



MercPure Series Mercury Emission Control Systems

APC offers three proven, cost-effective technologies for mercury air emission control:

MercPure FB Series Systems

MercPure Fixed Bed (FB Series) systems provide very high removal efficiency (up to 99%) for mercury using fixed adsorption beds of specialty, granular activated carbon media that are custom-selected for the application. APC's activated carbon media for these fixed bed systems are available to address both low- and high-temperature applications. Typically APC's one-of-a-kind ultra high-efficiency filter (UHF) unit precedes the adsorption vessel(s) to remove ultra-fine liquid aerosol and particulate down to and below 0.005 micron in size, greatly extending carbon media life, and allowing continuous mercury control at high efficiency.

MercPure PAC Series Systems

MercPure powdered activated carbon (PAC) injection systems include carbon metering and injection systems, interconnecting piping and ductwork supply, and downstream fabric filter (if not already in place) to deliver mid to high removal efficiencies (up to 90% typ.). These systems also work in both low- and high-temperature conditions and are ideal for larger gas volumetric flow rates where fixed adsorption beds become infeasible.

MercPure MB Series Systems

MercPure Moving Bed (MB Series) systems utilize patent-pending technology employing unique mercury adsorption media to deliver mid-range removal efficiency for mercury at very low capital and operating costs. The MB Series system offers the lowest pressure drop available and eliminates plugging potential. The MB Series can be ideal where a polishing stage is required for moderate reduction of mercury emissions.

Low Operating and Maintenance Costs

Filter replacement is simple and can be performed while the system is on line, with no impact to the process or downtime. The UHF system often consumes less power than competing technologies, as high control efficiency is achieved at lower pressure drop. The UHF system is virtually maintenance free.

Broad Range of Applications

Applications for MercPure Series systems include: wastewater treatment plants (sludge incinerators), hospital waste incinerators, municipal waste incinerators, waste-to-energy plants, fossil fuel fired boilers, retort furnaces, fluorescent bulb manufacturing, chlor-alkali plants, taconite plants, chemical plants, and specialty refineries. Specialty activated carbon media

Proven Through Performance

APC Technologies' complete line of emission control systems have a proven track record of reliability, cost effectiveness, and consistent performance in many demanding environments.

