

# Clean Air Solution Report-Laser Cutting



**Application:**  
Multiple Laser Cutting  
Tables  
**Location:**  
Indiana



We initially received a call from one of our OEM's that one of their customers required a large central system for their new building. Since a central system was not a typical system sold through our OEM, they asked us to deal directly with this customer. After making contact with the customer, it was determined that they wanted a system that would handle up to 6 Lasers even though it would only have 3 installed initially. The customer wanted a complete turnkey system that included wall exhaust fans and louvers to evacuate the heat in the summertime. In addition, the customer wanted to provide the typical downdraft ventilation as well as custom overhead canopy hoods.

Micro Air and their distributor, Slade Associates were able to provide the very customized installation in less than 8 weeks from design to installation, which was something Brand-X could not accomplish. The system included 2 ea. Custom Painted RP8-4's for a total of 64 cartridges; a 75 HP Fan capable of up to 21,000 CFM, a custom built spark arrestor and a winter/summer damper on the return air back to the building. The Air-to-Cloth ratio was critical since this was going to be a 24/6 operation, so the system was designed for less than a 1:1 ATC ratio.

The Micro Air system filters the fume/smoke at a filtration efficiency exceeding 99.99% and features our unique Roto-Pulse self cleaning cartridge filters. With the system in operation for over 3 months and working very well, the magnahelic gauge is reading only 3".

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