

General Noise Specifications WTN 250 kW

IEC STANDARD ON MEASUREMENT TECHNIQUES

The sound power level is determined for an acoustic reference wind speed of 8 m/s at 10 m height. The revision of the standard focused on a reproducible tonal assessment procedure and the determination of the sound power level at each integer wind speed from 6m/s to 10 m/s at 10 m height.

Distance from the base of the turbine to the measurement equipment was 75 meters
Hub height of the turbine was 50 meters

Frequency/Hz	Sound Power/dBA
63	90.3
125	91.6
250	92.4
500	93.0
1000	88.3
2000	86.5
4000	84.1
8000	71.9
A-weighted total	98.8

*At a distance of 75 meters analysis of the noise shows there are no clearly audible tones or impulses

Wind Speed at 10m above ground	Sound Power Level/dBA
5m/s	92.8
6m/s	95.1
7m/s	97.4
8m/s	99.8
9m/s	99.9
10m/s	100.1

