

Exhaust system generator

What is a generator exhaust?

A generator exhaust is a system designed to direct the fumes and output away from the engine or a diesel generator or petrol generator. It also helps to direct the heat away from the engine, preventing overheating. Exhausts ensure the proper and efficient working of your generator.

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.

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.

How does a gen set exhaust system work?

A gen set exhaust system must collect gases from engine cylinders and discharge them as quickly and silently as possible. It must minimize back pressure, which can cause horsepower losses and temperature increases that can shorten the engine's life. Several factors impact the exhaust system performance.

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.

Does field fabricated generator exhaust need insulation?

Field-fabricated generator exhaust also requires insulation. The amount and type of insulation should be stipulated by the mechanical engineer who is responsible for this system to ensure protection for the facility and personnel. Specific design and engineering required to ensure a safe reliable system.

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