

WVU DESIGN GUIDELINES & CONSTRUCTION STANDARDS
DIVISION 23 – HEATING, VENTILATION, AND AIR CONDITIONING

SECTION 234100 – PARTICULATE AIR FILTRATION

PART 1 - GENERAL

- 1.1 Any deviance from the following instructions must be approved during design by WVU Facilities Management project manager.

PART 2 - PRODUCTS

- 2.1 If an air handler regularly brings in more than 50% outdoor air, it shall be supplied with Airguard “Mist-Defier” filters. Their Minimum Efficiency Reporting Value, (MERV), is 7. These are highly resistant to moisture which is necessary on foggy or rainy days.
- 2.2 Kitchens/food prep areas shall have two banks of disposable filters. The prefilter shall be the same type noted in Paragraph 2.1. The second filter bank shall also be moisture resistant with a MERV of 11 and an efficiency of 55 – 65%. Filters shall be a minimum of 2” thick.
- 2.3 All other air handlers shall have at least one filter bank with a minimum MERV of 7 and an efficiency of 25 – 30%. Filters shall be a minimum of 2” thick.
- 2.4 A differential pressure gage is required for each set of filter banks.
- 2.5 Manometer style gages shall be installed with integral leveling gage, 0 – 3 inch w.g., and accurate to within +/- 3% of full scale range.

PART 3 - EXECUTION

- 3.1 Upon substantial completion of the project, all of the filters will be removed and replaced with new.
- 3.2 Angle filter system shall be used.

END OF SECTION 234100