



Octave sound power levels / Oktav-Schalleistungspegel

Nordex N163/6.X

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Nordex N163/6.X – Operating modes and hub heights / Betriebsweisen und Nabenhöhen

| operating mode / Betriebsweise | rated power / Nennleistung [kW] | available hub heights / verfügbare Nabenhöhen [m] | | |
|--------------------------------|---------------------------------|---|-----|-----|
| | | 138 | 159 | 164 |
| Mode 1 | 6800 | ● | ● | ● |
| Mode 2 | 6690 | ● | ● | ● |
| Mode 3 | 6530 | ● | ● | ● |
| Mode 4 | 6370 | – | ● | ● |
| Mode 5 | 6240 | – | ● | ● |
| Mode 6 | 6080 | – | – | ● |
| Mode 7 | 5940 | – | – | ○ |
| Mode 8 | 5820 | – | – | ○ |
| Mode 9 | 5270 | ○ | ○ | ○ |
| Mode 10 | 5180 | ○ | ○ | ○ |
| Mode 11 | 4810 | ● | ● | ● |
| Mode 12 | 4520 | ● | ● | ● |
| Mode 13 | 4230 | ● | ● | ● |
| Mode 14 | 3870 | ● | ● | ● |
| Mode 15 | 3620 | ● | ● | ● |
| Mode 16 | 3380 | ● | ● | ● |

- mode available / Betriebsweise verfügbar
- mode on request / Betriebsweise auf Anfrage
- mode not available / Betriebsweise nicht verfügbar

Abbreviations / Abkürzungen:

STE ... Serrated Trailing Edge / Serrations

**Octave sound power levels / Oktav-Schalleistungspegel
Nordex N163/6.X with and without / mit und ohne serrated trailing edge**

Basis / Grundlagen:

The expected octave sound power levels of the Nordex N163/6.X are to be determined on basis of aerodynamical calculations and expected sound power levels. These values are valid for 138 m, 159 m and 164 m (see available hub heights on pg. 2).

The expected octave sound power levels are only for information and will not be warranted.

Die erwarteten Oktav-Schalleistungspegel der Nordex N163/6.X werden auf der Basis aerodynamischer Berechnungen und der erwarteten Gesamt-Schalleistungspegel ermittelt. Diese Werte sind gültig für die Nabenhöhen 138 m, 159 m und 164 m (siehe verfügbare Nabenhöhen auf S. 2).

Die erwarteten Oktav-Schalleistungspegel dienen nur der Information und werden nicht gewährleistet.

Nordex N163/6.X without STE / ohne STE

| octave sound power levels / Oktav-Schallleistungspegel in dB(A) | | | | | | | | | |
|---|--|--------|--------|--------|---------|---------|---------|---------|--------------|
| operation mode / Betriebsweise | octave band mid frequency / Oktavband-Mittenfrequenz | | | | | | | | Total |
| | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | |
| Mode 1 | 93.3 | 98.5 | 101.6 | 102.8 | 102.6 | 98.4 | 88.3 | 66.8 | 108.4 |
| Mode 2 | 92.9 | 98.1 | 101.2 | 102.4 | 102.2 | 98.0 | 87.9 | 66.4 | 108.0 |
| Mode 3 | 92.4 | 97.6 | 100.7 | 101.9 | 101.7 | 97.5 | 87.4 | 65.9 | 107.5 |
| Mode 4 | 91.9 | 97.1 | 100.2 | 101.4 | 101.2 | 97.0 | 86.9 | 65.4 | 107.0 |
| Mode 5 | 91.4 | 96.6 | 99.7 | 100.9 | 100.7 | 96.5 | 86.4 | 64.9 | 106.5 |
| Mode 6 | 90.9 | 96.1 | 99.2 | 100.4 | 100.2 | 96.0 | 85.9 | 64.4 | 106.0 |
| Mode 7 | 90.4 | 95.6 | 98.7 | 99.9 | 99.7 | 95.5 | 85.4 | 63.9 | 105.5 |
| Mode 8 | 89.9 | 95.1 | 98.2 | 99.4 | 99.2 | 95.0 | 84.9 | 63.4 | 105.0 |
| Mode 9 | 87.9 | 93.1 | 96.2 | 97.4 | 97.2 | 93.0 | 82.9 | 61.4 | 103.0 |
| Mode 10 | 87.4 | 92.6 | 95.7 | 96.9 | 96.7 | 92.5 | 82.4 | 60.9 | 102.5 |
| Mode 11 | 86.9 | 92.1 | 95.2 | 96.4 | 96.2 | 92.0 | 81.9 | 60.4 | 102.0 |
| Mode 12 | 86.4 | 91.6 | 94.7 | 95.9 | 95.7 | 91.5 | 81.4 | 59.9 | 101.5 |
| Mode 13 | 85.9 | 91.1 | 94.2 | 95.4 | 95.2 | 91.0 | 80.9 | 59.4 | 101.0 |
| Mode 14 | 85.4 | 90.6 | 93.7 | 94.9 | 94.7 | 90.5 | 80.4 | 58.9 | 100.5 |
| Mode 15 | 84.9 | 90.1 | 93.2 | 94.4 | 94.2 | 90.0 | 79.9 | 58.4 | 100.0 |
| Mode 16 | 84.4 | 89.6 | 92.7 | 93.9 | 93.7 | 89.5 | 79.4 | 57.9 | 99.5 |

Nordex N163/6.X with STE / mit STE

| octave sound power levels / Oktav-Schallleistungspegel in dB(A) | | | | | | | | | |
|---|--|--------|--------|--------|---------|---------|---------|---------|--------------|
| operation mode / Betriebsweise | octave band mid frequency / Oktavband-Mittenfrequenz | | | | | | | | Total |
| | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | |
| Mode 1 | 92.8 | 96.6 | 99.5 | 100.6 | 100.5 | 96.5 | 86.4 | 64.8 | 106.4 |
| Mode 2 | 92.4 | 96.2 | 99.1 | 100.2 | 100.1 | 96.1 | 86.0 | 64.4 | 106.0 |
| Mode 3 | 91.9 | 95.7 | 98.6 | 99.7 | 99.6 | 95.6 | 85.5 | 63.9 | 105.5 |
| Mode 4 | 91.4 | 95.2 | 98.1 | 99.2 | 99.1 | 95.1 | 85.0 | 63.4 | 105.0 |
| Mode 5 | 90.9 | 94.7 | 97.6 | 98.7 | 98.6 | 94.6 | 84.5 | 62.9 | 104.5 |
| Mode 6 | 90.4 | 94.2 | 97.1 | 98.2 | 98.1 | 94.1 | 84.0 | 62.4 | 104.0 |
| Mode 7 | 89.9 | 93.7 | 96.6 | 97.7 | 97.6 | 93.6 | 83.5 | 61.9 | 103.5 |
| Mode 8 | 89.4 | 93.2 | 96.1 | 97.2 | 97.1 | 93.1 | 83.0 | 61.4 | 103.0 |
| Mode 9 | 87.4 | 91.2 | 94.1 | 95.2 | 95.1 | 91.1 | 81.0 | 59.4 | 101.0 |
| Mode 10 | 86.9 | 90.7 | 93.6 | 94.7 | 94.6 | 90.6 | 80.5 | 58.9 | 100.5 |
| Mode 11 | 86.4 | 90.2 | 93.1 | 94.2 | 94.1 | 90.1 | 80.0 | 58.4 | 100.0 |
| Mode 12 | 85.9 | 89.7 | 92.6 | 93.7 | 93.6 | 89.6 | 79.5 | 57.9 | 99.5 |
| Mode 13 | 85.4 | 89.2 | 92.1 | 93.2 | 93.1 | 89.1 | 79.0 | 57.4 | 99.0 |
| Mode 14 | 84.9 | 88.7 | 91.6 | 92.7 | 92.6 | 88.6 | 78.5 | 56.9 | 98.5 |
| Mode 15 | 84.4 | 88.2 | 91.1 | 92.2 | 92.1 | 88.1 | 78.0 | 56.4 | 98.0 |
| Mode 16 | 83.9 | 87.7 | 90.6 | 91.7 | 91.6 | 87.6 | 77.5 | 55.9 | 97.5 |