

# 15mw generator air outlet temperature



## Overview

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Idling or lightly loaded generators emit exhaust in the range of 300°F to 500°F (149°C to 260°C).

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### [Ambient temperature vs. air on core \(AOC\) temperature](#)

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.

### [Generator heat hazard: don't let your exhaust turn deadly! learn the](#)

Idling or lightly loaded generators emit exhaust in the range of 300°F to 500°F (149°C to 260°C). Position the generator in a shaded area or install a fan to improve airflow and cooling.



### **GENERIC GENERATOR INSTALLATION MANUAL**

The air inlet must be capable of moving enough air through the room to provide the correct minimum CFM (cubic feet per minute) cooling for generator as specified by the generator's manufacturer. (This

### **Generator Ventilation**

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



### [High Ambient Temperature Effects on an](#)



## Engine/Generator System

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:

### **Air-cooled generator inlet temperature**

In this method of cooling, inlet air to the compressor is cooled from ambient temperature to a lower temperature by means of an "ammonia-water" vapor absorption



## The hazards of high generator air outlet temperature

This information discusses how very high ambient temperatures impact generator performance, service considerations to ensure reliability, and changes that may have to be made to existing

### **LEXE1138-01 dd**

When the ambient temperature is at the maximum 114°F (generator set ambient capability), the air temperature at the radiator core would be 148°F. Fitting an optional enclosure to a



## **GENERIC GENERATOR INSTALLATION MANUAL**

Factors such as climate and direction of prevailing winds must be considered in an outdoor installation. If your generator is expected

to be in temperatures lower than -20 o F (-29 o C) consult the generator

## Generator Enclosure Spacing

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



## WHITE PAPER

A stationary generator set system within a few hours of shutdown will be at the same ambient temperature as its surroundings. The operator should consult with the dealer for recommended

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