

RZR _-1400

Technical Data

Impeller Data

Impeller diameter	D_r	1400 mm
Number of blades	z	12
Moment of Inertia	J	120 kgm ²

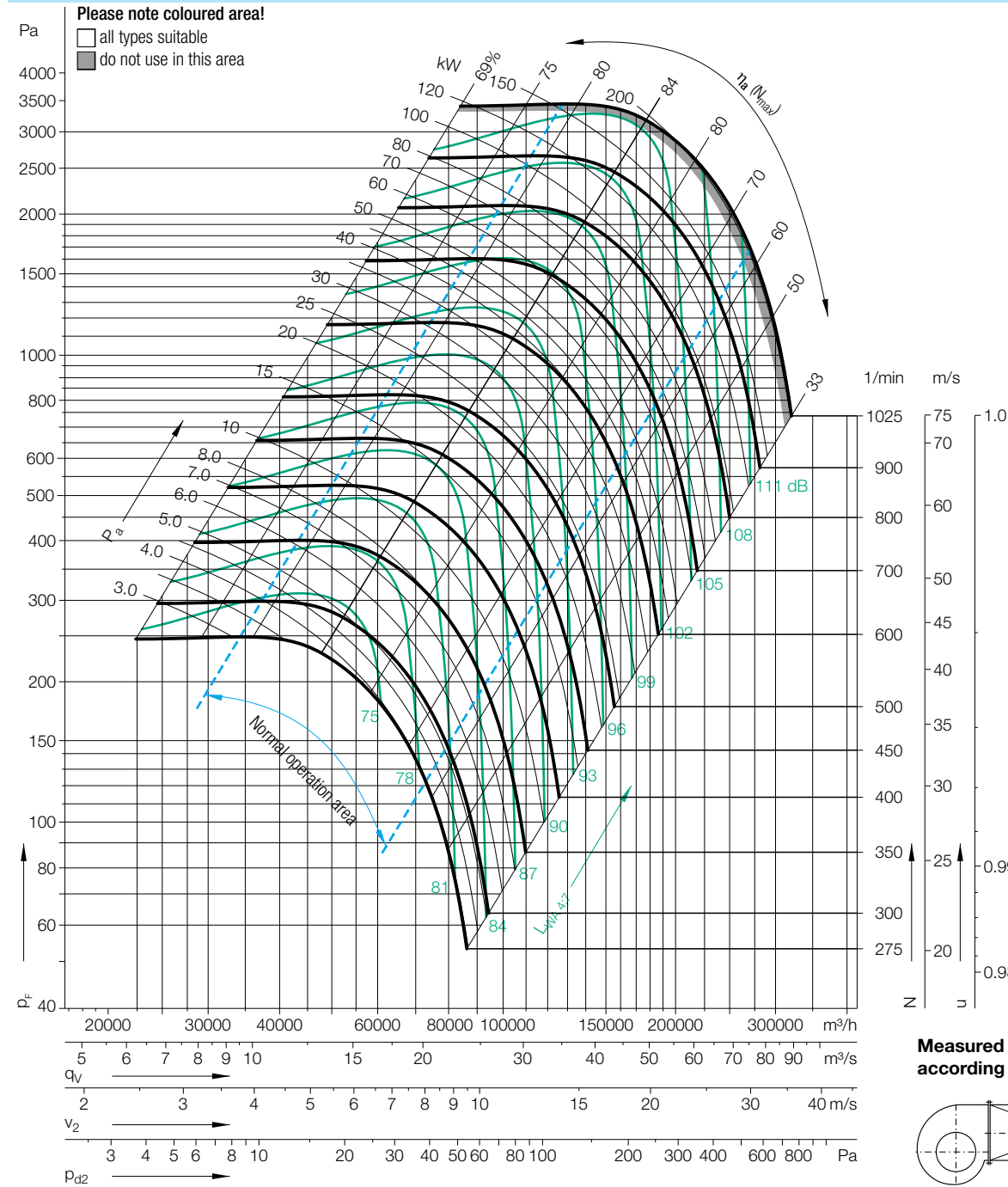
Impeller Data

Impeller weight	m	335 kg
Density of media	ρ_1	1.2 kg/m ³
Tolerance class (DIN 24166)		1

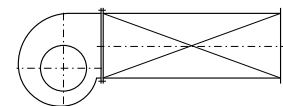
Speed limits N_{max} for ATEX execution

RZR 13	870 1/min
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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
≤546 1/min	≤0.8 q_{Vopt}	0	3	1	-2	-6	-9	-13	-20	dB
	>0.8-1.2 q_{Vopt}	-1	2	1	-2	-6	-9	-14	-21	dB
	>1.2-1.6 q_{Vopt}	-2	1	1	-3	-5	-8	-15	-21	dB
	>1.6 q_{Vopt}	-5	-3	-2	-3	-5	-7	-14	-21	dB
	>1.6 q_{Vopt}	-5	-3	-2	-3	-5	-7	-14	-21	dB
>546 1/min	≤0.8 q_{Vopt}	-1	-1	-3	-2	-7	-11	-16	-21	dB
	>0.8-1.2 q_{Vopt}	-6	-4	-6	-2	-7	-10	-15	-21	dB
	>1.2-1.6 q_{Vopt}	-10	-7	-8	-3	-6	-9	-14	-21	dB
	>1.6 q_{Vopt}	-10	-7	-8	-3	-6	-8	-11	-20	dB
	>1.6 q_{Vopt}	-10	-7	-8	-3	-6	-8	-11	-20	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
≤546 1/min	≤0.8 q_{Vopt}	12	7	4	-3	-8	-14	-18	-26	dB
	>0.8-1.2 q_{Vopt}	10	5	3	-3	-8	-14	-19	-28	dB
	>1.2-1.6 q_{Vopt}	7	2	3	-3	-6	-13	-20	-28	dB
	>1.6 q_{Vopt}	4	1	2	-3	-6	-12	-19	-28	dB
	>1.6 q_{Vopt}	4	1	2	-3	-6	-12	-19	-28	dB
>546 1/min	≤0.8 q_{Vopt}	10	4	1	-1	-7	-13	-18	-25	dB
	>0.8-1.2 q_{Vopt}	6	2	-2	-3	-6	-12	-15	-25	dB
	>1.2-1.6 q_{Vopt}	2	-3	-3	-3	-6	-11	-15	-25	dB
	>1.6 q_{Vopt}	1	-3	-5	-3	-6	-11	-13	-22	dB
	>1.6 q_{Vopt}	1	-3	-5	-3	-6	-11	-13	-22	dB