

Carrier

Light Commercial Rooftop Units

4" FILTER RACK

The 4" Filter Rack accessory kit provides the option to install thicker filters within the cabinets of rooftop units.

As indoor air quality has become an increasing focus, the flexibility to install up to 4" MERV 13 filters is now easier than ever with this offering.

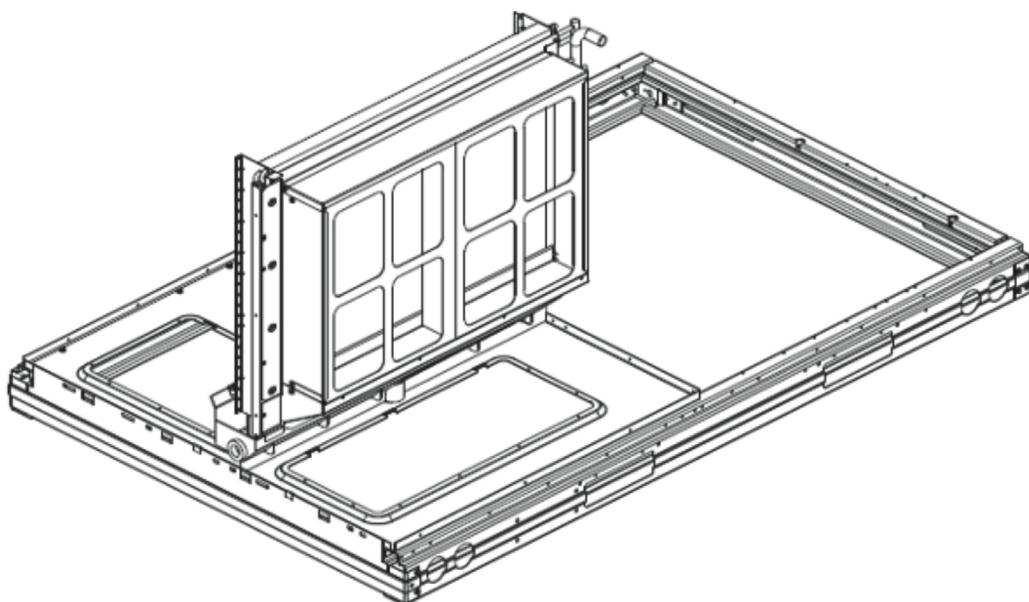
How does increasing from a 2" filter to a 4" filter help?

Let's first understand the impact of a filter in the system. Increasing the MERV rating of a filter also increases the resistance or pressure drop of the airstream as it passes through the system. The key to combating this increased pressure drop is increasing the surface area of the filter media. The higher the velocity pressure on a surface, the higher the pressure drop. If the surface area is increased, the velocity pressure is distributed over a wider area which decreases the

resistance. One technique for increasing surface area is by using pleated filters. When using a 4" filter over a 2" filter the pleat depth is further increased. This results in the 4" filter having a decreased pressure drop while maintaining the same MERV rating of the 2" filters normally used.

Overall, installing a 4" MERV 13 filter will capture more particulates within the airstream while also decreasing the pressure drop compared to a standard 2" MERV 8. Another added benefit is that decreasing the pressure drop will directly reduce the horsepower needed, saving fan energy and operating cost throughout the year. The 4" filter will also result in a longer life expectancy, which help decrease the maintenance required when compared to a 2" filter of the same MERV rating.

The image below displays the position orientation of a 4" Filter Rack on a unit chassis.



ARENAS



AUDITORIUMS



DATA CENTERS



EDUCATION



HEALTHCARE



HOSPITALITY



INDUSTRY



MIXED USE



OFFICES



RETAIL



Table 1 – Filter Kits

FILTER KIT	FILTER SIZE AND QUANTITY
CRFLTTRK002A00	16x20x4 *2
CRFLTTRK003A00	16x25x4 *2
CRFLTTRK004A00	20x24x4 *2
CRFLTTRK005A00	16x20x4 *4
CRFLTTRK006A00	16x20x4 *4 & 20x20x4 *2
CRFLTTRK001A00	Varies, refer to product data

Available on the following Carrier® Packaged Rooftop Units:



48/50 TC(Q)



48/50 HC(Q)



48/50 LC



48/50 FC(Q)



48/50 GC(Q)



48/50 JC



HEALTHY BUILDINGS



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