

# Reducing Airborne Transmission with HVAC Air Filters

Maintaining healthier breathable air amidst the coronavirus outbreak

Keeping facilities, workers, and families safe during a global epidemic requires various strategies that can reduce the spread of disease. Parker encourages everyone to follow updated information and guidance issued by the Center for Disease Control (CDC) for this rapidly evolving situation.

HVAC filters can reduce but not eliminate the threat of infection. The coronavirus and the particulate it travels on is very small in size, and can range from sub-micron (less than 1.0 micron in size) and larger. High efficiency filters on the market today can trap particulate sizes that are likely to remain in air. Selecting the right filter can reduce risk while improving the quality of indoor air.

Parker is dedicated to providing honest and transparent information about our filtration products to help customers decide which technologies provide the highest chances of trapping virulent pathogens before they enter a building or circulate to different rooms. **Please see the reverse side of this bulletin for our recommendations on Parker HVAC filters that offer the greatest level of protection against airborne illnesses.**

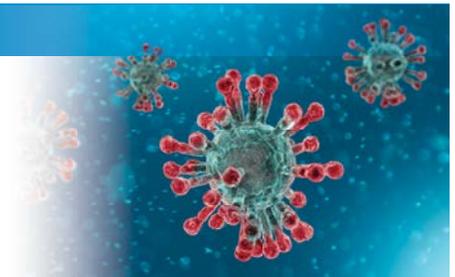
**For questions, call 866-925-2247 or email [CLARCOR.AFP.CustomerService@parker.com](mailto:CLARCOR.AFP.CustomerService@parker.com).**



**IMPORTANT:** Parker's products can reduce airborne particulate in a controlled environment. They would not eliminate risk of exposure to airborne viruses but can be part of a comprehensive plan to help reduce that risk.

## Know how COVID-19 spreads

The spread of the novel coronavirus (COVID-19) mainly occurs through respiratory droplet transfer from person-to-person within a close range of about six feet according to the CDC. The virus can be transmitted on skin, objects, and surfaces that a contagious person may cough on, sneeze on, or touch. Pathogens can also travel on dust and dirt particles as those particles move through the air. Therefore, the potential for airborne transmission through an HVAC system exists.



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# Filtration guidance from the experts

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) has developed proactive guidance for building industry professionals to help address the ongoing concerns of the coronavirus (COVID-19) outbreak. Please visit [www.ashrae.org](http://www.ashrae.org) to access the latest response resources from ASHRAE and other leading organizations with respect to the operation and maintenance of HVAC systems.

## Recommended Parker filters for reducing airborne risk

Parker HVAC filters are manufactured in the U.S. and engineered to the highest standards of design, quality, and assembly. When selecting a filter to combat the threat of airborne transmission, we suggest a minimum efficiency reporting value (MERV) rating of 13 to 16. The higher the value, the better the filter will be at capturing small particles. Our Sub-HEPA, HEPA, and ULPA filters provide the highest level of protection (up to 99.999% on 0.12 microns). Our MERV 16 rated filters provide 90% and higher efficiencies, capturing airborne particles that are the size of viruses.

The following high-efficiency filters are designed for commercial use. All of them meet Leadership in Energy Design (LEED) requirements. They can be ordered through our global network of Dealers and Distributors by visiting [www.parker.com/hvac](http://www.parker.com/hvac).



## Sub-HEPA, HEPA, and ULPA Pathogen Barrier Filters

### Parker MICROGUARD® & MICROPLEAT™

- HEPA Filters: 99.97% and higher on 0.3 micron particulate
- ULPA Filters: 99.999% and higher on 0.12 micron particulate
- Best solution for hospitals, analytical labs, and clean rooms
- Engineered solutions for multiple applications



### Parker MICROGUARD® LR 12" Sub-HEPA Filters

- 98.5% efficiency on 0.3 micron particulate
- Proprietary E-Pleat® embossed media technology



## High Efficiency

### MERV Rating Performance

**MERV 16:** 90% and higher on 0.3 to 0.4 micron particulate, greater than 95% on 1.0 to 3.0 micron particulate

**MERV 14:** 60-70% on 0.3 to 0.4 micron particulate, greater than 90% on 1.0 to 3.0 micron particulate

**MERV 15:** 80-90% on 0.3 to 0.4 micron particulate, greater than 95% on 1.0 to 3.0 micron particulate

**MERV 13:** 40-50% on 0.3 to 0.4 micron particulate, greater than 85% on 1.0 to 3.0 micron particulate



### Parker Aircuard® VARI+PLUS® and Purolator™ SERVA-Cell® VA (MERV 16 and MERV 14)

- 4-V mini-pleat filter
- Non-woven fiberglass media



### Parker ADVANTAGE® 2" Mini-Pleat Filters (MERV 16 and MERV 14)

- Captures viruses, mold spores, and bacteria from 0.5 to 1 microns
- Best solution for hospitals, analytical labs, and clean rooms



### Parker Purolator® DEFIANT® Cell Rigid Filters (MERV 15)

- 12" depth
- Non-woven media with electrostatic enhancement



### Parker Purolator® DEFIANT® Bag Filters (MERV 15)

- 12", 15", 18" depths
- Non-woven media with electrostatic enhancement



### Parker LoadTECH® Rigid Cell Filters (MERV 14)

- 4" and 12" sizes
- Proprietary E-Pleat® embossed media technology



### Parker DP-Green and Purolator® Puro-Green® Extended Surface Pleated Filters (MERV 13)

- 2" depth
- 100% synthetic media resists moisture
- Heavy-duty beverage board frame

