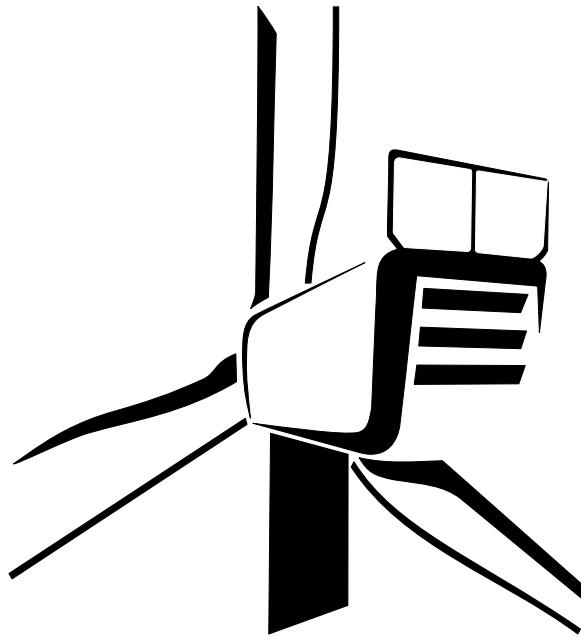
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Octave sound power levels / Oktav-Schalleistungspegel

Nordex N163/5.X

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Nordex N163/5.X – Operating modes and hub heights / Betriebsweisen und Nabenhöhen

operating mode / Betriebsweise	rated power / Nennleistung [kW]	available hub heights / verfügbare Nabenhöhen [m]								
		98	102	108	118	120	148	159	164	168
Mode 0	5700	●	●	●	●	●	●	●	●	●
Mode 1	5600	●	●	●	●	●	●	●	●	●
Mode 2	5500	●	●	●	●	●	●	●	●	●
Mode 3	5400	●	●	●	●	●	●	●	●	●
Mode 4	5270	●	●	●	●	●	●	●	●	●
Mode 5	5150	●	●	●	●	●	●	●	●	●
Mode 6	5040	●	●	●	●	●	–	●	●	●
Mode 7	4930	●	●	●	●	●	–	●	●	●
Mode 8	4810	○	○	○	○	○	–	–	○	○
Mode 9	4700	○	○	○	○	○	–	–	○	○
Mode 10	4290	○	○	○	○	○	○	○	○	○
Mode 11	4170	○	○	○	○	○	○	○	○	○
Mode 12	3990	●	●	●	●	●	●	●	●	●
Mode 13	3700	●	●	●	●	●	●	●	●	●
Mode 14	3450	●	●	●	●	–	●	●	●	●
Mode 15	3200	●	●	●	●	–	●	●	●	●
Mode 16	2980	●	●	●	●	–	●	●	●	●
Mode 17	2800	●	●	●	●	–	●	●	●	●
Mode 18	2580	●	●	●	●	–	●	●	●	●

- 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 N163/5.X with and without / mit und ohne serrated trailing edge

Basis / Grundlagen:

The expected octave sound power levels of the Nordex N163/5.X are to be determined on basis of aerodynamical calculations and expected sound power levels. These values are valid for 98 m, 102 m, 108 m, 118 m, 120 m, 148 m, 159 m, 164 m and 168 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 N163/5.X werden auf der Basis aerodynamischer Berechnungen und der erwarteten Gesamt-Schalleistungspegel ermittelt. Diese Werte sind gültig für die Nabenhöhen 98 m, 102 m, 108 m, 118 m, 120 m, 148 m, 159 m, 164 m und 168 m (siehe verfügbare Nabenhöhen auf S. 2).

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

Nordex N163/5.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	89.5	95.7	99.9	103.2	104.6	102.2	93.4	84.6	109.2
Mode 1	89.1	95.3	99.5	102.8	104.2	101.8	93.0	84.2	108.8
Mode 2	88.7	94.9	99.1	102.4	103.8	101.4	92.6	83.8	108.4
Mode 3	88.3	94.5	98.7	102.0	103.4	101.0	92.2	83.4	108.0
Mode 4	87.8	94.0	98.2	101.5	102.9	100.5	91.7	82.9	107.5
Mode 5	87.3	93.5	97.7	101.0	102.4	100.0	91.2	82.4	107.0
Mode 6	86.8	93.0	97.2	100.5	101.9	99.5	90.7	81.9	106.5
Mode 7	86.3	92.5	96.7	100.0	101.4	99.0	90.2	81.4	106.0
Mode 8	85.8	92.0	96.2	99.5	100.9	98.5	89.7	80.9	105.5
Mode 9	85.3	91.5	95.7	99.0	100.4	98.0	89.2	80.4	105.0
Mode 10	83.3	89.5	93.7	97.0	98.4	96.0	87.2	78.4	103.0
Mode 11	82.8	89.0	93.2	96.5	97.9	95.5	86.7	77.9	102.5
Mode 12	82.3	88.5	92.7	96.0	97.4	95.0	86.2	77.4	102.0
Mode 13	81.8	88.0	92.2	95.5	96.9	94.5	85.7	76.9	101.5
Mode 14	81.3	87.5	91.7	95.0	96.4	94.0	85.2	76.4	101.0
Mode 15	80.8	87.0	91.2	94.5	95.9	93.5	84.7	75.9	100.5
Mode 16	80.3	86.5	90.7	94.0	95.4	93.0	84.2	75.4	100.0
Mode 17	79.8	86.0	90.2	93.5	94.9	92.5	83.7	74.9	99.5
Mode 18	79.3	85.5	89.7	93.0	94.4	92.0	83.2	74.4	99.0

Nordex N163/5.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	88.9	95.1	98.8	101.4	102.1	99.6	92.0	84.0	107.2
Mode 1	88.5	94.7	98.4	101.0	101.7	99.2	91.6	83.6	106.8
Mode 2	88.1	94.3	98.0	100.6	101.3	98.8	91.2	83.2	106.4
Mode 3	87.7	93.9	97.6	100.2	100.9	98.4	90.8	82.8	106.0
Mode 4	87.2	93.4	97.1	99.7	100.4	97.9	90.3	82.3	105.5
Mode 5	86.7	92.9	96.6	99.2	99.9	97.4	89.8	81.8	105.0
Mode 6	86.2	92.4	96.1	98.7	99.4	96.9	89.3	81.3	104.5
Mode 7	85.7	91.9	95.6	98.2	98.9	96.4	88.8	80.8	104.0
Mode 8	85.2	91.4	95.1	97.7	98.4	95.9	88.3	80.3	103.5
Mode 9	84.7	90.9	94.6	97.2	97.9	95.4	87.8	79.8	103.0
Mode 10	82.7	88.9	92.6	95.2	95.9	93.4	85.8	77.8	101.0
Mode 11	82.2	88.4	92.1	94.7	95.4	92.9	85.3	77.3	100.5
Mode 12	81.7	87.9	91.6	94.2	94.9	92.4	84.8	76.8	100.0
Mode 13	81.2	87.4	91.1	93.7	94.4	91.9	84.3	76.3	99.5
Mode 14	80.7	86.9	90.6	93.2	93.9	91.4	83.8	75.8	99.0
Mode 15	80.2	86.4	90.1	92.7	93.4	90.9	83.3	75.3	98.5
Mode 16	79.7	85.9	89.6	92.2	92.9	90.4	82.8	74.8	98.0
Mode 17	79.2	85.4	89.1	91.7	92.4	89.9	82.3	74.3	97.5
Mode 18	78.7	84.9	88.6	91.2	91.9	89.4	81.8	73.8	97.0