



# AIR HANDLING

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**SYSTEMS**

## Static Electricity and Grounding for Dust Collection

Static electricity requires grounding a dust collection system which is why Air Handling Systems provides galvanized metal spiral pipe and fittings and flexible hose with wire helix. A plastic or PVC pipe system cannot be adequately grounded. National Fire Protection Association (NFPA) requires pipes and duct be constructed of metal and be grounded and that non conductive pipe or ductwork should not be used per NFPA 77 (Recommended Practice on Static Electricity). NFPA 77 also covers the use of flexible hose and requires flexible hose to have an internal wire which contacts the metal fittings and makes a good connection. Another caveat is with nonconductive connections, where the code calls for a “jumper cable” to be used to continue the conductivity.

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