

# Standard drawing of exhaust duct of generator set

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.

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.

What are the design requirements for a generator coolant outlet?

Regardless of the type of system installed at the generator site to cool the set, the following requirements and recommendation apply. The first design requirement is to limit the engine coolant outlet temperature to the "Maximum Top Tank Temperature" listed on the Generator Set Data Sheet.

Can a generator be connected to an exhaust system?

Horizontal exhaust outlets may be cut off at an angle and protected with birdscreen. Rain caps can freeze closed in cold environments, dis-abling the engine, so other protective devices may be best for those situations. A generator set should not be connected to an exhaust system serving other equipment, including other generator sets.

How should a duct system be constructed?

All exhaust system should be constructed of new materials and installed in a permanent and workmanlike manner. Duct supports of sufficient capacity should be provided to carry the weight of the system. The interior of all ducts should be smooth and free from obstructions, especially at joint, elbows, and bends.

What temperature does a generator exhaust system emit?

Generator exhaust systems must also be engineered and properly installed to accommodate thermal expansion. Generator exhaust systems emit exhaust at temperatures anywhere from 500°F up to 1300°F depending on the unit size, manufacturer, and type of fuel burned.

For DG set below 1000 kVA  $H = h + 0.2 \times \sqrt{kVA}$ . Where H = height of exhaust stack h = height of building.  
For DG set above 1000 kVA - Minimum 30 meter; In case building height is more ...

achieve the standards set by various bodies. 2.0 Entities Driving Sound Attenuation of Generator Systems: ... generator set can cause vibrations to the building structure. All such connection ...

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Generator Room - General o Generator set is clean with all guards in place as approved drawing. o Ensure there are no loose materials left around the diesel generator set. o Air ducts are clean ...

exceeds 40°C (104°F), the generator must be derated per the generator derate schedule and cool outside air must be ducted directly to the generator air intake. Alternatively, ...

Stack Height Calculation for DG Sets to ensure effective dispersion of exhaust emissions and to comply with the regulations. Stack height is a critical consideration when installing diesel generator sets (DG sets) to ensure ...

This study is to analyse the exhaust back pressure of older and new exhaust piping design and silencer or muffler position after modification of the exhaust system of a 4-stroke marine diesel ...

The generator set will be delivered to site, inspected, stored properly, and shifted into position. Installation will follow the manufacturer's guidelines and approved drawings, including setting ...

Diesel Generator Set will be off loaded to the place nearest to the ... Site Engineer has to ensure the orientation of DG set as per approved shop drawing Exhaust duct & fuel oil pipe ...

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