

Generator exhaust and air inlet direction

What is a diesel generator air intake & exhaust system?

The diesel generator air intake and exhaust system (DGAIES) provides the diesel engine with combustion air from the outside. The combustion air passes through a filter and silencer before being compressed by a turbocharger and cooled by the coolant system before entering the individual cylinders for combustion.

Where should a generator air duct be placed?

The air should flow over the entire generator horizontally, thereby cooling the alternator and effectively purging internal heat. As for the exhaust fans, they should be placed high and directly above the generator to extract heat and undesirable emissions. Air Duct: Duct systems are likely to require multiple turns.

How do generator exhaust systems work?

Units located inside a building often require the exhaust to be routed up through the roof, up the side of the building, or to a free-standing stack. Generator exhaust systems for years have been fabricated from sections of schedule 40 carbon steel pipe that are field welded, then insulated to reduce surface temperatures.

Why do generator exhaust systems need to be properly designed?

Generator exhaust systems need to be properly designed to ensure correct engine performance and safe operation. System design has become more complex with the desire to keep emissions low, along with the desire to utilize the heat energy in the exhaust gas.

Who designs and installs a generator exhaust system?

The proper design and functionality of a generator exhaust system falls on the responsibility of the engineering firm of record. If a field fabricated system is being utilized, the design and installation of the system must be a collaboration between the engineering firm and the installing contractor.

Where is the exhaust on a Generac generator?

The exhaust on a Generac generator is typically located at the rear side of the unit. Proper exhaust setup is vital to ensure safe and efficient operation.

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