



MICRO AIR Machine Mounted OM550DD's Reduce Airborne Mist and Haze in Wichita, KS. Machine Shop

CLEAN AIR SOLUTION REPORT

Application: Oil Mist Generated in the manufacture of mission critical controls—non-automotive
Location: Wichita, KS
Products: Micro Air OM550DD (18 ea.) and 8 ea Ambient MX3510's configured for oil mist

Challenge: Wescon, in Wichita Ks, a machine shop that machines parts for mission critical controls...all non-automotive, found that their antiquated electrostatic air filtration system was not working at all. Upon inspection, they found absolutely no air flow at any of the pick-up points. Wescon 's goal was to reduce odor and mist from these machining operations and supply clean, breathable air to the shop floor.

Solution: Wescon had a substantial budget, but it was determined early on, due to space limitations, that MISTMAX™ would not be an option.



The original concept consisted of machine mounted OM550DD's for the (18) enclosed machines, and hoods ducted to OM550DD's on the (10) open machines. The machine-mounted and ducted OM550DD's would capture most of the contaminant, but, for any residual mist or haze, we suggested the addition of ambient MX3510's, configured for oil mist and equipped with carbon modules to eliminate the odors.

Micro Air Advantage: The final solution...Wescon, working with Brandon Saner, in the Kansas Direct Territory, purchased 18 each machine mounted OM550DD's and 8 each ambient MX3510's, with oil mist filtration, drain plugs, and carbon after-filter modules. They decided to go with the machine-mounted OM550DD's for the enclosed machining centers, but chose not to add the hoods and OM550DD's to the open machining centers, thinking that the ambient MX3510's would capture most of the mist generated from the open machines.



Testing prior to installation of Micro Air units resulted in 7,800,000 particles / ft³. Today, with Micro Air units capturing mists and odors, particulate count is at 1,300,000 particles / ft³., leaving Wescon extremely happy with the results. Recent field test calculations showed an 84% reduction of the airborne particulate, even though there are still 10 machines that do not include source capture filtration.

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