

Clean Air Solution Report-40,000 CFM Welding Smoke/Fume



Application:
Welding Smoke/Fume

Location:
Isaacson Steel
Berlin,
NH



Isaacson Steel, a large structural steel fabricator located in Berlin, New Hampshire, experienced a fire in an existing cartridge dust collector. Aquest Corp., Micro Air's distributor in the area, received a telephone call requesting design engineering support, a site visit and a "fast track" proposal. Within 24 hours, Aquest was on-site, completed an in-depth engineering audit and submitted a formal proposal that included demolition and removal of the existing system, supply and delivery of a Micro RP8-8 Cartridge Dust Collector, fabrication of all ductwork and a field installation program plan.

The fully automatic, self cleaning, RP 8-8 64 cartridge filter unit was engineered to handle up to 40,000 cfm of contaminated plant air. The system included Micro Air's unique Roto-Pulse automatic compressed air filter cleaning system for on line and off-line duty, differential air pressure monitoring of filter performance, a return air plenum for energy savings, and a corrosion resistant coating for outdoor application at this steel fabrication facility located in a harsh, northern New England environment.

Within two weeks from receipt of order, Micro Air and Aquest delivered the dust collector as specified. Upon arrival, the Micro Air unit was off-loaded, assembled by Aquest technicians, and placed on the existing cement pad. This work was accomplished on time, in snow, with an outdoor wind chill temperature of 20 degrees below zero. Aquest designed, fabricated and installed all interconnecting duct and transition pieces, reconfigured the entire system and provided start-up services. The entire system was physically inspected for damage and debris.

The new Micro Air cartridge collector provides capture and removal of all welding smoke, dust and fumes from the indoor area, filter efficiencies of 99.995% at .3 micron and the clean air is returned to the building through ductwork and air dispersion "socks" located at the ceiling level to minimize hear loss throughout the facility.

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