

Mist Eliminators

High Efficiency Vanaire Mist Eliminator Technology

is 99.99% efficient and can capture particles as small as one micron!

Vanaire mist elimination technology outperforms wet scrubbers at capturing the airborne particles of many compounds. Many chemistries evolve in mist form with particle sizes that are collected more efficiently by means of inertial impaction or mechanical impingement than by the continuous recirculation of scrubber water. Vanaire mist elimination results in energy savings and a reduction of effluent.

Vanaire designs mist eliminator technology for most any application producing acid mist, alkaline mist, oil mist or, in some cases, mists from organics. Mist eliminator designs are available from the simple eliminator that may be 99% efficient on particles 25 microns in diameter, to the more complex and most highly efficient eliminator that is 99.99% efficient on 2 micron particle sizes, and 99% efficient down to an incredible one micron!

Chromax I – a true closed-loop system

The Chromax I is the most advanced chromium and/or acid mist eliminator available in the industry today. Utilizing the latest Composite Mesh Pad technology, Vanaire's Chromax I meets "the California Standard", the New Source Mact Standard, and the tough individual state AQMD Standard.

Chromax I is a closed-loop, multi-stage mist eliminator that utilizes a sequence of engineered mesh pads to remove and agglomerate chromium particles. While the recovered chromium is being returned to the plating tank, an automatic spray wash-down feature keeps the mesh pads clean and makes up for tank evaporative losses. By-pass evaporative loss is prevented since the mesh pads are sealed inside the vessel. A constant tank level is maintained as evaporation is balanced with the spray wash down volume creating a true closed-loop system. No effluent goes to waste treatment.

Vanaire's proprietary design is extremely effective controlling other acid mists such as sulfuric acid associated with battery charging, nickel compounds, all metal plating chemistries, alkaline mists, and any other chemistries or processes that evolve in mist form.

The Chromax I features the Drawer/Track Cartridge and Mesh Pad Removal System to ensure easy maintenance access.

