

Reading your OP, I would first inquire from the generator supplier if it is possible to provide specially build generators to withstand 55dC ambient temperatures. It will cost a lot more ...

This paper aims at differentiating between the ambient temperature vs. air-on-core (AOC) method of rating the performance of a cooling system used on a generator set.

Exhaust fans are used to prevent heat buildup within the generator room, while supply fans are used to provide fresh air for combustion and efficient generator performance.

Understanding how air cooling works, along with its advantages and disadvantages, can help you make an informed decision about whether it's the right cooling method for your generator.

If an existing generator installation starts to have problems related to very high ambients, after all the usual factors have been eliminated, a review of the installation itself should be made including:

Cooling systems are designed to provide adequate cooling for full load operation at a specified ambient air temperature typically between 40C^o; (104F^o;) and 50C^o; (122F^o;;).

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When specing a generator set with an enclosure for use in a hot climate, outside air temperature defines the ambient capability. Site conditions, including altitude and relative humidity, will cause the ambient ...

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