

234000 HVAC Air Cleaning Devices

1.1 AIR CLEANING DEVICES

A. FILTERS: The following are baseline requirements for air filters. Additional requirements for specific installations, such as for air handling units with coils, are described with the equipment.

1. Filter Selection

i. ~~Pleated, extended surface filters are preferred.~~

ii. All HVAC devices with coils shall have filters installed.

iii. If an HVAC device comes from the factory with only one set of filters the filters shall be pleated only. They shall be a minimum of MERV 13.

iv. Outside air filtration

1. Any equipment with outside air intake shall have filtration on the outside air.

2. These filters will be a minimum of MERV 8.

v. Pre-filtration

1. These filters will be a minimum of MERV 8.

vi. Final Filters (AHU only)

1. All final air filters shall be a minimum dust spot efficiency rating of 80%, which corresponds with the MERV of 15.

2. Final filters shall be bag type. Cartridge filters are not acceptable unless approved in writing by Facilities Services.

2. Provide differential pressure gauges (delta P) for each filter section.

i. Gauges shall meet the Differential Pressure Transmitter section of the 253000 standard. (Currently section Q)

ii. If there are multiple filter sections in close proximity to each other they shall have space between them large enough to allow for accurate DP measurements.

3. Provide the manufacturer's information concerning pressure drop through the filters and recommended maintenance intervals necessary to prevent filter blowout and clogging.

i. All filter sets should be designed to have a minimum service life of 3 months.

4. Carbon filters are not allowed without written permission from Facilities Services.

5. Where required to meet air quality requirements filters (individual and banks) shall be sealed to prevent infiltration of by-pass air. Areas that do not require sealed filters should not use them.

6. All filters shall be 2" thick minimum.

7. All filters shall be standard size and not proprietary. Examples of standard size filters are 16x20; 20x20; 24X24; 12x24.

8. If spacers are required in the filter rack, they shall be permanently installed.

END OF SECTION