

## SECTION 01230 – ALTERNATES

### PART 1 – GENERAL

#### 1.1 ALTERNATES

- A. Provide “Add” or “Deduct” pricing/costs for the Owner’s and Architect’s consideration. Prices shall be complete with all overhead, profit, equipment costs, labor, insurance, etc., so that if Owner exercises his option to delete or add scope of work, the resultant “Add” or “Deduct” price will be all-inclusive.
- B. HVAC Alternates
  1. Alternate H-1: UVC Emitters at Air Handling Units
    - a. Provide an alternate price for the installation high output UVC (ultra-violet C-Band) emitters within the custom air handling units. The UVC emitters shall be installed in accordance with the emitter manufacturer’s recommendation for spacing at the cooling coils to control mold and bacteria growth on coils and in AHU drain pans. UVC tubes shall have a UV output of 158 UW at 1 meter, 68°F and 400 fpm air velocity; 122 UW at 1 meter, 45°F and 400 fpm; and 11.1 UW per inch arc length at 45°F and 400 fpm. Average tube life shall be rated at 7,500 hours. UVC emitters shall be similar to units manufactured by STERIL-AIRE Inc., Cerritos, California, Model DE Series. Pricing shall be provided to install UVC emitters within the following AHU units: AHU-1 & AHU-2. Pricing shall include associated electrical costs for adding one (1) 20A, 120 volt dedicated emergency circuit and local disconnect device for each AHU.
  2. Alternate H-2: StrionAir Filters @ AHU’s
    - a. Provide pricing, replace the traditional Media pre-filters (4”, MERV 8) and intermediate filters (12”, MERV 13) with StrionAir germicidal, high efficiency, low pressure drop, GC filter assembly. The StrionAir GC filter assembly shall include a 4” deep MERV 7 (30%) pre-filter followed by an ionization grid assembly. The GC shall meet the required efficiency for GHeloP – Class Technologies of 85% for 0.3 micron particles. Initial clean filter pressure drop shall be less than 0.5” wg at 500 fpm face velocity. The GC filter assembly shall be powered by a 120V single phase circuit. Pricing shall be provided to install UVC emitters within the following AHU units: AHU-1 & AHU-2. Alternate pricing shall be all-inclusive, including electrical power circuit and associated wiring.

END OF SECTION