



# Air intake for basement generator room

What are the requirements for a generator room?

In areas such as these, make sure the generator room is elevated. Ventilation: Requirements maintain that air must be allowed into a generator room to allow for cooling. Depending on the size and number of units in a generator room, air-intake may also bring in outside precipitation.

Can a generator be kept in a basement?

For example, basements that may be prone to flooding during a heavy rain or that are located near rivers that may overflow are not safe places to keep generators. In areas such as these, make sure the generator room is elevated. Ventilation: Requirements maintain that air must be allowed into a generator room to allow for cooling.

Does a generator intake need cool air?

It is important to note that cooling air is needed for more than just the engine; the generator intake also requires cool clean air. The most effective way to do this is to provide a ventilation air source low to the ground at the rear of the package.

How should a generator be installed indoors?

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 arrange an ample space between the generator and walls of the room- for ease of inspection and maintenance.

Does a generator need ventilation?

Large generators, configured with an air inlet positioned high on the generator, will require an additional source of ventilation air. If Ventilation Type 1 or Type 2 is not feasible, an alternative is Type 3; however, this routing configuration will require approximately 50% more airflow than Type 1.

Where should a generator be placed in a commercial building?

commercial office buildings, schools, and condominiums to provide backup power for elevators, emergency lighting, fire pumps and computer servers. Typical design practice is to place generators inside the buildings, at grade or in the basement with openings for cooling air intake and discharge.

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 routine maintenance and repair are permitted to be ...

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