RAP

ROOM AIR PURIFIER





price | TERMINALS

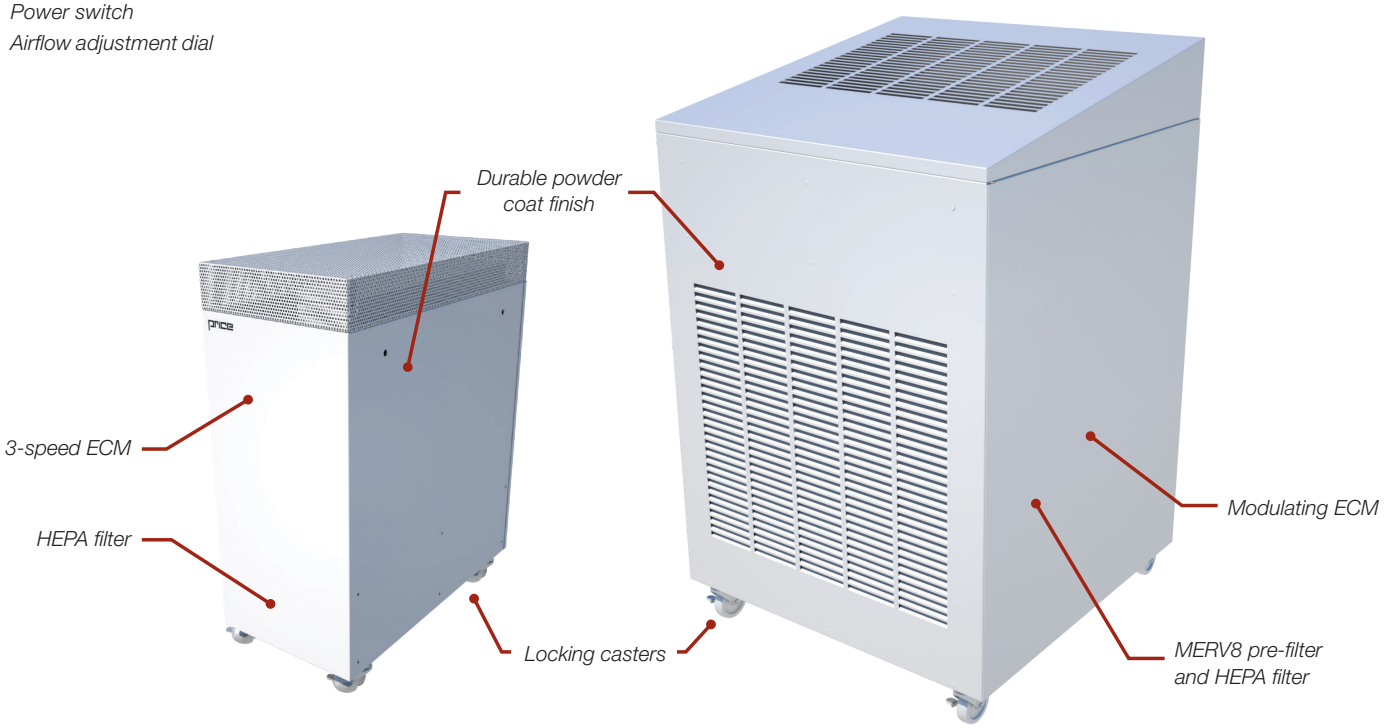
RAP
Room Air Purifier

Indoor air quality is one of the most important aspects of a building and can be improved in three ways: dilution, filtration, and ventilation. Renovating existing HAVC systems to improve indoor air quality can be expensive and time consuming. Indoor air quality can be improved without renovations to existing systems with the use of a room side air purifier.

The Room Air Purifier (RAP) is a commercial grade purifier designed to improve indoor air quality through the use of HEPA filtration. The RAP is a plug and play solution that does not require any modifications to the existing building, making this unit ideal for high density occupied spaces such as schools, offices, fitness centers, retail and restaurants.

Back of unit (not shown):

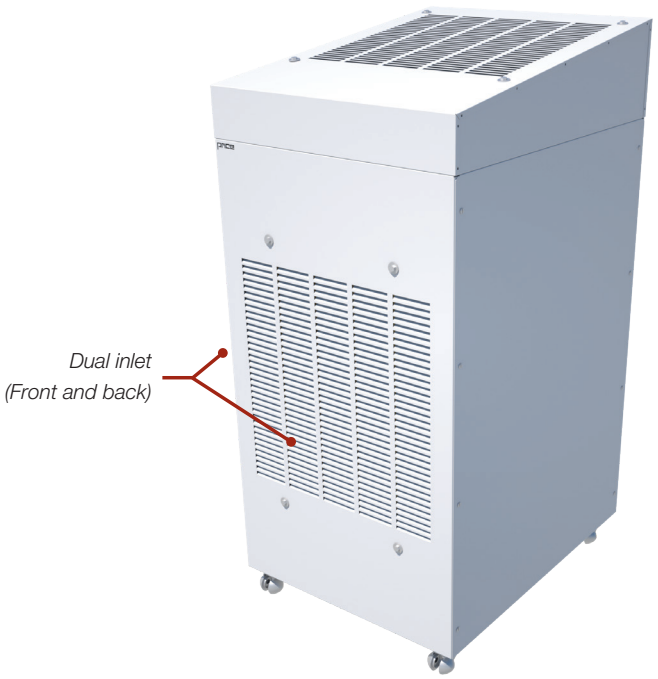
+ *Wall plug*
+ *Power switch*
+ *Airflow adjustment dial*



RAP MINI RAP-600

TYPICAL APPLICATIONS

+ **RAP** – Perfect for all medium to high density spaces such as open offices, schools, hotels and healthcare facilities
+ **RAP-MINI** – Ideal for small, personal spaces such as small offices, teacher work rooms, or huddle rooms.
+ **RAP-1000** – Common in large, multi-purpose spaces with higher airflow requirements such as gymnasiums, cafeterias, large conference rooms, or warehouses.
+ **RAP-Q** – Quiet operation intended for use in classrooms, performing arts centers, and other sound sensitive applications.



RAP-1000



RAP-Q

RAP-Q

QUIET ROOM AIR PURIFIER

The RAP-Q was designed to meet ANSI Standard S12.60 for classroom acoustics. The maximum level of background noise allowed in a classroom under this standard is 35 decibels (dBA). When operating at the rated airflow of 300 CFM, the RAP-Q sound level is 35 dBA. The RAP-Q is equipped with a sound attenuator on the return air inlet and a silencer on the unit discharge.

RAP-1000

1000 CFM ROOM AIR PURIFIER

The RAP-1000 was designed to achieve higher airflow rates to provide better filtration to larger spaces. The RAP-1000 can achieve a maximum airflow of 1000 CFM. This increased airflow rate is made possible with an additional return air opening and two HEPA filters for reduced pressure drop.

RAP-MINI

MINI ROOM AIR PURIFIER

The RAP-MINI is a small, commercial grade air purifier intended for use in any personal, indoor space. The RAP-MINI has a 3-speed external airflow adjustment dial which allows the user to easily adjust the airflow. The RAP-MINI is availabe with bipolar ionization to further improve the indoor air quality of the space.



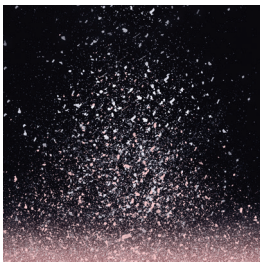
RAP-600

CLEAN AIR DELIVERY RATE

RAP-600 Clean Air Delivery Rate (CADR) testing is performance in accordance with ANSI/AHAM AC-1-2020 by an Intertek laboratory. Clean Air Delivery Rates are determined using Tobacco Smoke, AC Fine Test Dust and Paper Mulberry Pollen. The practical limits of measurability are: Dust 10-600 CADR, Smoke 10-600 CADR and Pollen 25-450 CADR. Clean Air Delivery Rates for the Room Air Purifier can be seen to the right.



Smoke – >600 FT³/Min



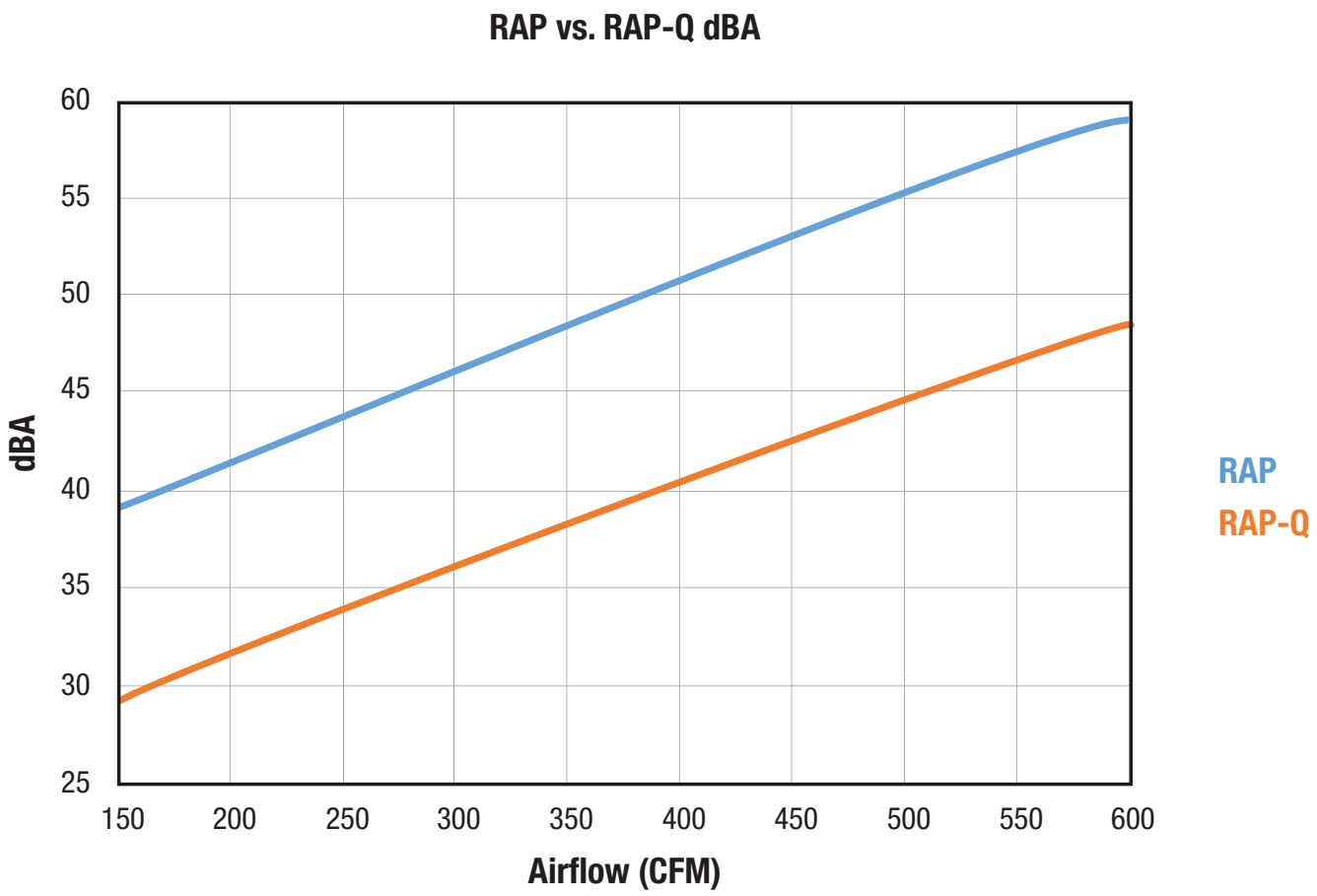
Dust – 589.3 FT³/Min



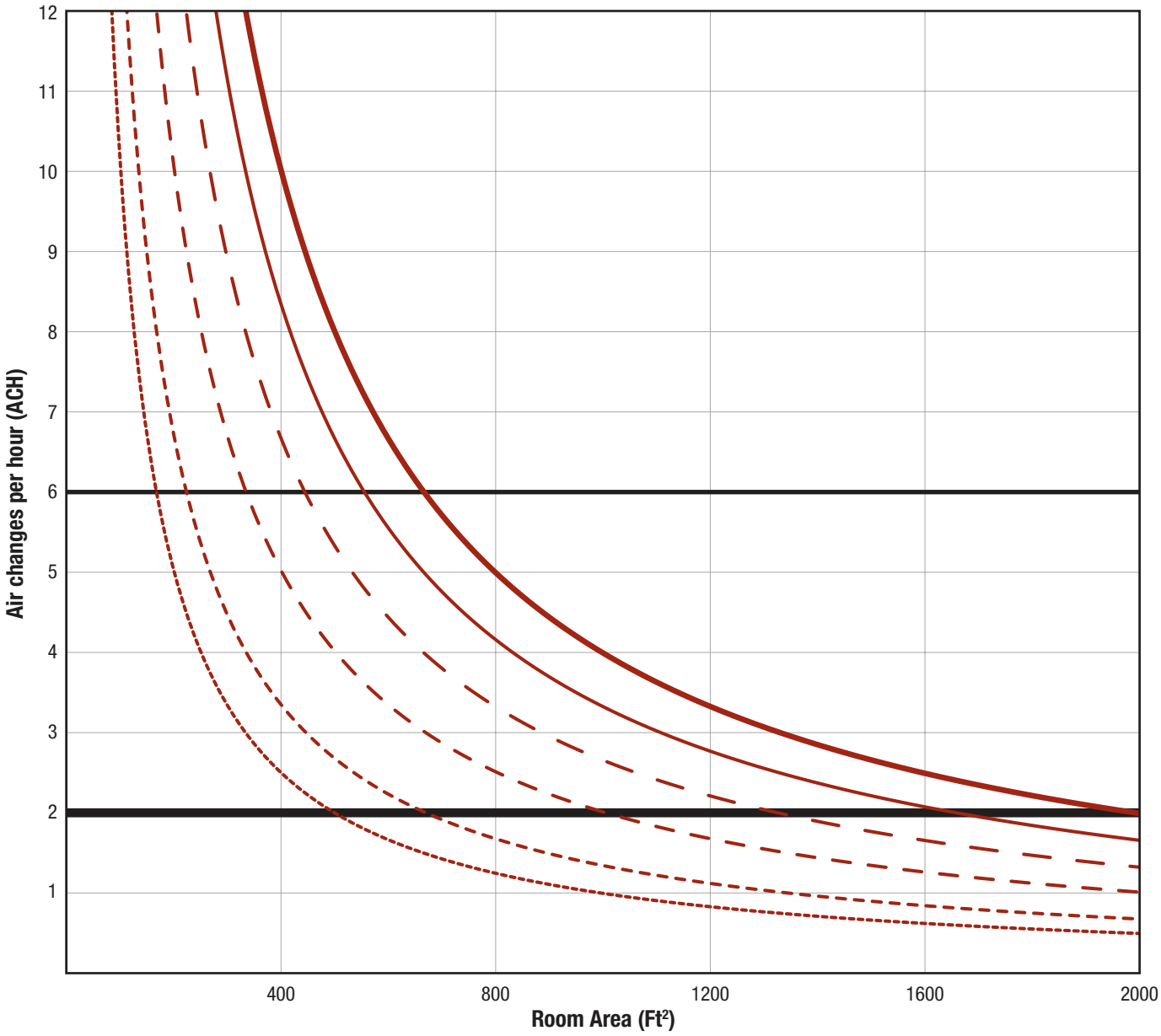
Pollen – >450 FT³/Min

		RAP-600	RAP-1000	RAP-Q	RAP-Mini
Voltage	V	115 V	115 V	115 V	115 V
Max Airflow Rate	CFM	600	1000	600	150
Rated Airflow	CFM	300	500	300	120
Sound Level - Rated Airflow	dB(A)	46	48	35	
Dimensions	H x W x D	34.75 x 23.75 x 23.75	50.75 x 23.75 x 29.75	58 x 23.75 x 30.75	23.5 x 10.5 x 20.75
Pre-filter	MERV8	24 x 24 x 1	24 x 24 x 1 (QTY 1)	24 x 24 x 1	N/A
HEPA Filter	99.99%	24 x 24 x 4	24 x 24 x 4 (QTY 2)	24 x 24 x 4	21 x 11 x 4
Motor Type	ECM	Variable Speed	Variable Speed	Variable Speed	3-Speed
ETL Electrical Safety Certification		YES	YES	YES	YES

SOUND PERFORMANCE



PERFORMANCE DATA



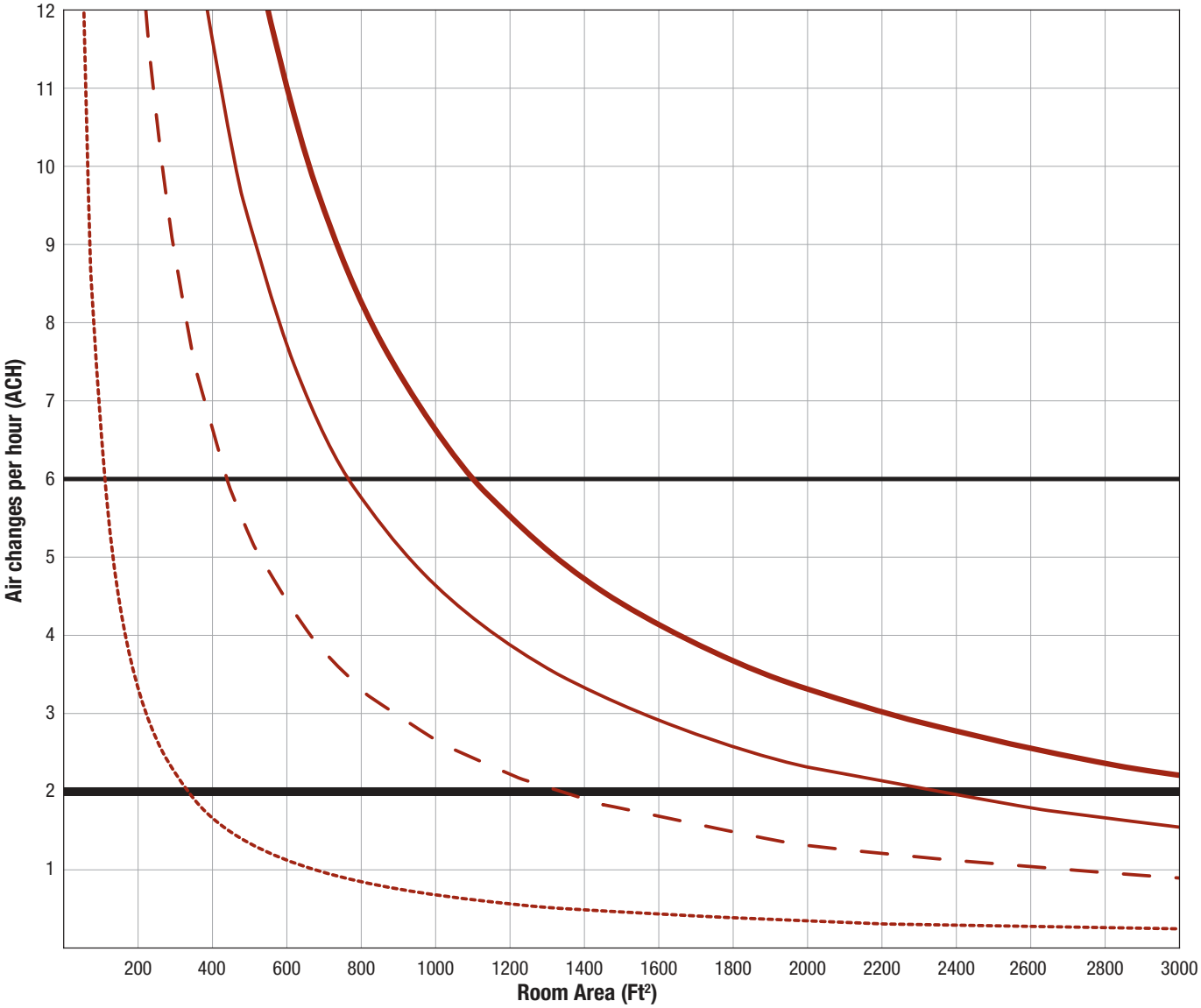
150 CFM — 200 CFM — 300 CFM — 400 CFM — 500 CFM — 600 CFM

The Harvard Healthy Buildings strategy recommends targeting 6 air changes per hour (ACH) for classrooms to maintain ideal air quality [Schools For Health, Risk Reduction Strategies for Reopening Schools (updated 11-2020), Keeping Schools Open Needs to be Prioritized – Schools For Health)]

ASHRAE has recommended a minimum of 2 air changes per hour (ACH) in classrooms [ASHRAE Epidemic Task Force, Schools & Universities, (updated 7-17-202 . Please reference current ASHRAE o most up to date recommendations.

PERFORMANCE DATA

RAP-1000 Air Changes Per Hour vs Room Square Footage



100 CFM

400 CFM

700 CFM

1000 CFM

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ASHRAE recommends a minimum of 2 air changes per hour (ACH) in classrooms [ASHRAE Epidemic Task Force, Schools & Universities, (updated 7-17-2020),
Please reference current ASHRAE or logical guidelines for the most up to date recommendations.

1. RAP-600 is Third-party lab verified to remove up to 99.9% of airborne pathogens under the specified conditions of use.*
2. RAP-600 can be used to increase the air change rate and reduce the concentration of airborne pathogens and other contaminants.*
3. RAP-600 can be used to increase the air change rate and remove airborne pathogens from the space.*

*Removal of 99.9% of airborne MS2 Bacteriophage (virus), A. niger (mold), and E. coli (bacterium) was demonstrated by third-party laboratory when RAP-600 was operated at its maximum set-point in a 10'×10'×10' room at ambient temperature and humidity. A microbial suspension was aspirated into the chamber and sampling was taken every 15 minutes over a period of 2 hours. 99.9% removal was achieved within 30 minutes of test operation for all three of the aforementioned airborne pathogens.

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