

BASE Buildings HVAC Characteristics: Particle Filtration Systems - Frequency of Maintenance Actions for Different Configurations

Frequency of Actions	Number of Buildings Reporting		
	Frequency of Panel Filters Replacement ¹	Frequency of Manual Roll Filters Advancement ²	Frequency of Automatic Roll Filters Inspection ³
None	1	0	0
As Needed	4	4	0
Daily	0	0	0
Weekly	0	0	2
Bi-Weekly	0	0	0
Monthly	10	6	0
Semi-Quarterly	2	3	0
Quarterly	47	2	0
Semi-Annually	17	2	1
Annually	12	1	1
Total Number of Buildings Reporting	93	18	4

Notes:
¹Data represent panel filter replacement frequencies for 93 BASE buildings equipped with this filter type.
²Data represent frequency of manual roll filter advancement for 18 BASE buildings equipped with this filter type.
³Data represent frequency of automatic roll filter inspection for 4 BASE buildings equipped with this filter type.

Variable Descriptions:

Frequency of Panel Filters Replacement refers to the frequency that panel filters are changed out by building facilities personnel. Panel filters are manufactured in rectangular panels that are placed alongside each other in the filter bed. They are removed and either replaced or cleaned when dirty.

Frequency of Manual Roll Filters Advancement refers to the frequency that manual roll filters are advanced by building facilities personnel. Manual roll filters consist of a fabric roll mounted on a spool that moves across the airstream. The media is manually wound on a take up spool to expose new filter material when necessary.

Frequency of Automatic Roll Filters Inspection refers to the frequency that automatic roll filters are inspected by building facilities personnel. Automatic roll filters consist of a fabric roll mounted on a spool that moves across the airstream. The media is automatically wound on a take up spool to expose new filter. The movement of the media is often controlled by a pressure switch which senses the pressure drop across the media, or by an automatic timer.

The frequency categories are as follows:

None means that filters are not changed, advanced or inspected.

As needed means that filters are changed, advanced or inspected only when deemed necessary.

Daily means that filters are changed, advanced or inspected each day.

Weekly means that filters are changed, advanced or inspected once per week.

Bi-weekly means that filters are changed, advanced or inspected twice a month.

Monthly means that filters are changed, advanced or inspected once per month.

Semi-Quarterly means that filters are changed, advanced or inspected twice every three months.

Quarterly means that filters are changed, advanced or inspected every three months.

Semi-annually means that filters are changed, advanced or inspected once every six months.

Annually means that filters are changed, advanced or inspected once a year.