

## Particulate Control

APC Technologies, Inc.'s **Ultra High-Efficiency Filter (UHF®)** systems use a special design for solid particulate and liquid/mist control including smoke, oil mist, condensed hydrocarbon fumes, haze, heavy metals, dust, and bacteria emissions with control efficiency of up to and in excess of 99% including sub-micron size particulate. Applications range down to particle sizes of less than 0.05 micron. When the particulate is sticky, oily, and/or corrosive, the UHF® is especially advantageous as the UHF® has no issues with blinding or plugging.



The UHF® system provides for substantially lower space requirements than alternate technologies, resulting in low capital cost. Units come in renewable and non-renewable filter types. Filter replacement is simple and can be performed while the system is on line, for 24/7 operation with no downtime.

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For **particulate control** when loading levels are higher, APC's PC Series Coated Baghouses may be ideal for the application. Additional contaminants besides fine particulate can be addressed with APC's coated baghouses, including gas-phase contaminants such as SO<sub>x</sub>, other acid gases, mercury, and VOCs, through the use of different or multiple coated materials. APC furnishes the complete system. APC also offers venturi scrubbers and high-efficiency cyclones. These systems are also low in capital cost, simple to operate, and provide very high control efficiency for larger particle sizes. These devices may also be used as pre-filters before a UHF® unit in applications with high particulate loading levels.

Particulate control applications for APC's UHF® filters, coated baghouses, venturi scrubbers and high-efficiency cyclones include: adhesives, aluminum plants, asphalt plants, auto recycling, bakeries, biomass furnaces, boilers, chemical plants, coating operations, coffee production, combustion process emissions, food processing, furniture manufacture, foundries, waste and sludge incinerators, indoor plant air quality, insulation, lime kilns, metals industry and related processes, mining, oil mists, oven dryers, painting operations, plating, plastics, polymers, power plants, printing, pulp and paper operations, recycling plants, rendering, resins, roofing products, rubber products, pharmaceuticals, sealants, spray drying, syngas cleaning, textile finishing, tire operations, turbine gas intake, waste processing, wastewater treatment, and wood products manufacture.