# Design of air inlet shaft for generator room

How do I allow airflow across a genset?
Permit airflow across entire genset from alternator end to radiator end. (See Inlet and Outlet Design Guidelines,page 6-75.) Draw/discharge ventilation air directly from/to outdoors. (See Inlet and Outlet Design Guidelines,page 6-75.)

Does the genset equipment room need a ventilating system?
The genset equipment room will require a powered ventilating system. See Ventila-tion in this section for information on the volume of air required for proper ventilation. Since the engine of the genset does not have to mechanically drive a radiator fan,there may be additional kW capacity on the output of the genset.

How do I determine genset room airflow requirements?
Use the following method to determine the genset room airflow requirements. The engine and alternator will emit heat to the genset room. In Figure 6-43, this heat is labeled QGS. Consult the Generator Set Data Sheet to determine the amount of heat, as shown in Figure 6-44.

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 much airflow should a gen set have?
The ventilation system should sufficiently move air to control temperature in all areas of the engine room. The following equations provide the proper airflow (cfm or m3/s velocity for a given gen set installation,assuming 100 F (38C) ambient temperature: Airflow (cfm or m3/s should increase 10 percent for every 2,500 feet (760m) above sea level.

What should be included in a genset room?
A turning vane should be used to help reduce the restriction caused by the wall. A drainshould be included with the turning vane to prevent rain water from entering the genset room. The genset room must be kept free from dirt and debris. Ventilating air that is polluted room ventilation system,engine,or alternator.

Guide to PlaceTTrent of Ve ntilation Air Intake Louvers" fo r the project, the phenomena, standards, and design experiences that affect the placement of intake air louvers are reviewed ...

NFPA 110 requires that the room in which the EPS equipment is located shall not be used for other purposes that are not directly related to the EPS. (7.11.1) Parts, tools and manuals for ...

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What is the prime purpose of the ventilation system in the generator room? The proper ventilation serves two main purposes: producing enough oxygen for fuel combustion and cooling the environment surrounding ...

Generators that are installed indoors require careful attention to a multitude of factors - including the accessibility of generators, as well as design and routing of the ventilation airflow. Accessibility: It is advised to ...

ply the emergency generator room [20 ... the energy used by the fan to blow the air inside the room and to identify the best arrangement of air distribution inlet/outlet in order to ...

o UL 2200, "Standard for Stationary Engine Generator Assemblies" o International Fuel Gas Code o Ann Arbor City Code, Chapter 119 Noise Control . Design Requirements: Use U-M Master ...

o Cool air to the air cleaner inlet. o Cool air to the torsional vibration damper. o Habitable temperatures for the engine operator or service personnel. o Cooling air for the ...

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