

Performance certified is for installation type B - free inlet, ducted outlet.
 Power rating (kW) does not include transmission losses.
 Performance ratings do not include the effects of appurtenances (accessories).

Technical Data

Impeller Data

| | | |
|-------------------|-------|----------------------|
| Impeller diameter | D_r | 510 mm |
| Number of blades | z | 12 |
| Moment of Inertia | J | 0.9 kgm ² |

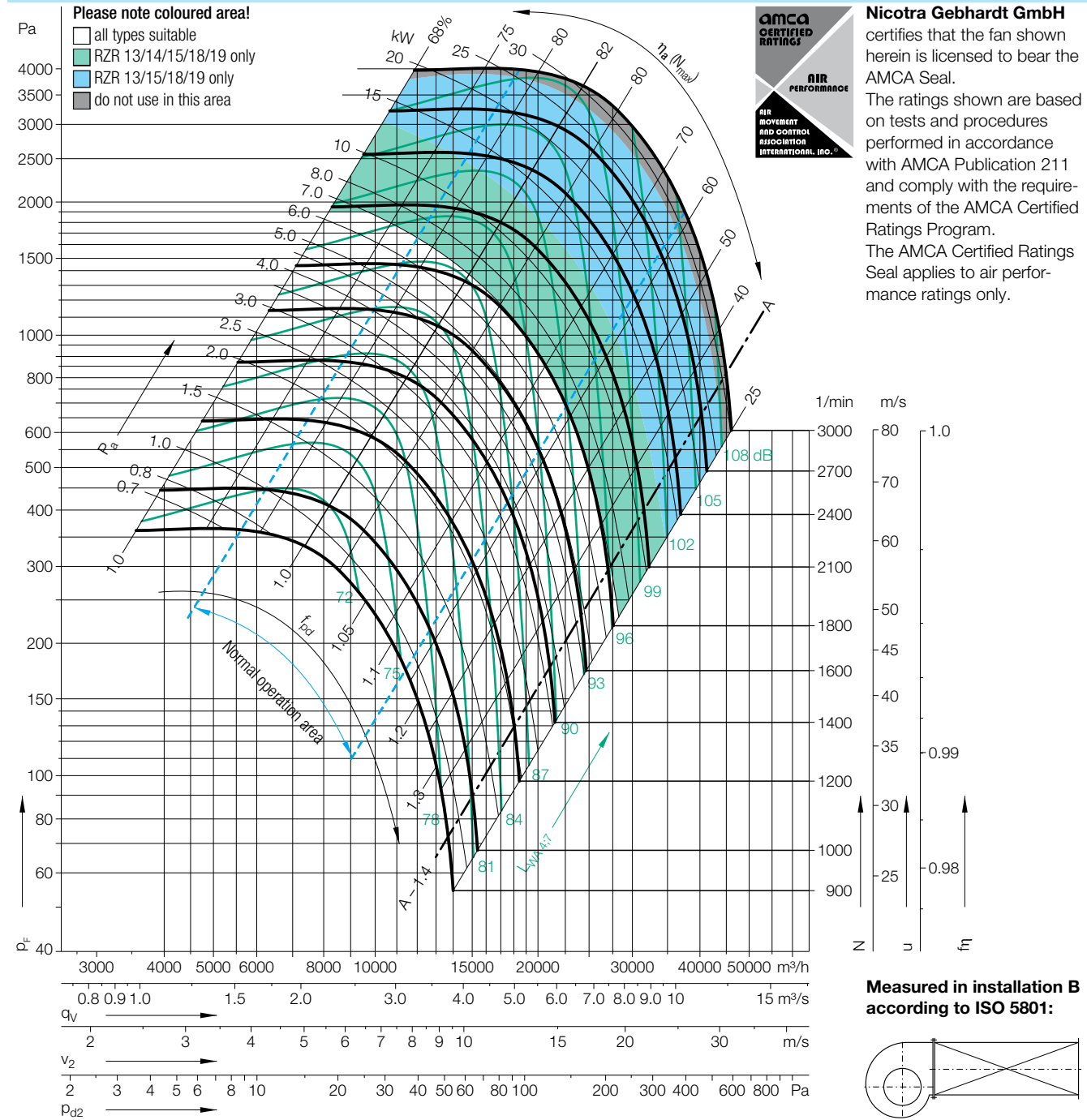
Impeller Data

| | | |
|-----------------------------|----------|-----------------------|
| Impeller weight | m | 19.9 kg |
| Density of media | ρ_1 | 1.2 kg/m ³ |
| Tolerance class (DIN 24166) | | 1 |

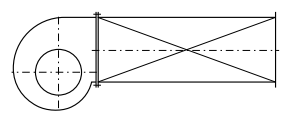
Speed limits N_{max} for ATEX execution

| | | |
|-----------|-------------|-------|
| RZR 11/12 | 1752 | 1/min |
| RZR 18 | 2000 | 1/min |
| RZR 13 | 2534 | 1/min |

Performance Curves



Measured in installation B according to ISO 5801:



Relative sound power level for inlet side L_{Wrel7} at octave centre frequencies f_c

| Speed | Duty point | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|-------------|---------------------|-----|-----|-----|-----|------|------|------|------|----|
| ≤1498 1/min | ≤0.8 Q_{Vopt} | 0 | 2 | 0 | -3 | -6 | -9 | -12 | -19 | dB |
| | >0.8-1.2 Q_{Vopt} | -2 | 1 | -2 | -3 | -6 | -8 | -14 | -20 | dB |
| | >1.2-1.6 Q_{Vopt} | -3 | 0 | -1 | -3 | -6 | -8 | -14 | -21 | dB |
| | >1.6-2.0 Q_{Vopt} | -5 | -3 | -3 | -3 | -6 | -7 | -13 | -21 | dB |
| | >2.0 Q_{Vopt} | -5 | -3 | -3 | -3 | -6 | -7 | -13 | -21 | dB |
| >1498 1/min | ≤0.8 Q_{Vopt} | -2 | -1 | -3 | -1 | -6 | -10 | -15 | -21 | dB |
| | >0.8-1.2 Q_{Vopt} | -7 | -4 | -5 | -1 | -6 | -9 | -14 | -21 | dB |
| | >1.2-1.6 Q_{Vopt} | -10 | -7 | -8 | -1 | -5 | -8 | -13 | -21 | dB |
| | >1.6-2.0 Q_{Vopt} | -10 | -8 | -8 | -2 | -6 | -8 | -11 | -18 | dB |
| | >2.0 Q_{Vopt} | -10 | -8 | -8 | -2 | -6 | -8 | -11 | -18 | dB |

Relative sound power level for discharge side L_{Wrel4} at octave centre frequencies f_c

| Speed | Duty point | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|-------------|---------------------|----|-----|-----|-----|------|------|------|------|----|
| ≤1498 1/min | ≤0.8 Q_{Vopt} | 13 | 7 | 4 | -3 | -8 | -14 | -17 | -25 | dB |
| | >0.8-1.2 Q_{Vopt} | 10 | 5 | 3 | -2 | -7 | -13 | -17 | -25 | dB |
| | >1.2-1.6 Q_{Vopt} | 7 | 2 | 2 | -2 | -6 | -12 | -18 | -27 | dB |
| | >1.6-2.0 Q_{Vopt} | 5 | 1 | 1 | -2 | -6 | -10 | -17 | -27 | dB |
| | >2.0 Q_{Vopt} | 5 | 1 | 1 | -2 | -6 | -10 | -17 | -27 | dB |
| >1498 1/min | ≤0.8 Q_{Vopt} | 11 | 4 | 2 | 0 | -7 | -12 | -17 | -24 | dB |
| | >0.8-1.2 Q_{Vopt} | 7 | 1 | -2 | -3 | -6 | -10 | -15 | -23 | dB |
| | >1.2-1.6 Q_{Vopt} | 3 | -2 | -4 | -3 | -5 | -9 | -14 | -23 | dB |
| | >1.6-2.0 Q_{Vopt} | 2 | -3 | -5 | -3 | -5 | -9 | -12 | -21 | dB |
| | >2.0 Q_{Vopt} | 2 | -3 | -5 | -3 | -5 | -9 | -12 | -21 | dB |