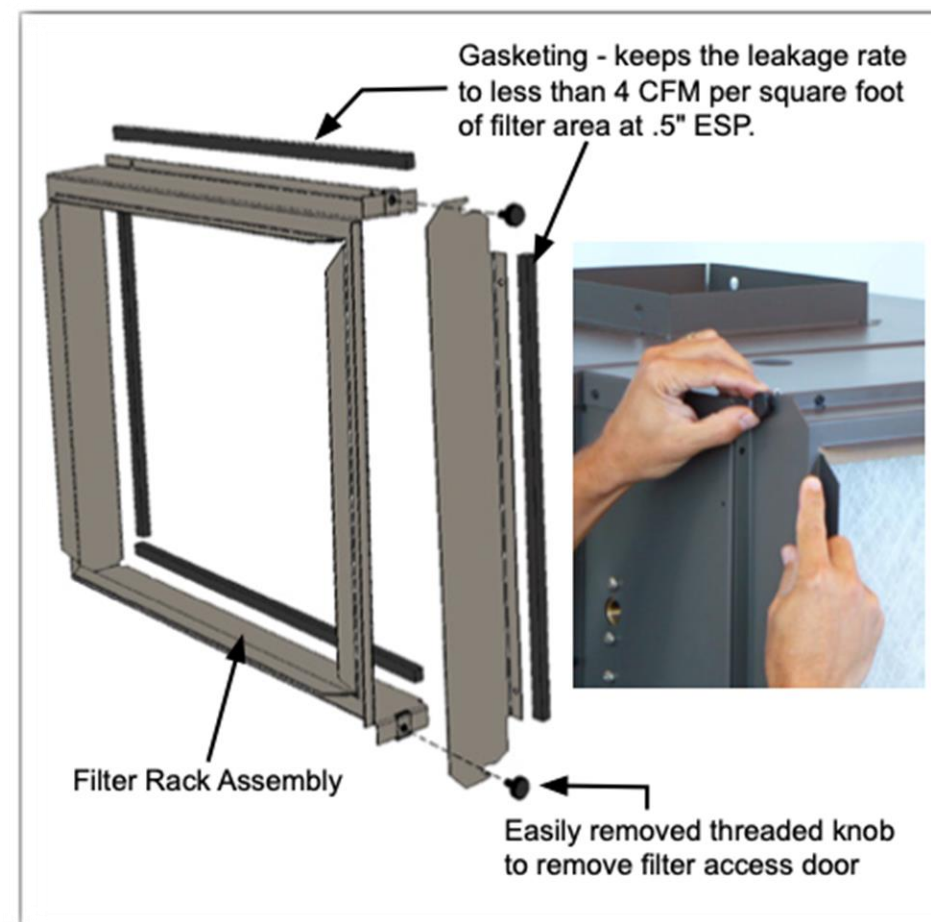


Implementation & Considerations



What are the next steps?

- If MERV 13 filters are installed in the existing equipment then order additional filters for future filter changes.
- Filter Rack Maintenance and Replacement:
 - If filter rack is damaged then repair rack,
 - Ensure filter rack is sealed to prevent bypass of unfiltered air,
 - Review seal installation procedures with maintenance and operations staff,
 - Replace and Upgrade Rack if possible, to accept a filter with a higher MERV rating.
- Consider changing out motor to increase static pressure available, but this may require significant electrical modifications.
- Adjust the Variable Frequency Drives to address increase in static pressure for filters.



Implementation & Considerations Continued



If MERV 13 Filters cannot be installed, consider the following:

- Increase the filtration in the unit to the maximum available
- Provide a recirculation fan filtration unit and duct into the return of units
- Provide a HEPA filtration unit which re-circulates air within the space
- Consider additional treatment technology to kill/disable airborne infectious aerosols (refer to [Building Readiness Document](#) for additional guidance)
- Refer to [ASHRAE Filtration and Disinfection system](#) section for additional information
- Consider alternate filter locations in return duct or grille but consider static pressure drop implications and relationship with outside air dampers

Additional Considerations:

- Install a pressure gauge on units to assist in determining filter change frequency
- Document motor amperages before and after filter changes, alarm points in BAS may need to be updated
- Filter change frequency may increase due to seasonal and atmospheric considerations at different sites (such as Pollen Season)
- There will be an increase in fan energy used to overcome additional pressure drop from filters
- With an increase pressure drop for filtration there will be less airflow to heat and cool the spaces during peak design days
- Additional supplementary heaters or cooling devices may be required

Implementation & Considerations Continued



HVAC System Maintenance and Filter Replacement during the COVID-19 Pandemic:

- For HVAC systems suspected to be contaminated with SARS-CoV-2, it is not necessary to suspend HVAC system maintenance, including filter changes but additional safety precautions are warranted
- The risks associated with handling filters contaminated with coronaviruses in ventilation systems under field-use conditions have not been evaluated
- Workers performing maintenance and/or replacing filters on any ventilation system with the potential for viral contamination should wear appropriate personal protective equipment (PPE)
- When feasible, filters can be disinfected with a 10% bleach solution or another appropriate disinfectant, approved for use against SARS-CoV-2, before removal. Filters (disinfected or not) can be bagged and disposed of in regular trash, or applicable local health and safety standards
- When maintenance tasks are completed, maintenance personnel should immediately wash their hands with soap and water or use an alcohol-based hand sanitizer.

