POLLUTION SOLUTIONS

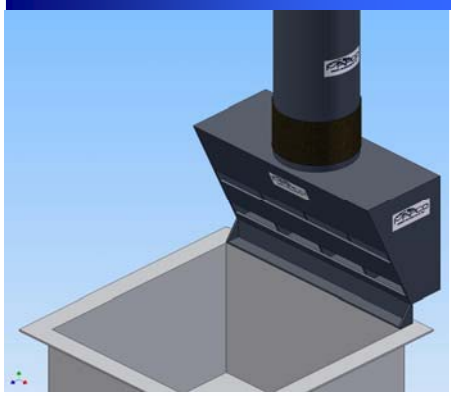
TERMINATOR™ EXHAUST HOOD

Reference No. 17095—4-15-04

MAPCO PRODUCTS

- FUME SCRUBBERS
- ENFORCER III™ (CMP) MIST ELIMINATOR
- TERMINATOR™
- ULTRA-MACT™
- PREDATOR™
- FUME ARRESTOR™
- MISTMASTER™
- PVC DUCTWORK
- EXHAUST HOODS
- INSTALLATION
- SERVICE

Mapco Terminator™ (CMP) exhaust hoods, pvc ductwork, installation and start-up



Plater Captures Fugitive Emissions , Operates Closed-Loop

Background

A Michigan company successfully operated several large brass plating tanks for many years. Although applicable air exhaust permits did not require fume scrubbing or mist elimination from this process, an interest by management to remain pro-active corporate citizens resulted in a search for fume capture and removal technologies that were of high-efficiency design, inexpensive to operate and a reasonably inexpensive capital expense. Common sense might dictate these to be contradictory goals, yet a search was implemented and a product found that satisfied all three requirements. Contact was made with the application engineers at Midwest Air Products Co. (MAPCO) in Traverse City, MI. MAPCO engineers recommended replacement of the existing steel fume hood with their PVC "Terminator" hood design. These hoods incorporate a high-efficiency 2-stage Composite Mesh Pad mist eliminator with internal washdown headers, magnehelic gauges and solid PVC construction. The MAPCO design would provide 99% removal of mists down to 2 microns, create an effluent flow so low that all washdown could be returned to the respective plating tank, and at pressure drops so low that the existing steel exhaust fans could be re-used.

Management ordered four large hoods, and installation was completed a couple of weeks later. The fume hood collection and elimination system built by MAPCO included a control panel with timer to provide for brief, periodic and automatic washdowns of each of the mesh pad stages. The MAPCO design is low maintenance, and after more than 18 months of operation, had not required any removal or manual cleaning of the mesh pad stages. The fume hood design was used in conjunction with a push-air system that greatly improved fume capture at the tanks, and without increasing the CFM exhaust volumes.

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