



Gas Turbines: Installation Sound Emissions / Inlet Air-Conditioning Equipment

Standards for Engineers Worldwide

ASME B133.8-2011

ASME PTC 51-2011

ASME B133.8 provides methods and procedures for specifying the sound emissions of gas turbine installations for industrial, pipeline, and utility applications. Included are practices for making field sound measurements and for reporting field data. This Standard may be used by owners, operators, and manufacturers of the equipment to write specifications for procurement, and to determine compliance with specifications after installation. Guidance information is included for estimating expected community reaction to noise.

ASME PTC 51 provides procedures for in-situ testing of inlet air conditioning systems (cooling/heating) as they apply to gas turbines in simple, cogeneration, and combined-cycle applications. Specifically, the procedures may be used to determine the following performance variables, as applicable to the equipment being tested:

- Performance factor
- Carryover
- Auxiliary consumption (power/thermal)
- Temperature change
- Water discharge
- Water consumption
- Distribution/stratification
- Pressure drop

ASME PTC 51 also provides procedures for results calculation, including correction of the results to reference conditions.

Together, these publications serve as essential references for industry professionals actively engaged with gas turbines.

Intended for equipment and systems test engineers; HVAC engineers; industrial, pipeline and power-plant engineers; gas-turbine manufacturers; instrument manufacturers; A/E firms; and third-party testing agencies.

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