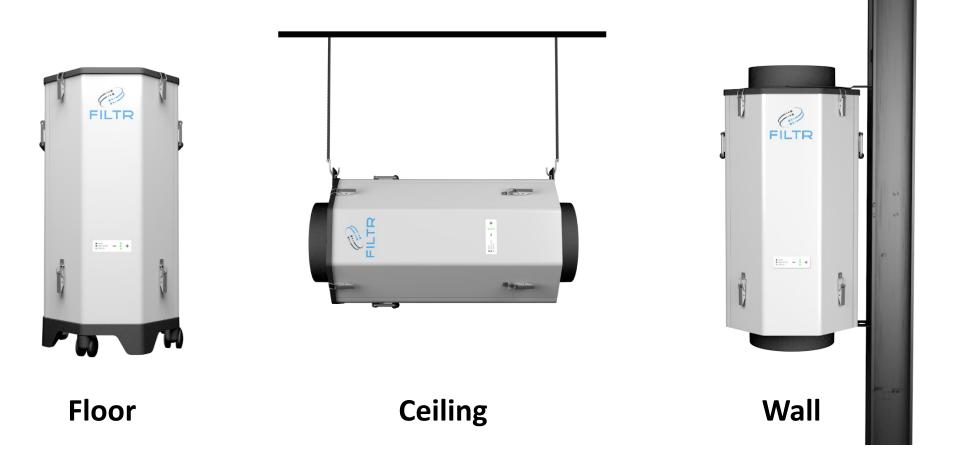
> > 91.6%

FILTR

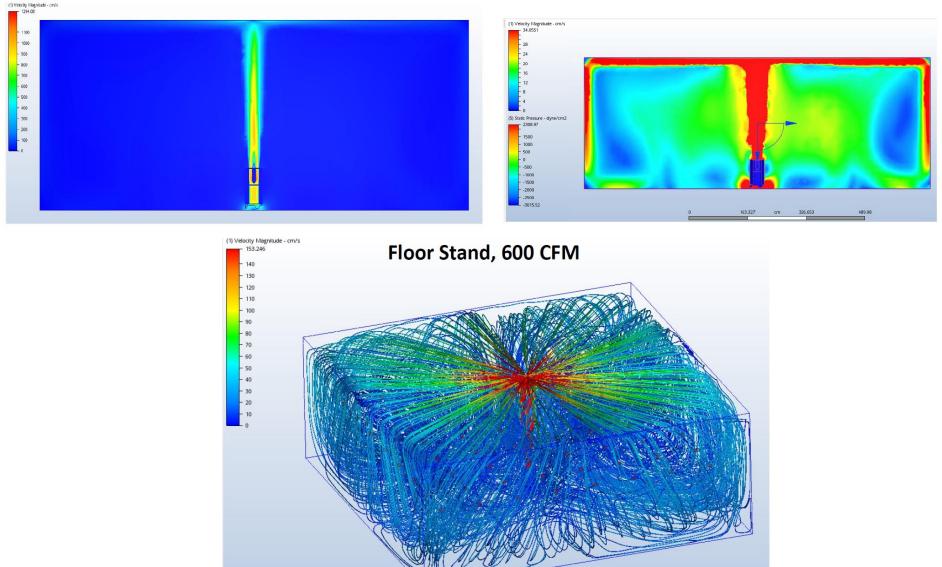
1 mar - 1 +

Mounting Options

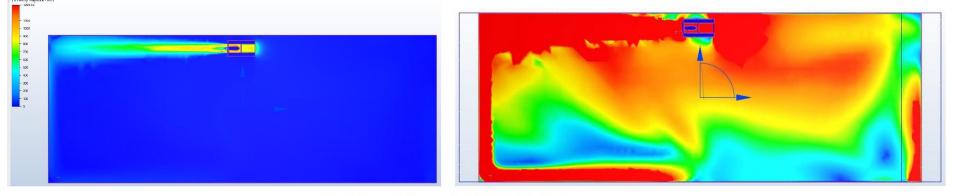
Mounting Options



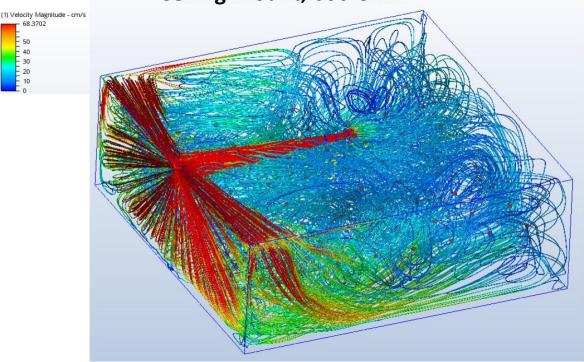
Airflow Dynamics Simulation Modeling Floor Placement, 600CFM



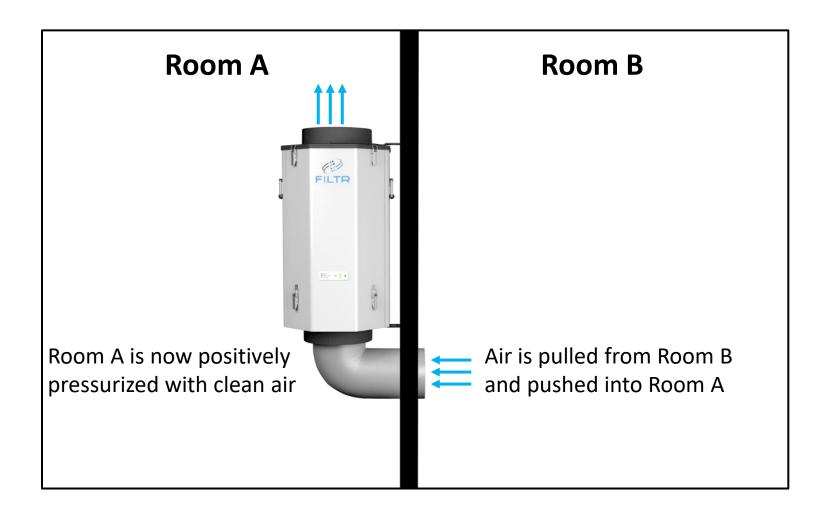
Airflow Dynamics Simulation Modeling Ceiling Mounted, 600CFM



Ceiling Mount, 600 CFM



Positive Pressure

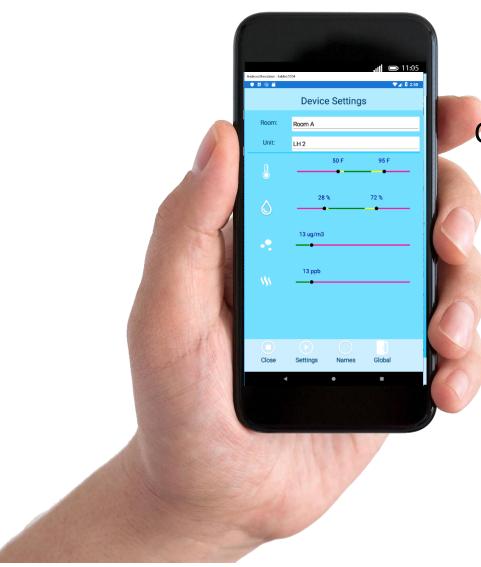


Gain Control





Gain Control



Customizable Alarm Limits

- Limits can be set per device
- Temp/Hum has a high and

low alarm

- PM 2.5
- VOC
- E-mail notifications





- 500 CFM with Carbon Filtration
- 700 CFM with UltraHEPA Only
- Bi-Polar Ionization (currently not available in CA)
- Positively pressurize a room to keep contamination out
- On board sensors that record data every 10 minutes
 - Temperature
 - Humidity
 - PM2.5
 - VOC