

Function of the air inlet shutters in the generator room

Where should the exhaust shutter be located in a generator room?

Since the generator room is generally on the first underground floor, there should be a large enough exhaust vertical, which is beneficial to noise elimination. The inlet shutter is generally located at the rear end of the generator, and the exhaust shutter is located at the position corresponding to the inlet shutter.

How should a generator be ventilated?

Preferably, the source of ventilation air should be as low as possible and the air should flow over the entire generator set, thereby cooling the alternator, engine block, and radiator (for sets with unit-mounted radiators) to remove the after-cooler and jacket-water heat.

Where should the air door be set on a diesel generator?

The air door can be set at the connection between the tuyere and the outdoor, which is normally closed, and can be automatically turned on when the unit is running. Considering the air intake, exhaust and smoke exhaust of the diesel generator set, the machine room is preferably located in the first floor if possible.

What are the design parameters of a generator?

Generator-room temperature, ventilation airflow, ventilation air cleanliness, and air movement are critical design parameters that must be analyzed during the design process to ensure optimal and reliable operation of the generator set. It is critical that an adequate amount of ventilation airflow be delivered to the generator room.

Where should exhaust air be sourced for a generator?

For generators with remote radiators, it is recommended that the exhaust air should be sourced as high as possible and directly above the generator sets. Significant bypass of ventilation airflow directly into the discharge airflow will lead to reduction in cooling effectiveness and elevated temperatures within the room.

How should a mechanical engineer design a genset room?

Mechanical engineers should design generator set rooms so that the electrical system meets the design goals set by the owner and electrical engineer. Understand that indoor generator sets require special attention to accessibility, code, airflow, and other factors. Know how to design a genset room to meet optimal system performance.

Major components can be removed and replaced. Clean and relatively cool air can circulate around the generator set. Ventilation airflow (room inlet airflow) is adequate to reject the heat produced during operation and support the engine ...

Determination of diesel generator room: Considering the air intake, exhaust and smoke exhaust of the diesel generator set, the machine room is preferably located in the first floor if possible. However, the functions of

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high ...

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