



Perfecting the Air



Compatible with:



Providing up to 6 months of lifetime
Size 526 x 523 x 35 (mm)



High performance pre-filter

MERV 8

DAIKIN AIR FILTER

For Sensing flow / Round flow **BAF552A160**

Captures 97% of 1.0 - 3.0 μm particles*
Captures 99% of 3.0 - 10 μm particles*
when air passes through filter 10 times

* Please refer to Filter Efficiency on the back for details.

What is MERV rating?

Minimum efficiency reporting value, or MERV for short, is a filter rating system devised by ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers) to standardize and simplify air filter efficiency ratings for the public. Recently, MERV recognition has been spreading worldwide, and many buildings are increasingly required to use MERV certified filters.

The higher the MERV rating, the higher the effectiveness of the air filter. By comparison, the typical fiberglass throwaway filter has a rating of MERV 4 or less. If allergies or asthma are your concern, we suggest you choose a MERV 8 filter at a minimum. MERV ratings allow you to effectively compare one type or brand of filter to another.

MERV 8 filters can collect particles that have harmful effects on the human body such as PM2.5 (See Fig. 1). MERV 8 filters have less impact on air conditioner operation, allowing a single filter to be used longer.

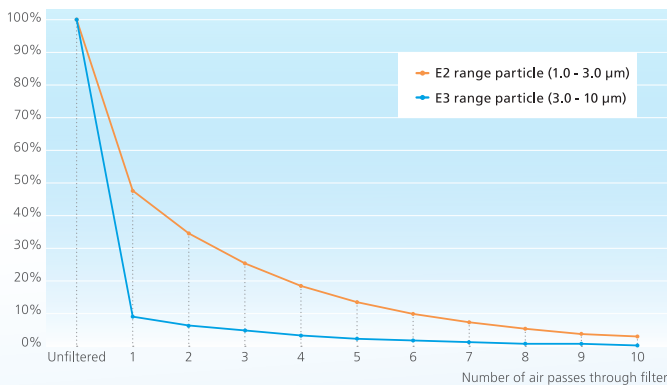
Fig. 1 Criteria for achieving MERV 8 (ASHRAE52.2 : 2017)

| MERV | Composite Average Particle Size Efficiency, % , In Size Range, µm | | | |
|----------|---|----------------------|---------------------|--------------------------|
| | E1 Range (0.3 - 1.0) | E2 Range (1.0 - 3.0) | E3 Range (3.0 - 10) | 10 µm ~ |
| 1 - 4 | n/a | n/a | <20 | Effective for collecting |
| 5 | n/a | n/a | <20 | - |
| 6 | n/a | n/a | 35≤ | - |
| 7 | n/a | n/a | 50≤ | - |
| 8 | n/a | 20≤ | 70≤ | - |
| 9 | n/a | 35≤ | 75≤ | - |
| 10 | n/a | 50≤ | 80≤ | - |
| 11 | 20≤ | 65≤ | 85≤ | - |
| 12 | 35≤ | 80≤ | 90≤ | - |
| 13 | 50≤ | 85≤ | 90≤ | - |

Filter Efficiency

The results of our in-house tests have proven that this filter can meet MERV 8 standard. In addition, as the air conditioning system continues to operate, the air in the room will pass through this filter many times. As a result, more harmful substances in the air can be captured. For example, more than 97% of 1.0 - 3.0 µm sized substances, including PM2.5, can be collected by circulating air through the filter 10 times (See Fig. 2).

Fig. 2 Percentage of particles remaining in the indoor air*1



*1. This figure is simulated based on the actual measured data of one-pass performance and assumes that particles do not occur continuously in the room. By repeating the one-pass performance about 2-10 times, one can expect the attenuation as shown in the figure.

| SPECIFICATIONS | | | | |
|---|--------------------------|------|------|------|
| Filter rating (ASHRAE52.2 : 2017) | MERV 8 | | | |
| Airflow rate | m ³ /min | 13.0 | 22.9 | 37.0 |
| Initial pressure drop*2 | Pa | 18.1 | 35.8 | 81.4 |
| Lifetime*3 | Up to 6 months (1,250 h) | | | |
| Weight | g | 520 | | |

*2. This result is based on the test of the filter only. The results may be different in the actual use environment where the filter is installed in the indoor unit.

*3. Filter lifetime may vary depending on the condition of the operating environment. Certain instances such as high traffic areas, pets or smokers in a residence, or other situations may require more frequent changes.