23 40 00 - HVAC AIR CLEANING DEVICES

PART 1 GENERAL

1.1 PURPOSE:

A. This standard is intended to provide useful information to the Professional Service Provider (PSP) to establish a basis of design. The responsibility of the engineer is to apply the principles of this section such that the University may achieve a level of quality and consistency in the design and construction of their facilities. Deviations from these guidelines must be justified through LCC analysis and submitted to the University for approval.

1.2 REFERENCES:

A. Codes and Standards:

1. ANSI/ASHRAE 52.2 – Method of Testing General Ventilation Air - Cleaning Devices for Removal Efficiency by Particle Size.

1.3 REQUIREMENTS:

A. Provide area for removal of pre-filter from upstream of airflow and final filter from downstream of airflow.

B. Indicate on drawings filter requirements, single or dual. Only filter sizes of 24” x 24” and 24” x 12” are acceptable.

C. Provide dual filter arrangement on dedicated outside air units.

PART 2: PRODUCTS

2.1 FILTERS:

A. Filter Section (Dual Filter): Provide filter sections to allow for 2” thick, pre-filter, dry type, moderate efficiency, MERV 8, pleated disposable filters with 100% synthetic media. Provide 12” - 24” deep, high efficiency, MERV 13 final filter. Final filter shall be box type and shall be 100% synthetic media.

B. Filter Section (Single Filter): Provide flat filter sections with hinged access doors on each end of the section. Furnish 2" or 4” thick, dry type, moderate efficiency, MERV 8, pleated disposable filters with 100% synthetic media.

2.2 HOUSINGS:

A. Shall be provided by air handling unit manufacturer. Provide access doors on each side of section. Provide gasketed galvanized steel filter blanks to prevent air bypass around filter.

END OF SECTION 23 40 00