

Do I need an exhaust fan for a generator?

Some indoor installations may require the use of one or more exhaust fans, to provide adequate ventilation during generator operation. Exhaust fans must have the proper capacity for the specific application. In addition, the fans must be located so that engine exhaust gases will not re-enter the building.

What is a restriction to air flow in an air cooled generator?

Louvers, screening, expanded metal and other materials used to cover air openings are a restriction to air flow. This restriction must be compensated for by making the air opening size proportionally larger. When possible, position the engine end of air cooled generators in line with the air inlet per the manufacturer's recommendation.

How do you find the size of a generator air duct?

Find the area of the generator's inlet air duct, by multiplying the air duct height by its width. Divide the inlet air duct area by the percentage of free air inlet area for the particular screening or expanded metal to be used. The result is the required size of the air inlet opening in the building.

How do you duct a generator?

This heated air must be expelled to the outside of any structure housing a generator. Whenever possible, use no ductwork at all. Simply position the inlet air duct so that air will be drawn directly over the generator and expelled horizontally to the building exterior (outdoors).

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(3) The gap between the fan blade tip and the air hood is generally 1.5~2.5% of the fan diameter. (4) The position of the fan in the air hood: suction, 2/3 is inside, exhaust, 1/3 is inside. The ...

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When a generator is installed and operated in an indoor environment, adequate ventilation for heat dissipation and combustion is required. Ventilation is typically done through the ...

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