



MICRO AIR DUAL MM2400 *MISTMAX* Mist Collector on High Volume CNC Lathes at Automotive Supplier

CLEAN AIR SOLUTION REPORT

Application: Oil Mist Generated in the manufacture of automotive component parts.

Location: Denso TN

Products: Micro Air Dual MM2400 4800 CFM Mist Collector equipped with Intelli-Touch.

Challenge: As a major manufacturer of component parts for the automotive industry, Denso was looking for a solution to their oil mist concerns in their TN production facility. The requirement was for a high volume, high efficiency, long life filtering unit to replace some older traditional style filtration units. The older units were leaking oil and required expensive, frequently maintained HEPA filters in order to meet Denso's strict emissions standards. Their process required capturing 4800 CFM from 12 CNC lathes in a tight footprint to save precious manufacturing space.

Solution: After consulting with the exclusive Micro Air distributor in the Southeast, Air Purification, Inc., it was determined that the best solution to meet all of the customer's requirements would be a Dual MM2400 *MISTMAX* oil mist collector. The unit's high efficiencies without the requirement of a Hepa and expected 2000-4000 hour filter life fit the bill. In addition to the filtration unit, Micro Air was able to offer their exclusive Intelli-Touch control panel. The Intelli-touch control panel automatically varies the frequency of the motor/blower on the system to only use as much brake horsepower as is required based on changing loading conditions and not only saves 20-30% of the electricity costs associated with running the system, it makes sure the system is running at ideal "design conditions" 100% of the time, thereby maximizing filter life. Through 2000 hours of run time and the time of this printing, the *MISTMAX* filters were running at approximately half of their filter life.

Micro Air Advantage: Using Micro Air's exclusive *MISTMAX* cartridge filters, the system effectively removes over 99.98% of the mist laden pollutants brought into the mist collector and helps the end user maintain low operating costs while meeting the most stringent air quality standards of today and into the future. The Micro Air *Intelli-Touch* control panel further reduces electrical demand by as much as 30% through a variable frequency drive systems and automatically controls operating conditions in the mist collector to maintain maximum efficiency through maintaining ideal operating conditions. This also extends filter life by as much as 40-50% over traditional operating systems.



L2649-08/10

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