



Octave sound power levels / Oktav-Schallleistungspegel

Nordex N149/5.X

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Nordex N149/5.X – Operating modes and hub heights / Betriebsweisen und Nabenhöhen

| operating mode / Betriebsweise | rated power / Nennleistung [kW] | available hub heights / verfügbare Nabenhöhen [m] | | | | | |
|-----------------------------------|------------------------------------|--|-----|-----|-----|-----|-----|
| | | 105 | 120 | 125 | 145 | 155 | 164 |
| Mode 0 | 5700 | ● | ● | ● | ● | ● | ● |
| Mode 1 | 5600 | ● | ● | ● | ● | ● | ● |
| Mode 2 | 5500 | ● | ● | ● | ● | ● | ● |
| Mode 3 | 5400 | ● | ● | ○ | ● | ● | ● |
| Mode 4 | 5300 | ● | ● | ○ | ● | ● | ● |
| Mode 5 | 5180 | ● | ● | ○ | ● | ● | ● |
| Mode 6 | 5060 | ● | ● | ○ | – | ● | ● |
| Mode 7 | 4950 | ● | ● | ○ | – | – | ● |
| Mode 8 | 4830 | ○ | ○ | ○ | – | – | ○ |
| Mode 9 | 4720 | ○ | ○ | ○ | – | – | ○ |
| Mode 10 | 4290 | ○ | ○ | ○ | ○ | ○ | ○ |
| Mode 11 | 4200 | ○ | ○ | ○ | ○ | ○ | ○ |
| Mode 12 | 4110 | ● | ● | ● | ● | ● | ● |
| Mode 13 | 4010 | ● | ● | ● | ● | ● | ● |
| Mode 14 | 3920 | ● | ● | ● | ● | ● | ● |
| Mode 15 | 3770 | ● | – | ● | ● | ● | ● |
| Mode 16 | 3440 | ● | – | ● | ● | ● | ● |
| Mode 17 | 3200 | ● | – | ● | ● | ● | ● |
| Mode 18 | 2960 | ● | – | ● | ● | ● | ● |

- 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-Schallleistungspegel
Nordex N149/5.X with and without / mit und ohne serrated trailing edge

Basis / Grundlagen:

The expected octave sound power levels of the Nordex N149/5.X are to be determined on basis of aerodynamical calculations and expected sound power levels. These values are valid for 105 m, 120 m, 125 m, 145 m, 155 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-Schallleistungspegel der Nordex N149/5.X werden auf der Basis aerodynamischer Berechnungen und der erwarteten Gesamt-Schallleistungspegel ermittelt. Diese Werte sind gültig für die Nabenhöhen 105 m, 120 m, 125 m, 145 m, 155 m und 164 m (siehe verfügbare Nabenhöhen auf S. 2). Die erwarteten Oktav-Schallleistungspegel dienen nur der Information und werden nicht gewährleistet.

Nordex N149/5.X without STE / ohne STE

| octave sound power levels / Oktav-Schallleistungspegel in dB(A) | | | | | | | | | |
|---|--|--------|--------|--------|---------|---------|---------|---------|-------|
| operation mode / Betriebsweise | octave band mid frequency / Oktavband-Mittenfrequenz | | | | | | | | |
| | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| Mode 0 | 87.9 | 94.1 | 98.3 | 101.6 | 103.0 | 100.6 | 91.8 | 83.0 | 107.6 |
| Mode 1 | 87.5 | 93.7 | 97.9 | 101.2 | 102.6 | 100.2 | 91.4 | 82.6 | 107.2 |
| Mode 2 | 87.1 | 93.3 | 97.5 | 100.8 | 102.2 | 99.8 | 91.0 | 82.2 | 106.8 |
| Mode 3 | 86.7 | 92.9 | 97.1 | 100.4 | 101.8 | 99.4 | 90.6 | 81.8 | 106.4 |
| Mode 4 | 86.3 | 92.5 | 96.7 | 100.0 | 101.4 | 99.0 | 90.2 | 81.4 | 106.0 |
| Mode 5 | 85.8 | 92.0 | 96.2 | 99.5 | 100.9 | 98.5 | 89.7 | 80.9 | 105.5 |
| Mode 6 | 85.3 | 91.5 | 95.7 | 99.0 | 100.4 | 98.0 | 89.2 | 80.4 | 105.0 |
| Mode 7 | 84.8 | 91.0 | 95.2 | 98.5 | 99.9 | 97.5 | 88.7 | 79.9 | 104.5 |
| Mode 8 | 84.3 | 90.5 | 94.7 | 98.0 | 99.4 | 97.0 | 88.2 | 79.4 | 104.0 |
| Mode 9 | 83.8 | 90.0 | 94.2 | 97.5 | 98.9 | 96.5 | 87.7 | 78.9 | 103.5 |
| Mode 10 | 81.8 | 88.0 | 92.2 | 95.5 | 96.9 | 94.5 | 85.7 | 76.9 | 101.5 |
| Mode 11 | 81.3 | 87.5 | 91.7 | 95.0 | 96.4 | 94.0 | 85.2 | 76.4 | 101.0 |
| Mode 12 | 80.8 | 87.0 | 91.2 | 94.5 | 95.9 | 93.5 | 84.7 | 75.9 | 100.5 |
| Mode 13 | 80.3 | 86.5 | 90.7 | 94.0 | 95.4 | 93.0 | 84.2 | 75.4 | 100.0 |
| Mode 14 | 79.8 | 86.0 | 90.2 | 93.5 | 94.9 | 92.5 | 83.7 | 74.9 | 99.5 |
| Mode 15 | 79.3 | 85.5 | 89.7 | 93.0 | 94.4 | 92.0 | 83.2 | 74.4 | 99.0 |
| Mode 16 | 78.8 | 85.0 | 89.2 | 92.5 | 93.9 | 91.5 | 82.7 | 73.9 | 98.5 |
| Mode 17 | 78.3 | 84.5 | 88.7 | 92.0 | 93.4 | 91.0 | 82.2 | 73.4 | 98.0 |
| Mode 18 | 77.8 | 84.0 | 88.2 | 91.5 | 92.9 | 90.5 | 81.7 | 72.9 | 97.5 |

Nordex N149/5.X with STE / mit STE

| octave sound power levels / Oktav-Schallleistungspegel in dB(A) | | | | | | | | | |
|---|--|--------|--------|--------|---------|---------|---------|---------|-------|
| operation mode / Betriebsweise | octave band mid frequency / Oktavband-Mittenfrequenz | | | | | | | | |
| | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| Mode 0 | 87.3 | 93.5 | 97.2 | 99.8 | 100.5 | 98.0 | 90.4 | 82.4 | 105.6 |
| Mode 1 | 86.9 | 93.1 | 96.8 | 99.4 | 100.1 | 97.6 | 90.0 | 82.0 | 105.2 |
| Mode 2 | 86.5 | 92.7 | 96.4 | 99.0 | 99.7 | 97.2 | 89.6 | 81.6 | 104.8 |
| Mode 3 | 86.1 | 92.3 | 96.0 | 98.6 | 99.3 | 96.8 | 89.2 | 81.2 | 104.4 |
| Mode 4 | 85.7 | 91.9 | 95.6 | 98.2 | 98.9 | 96.4 | 88.8 | 80.8 | 104.0 |
| Mode 5 | 85.2 | 91.4 | 95.1 | 97.7 | 98.4 | 95.9 | 88.3 | 80.3 | 103.5 |
| Mode 6 | 84.7 | 90.9 | 94.6 | 97.2 | 97.9 | 95.4 | 87.8 | 79.8 | 103.0 |
| Mode 7 | 84.2 | 90.4 | 94.1 | 96.7 | 97.4 | 94.9 | 87.3 | 79.3 | 102.5 |
| Mode 8 | 83.7 | 89.9 | 93.6 | 96.2 | 96.9 | 94.4 | 86.8 | 78.8 | 102.0 |
| Mode 9 | 83.2 | 89.4 | 93.1 | 95.7 | 96.4 | 93.9 | 86.3 | 78.3 | 101.5 |
| Mode 10 | 81.2 | 87.4 | 91.1 | 93.7 | 94.4 | 91.9 | 84.3 | 76.3 | 99.5 |
| Mode 11 | 80.7 | 86.9 | 90.6 | 93.2 | 93.9 | 91.4 | 83.8 | 75.8 | 99.0 |
| Mode 12 | 80.2 | 86.4 | 90.1 | 92.7 | 93.4 | 90.9 | 83.3 | 75.3 | 98.5 |
| Mode 13 | 79.7 | 85.9 | 89.6 | 92.2 | 92.9 | 90.4 | 82.8 | 74.8 | 98.0 |
| Mode 14 | 79.2 | 85.4 | 89.1 | 91.7 | 92.4 | 89.9 | 82.3 | 74.3 | 97.5 |
| Mode 15 | 78.7 | 84.9 | 88.6 | 91.2 | 91.9 | 89.4 | 81.8 | 73.8 | 97.0 |
| Mode 16 | 78.2 | 84.4 | 88.1 | 90.7 | 91.4 | 88.9 | 81.3 | 73.3 | 96.5 |
| Mode 17 | 77.7 | 83.9 | 87.6 | 90.2 | 90.9 | 88.4 | 80.8 | 72.8 | 96.0 |
| Mode 18 | 77.2 | 83.4 | 87.1 | 89.7 | 90.4 | 87.9 | 80.3 | 72.3 | 95.5 |