

Technical Data

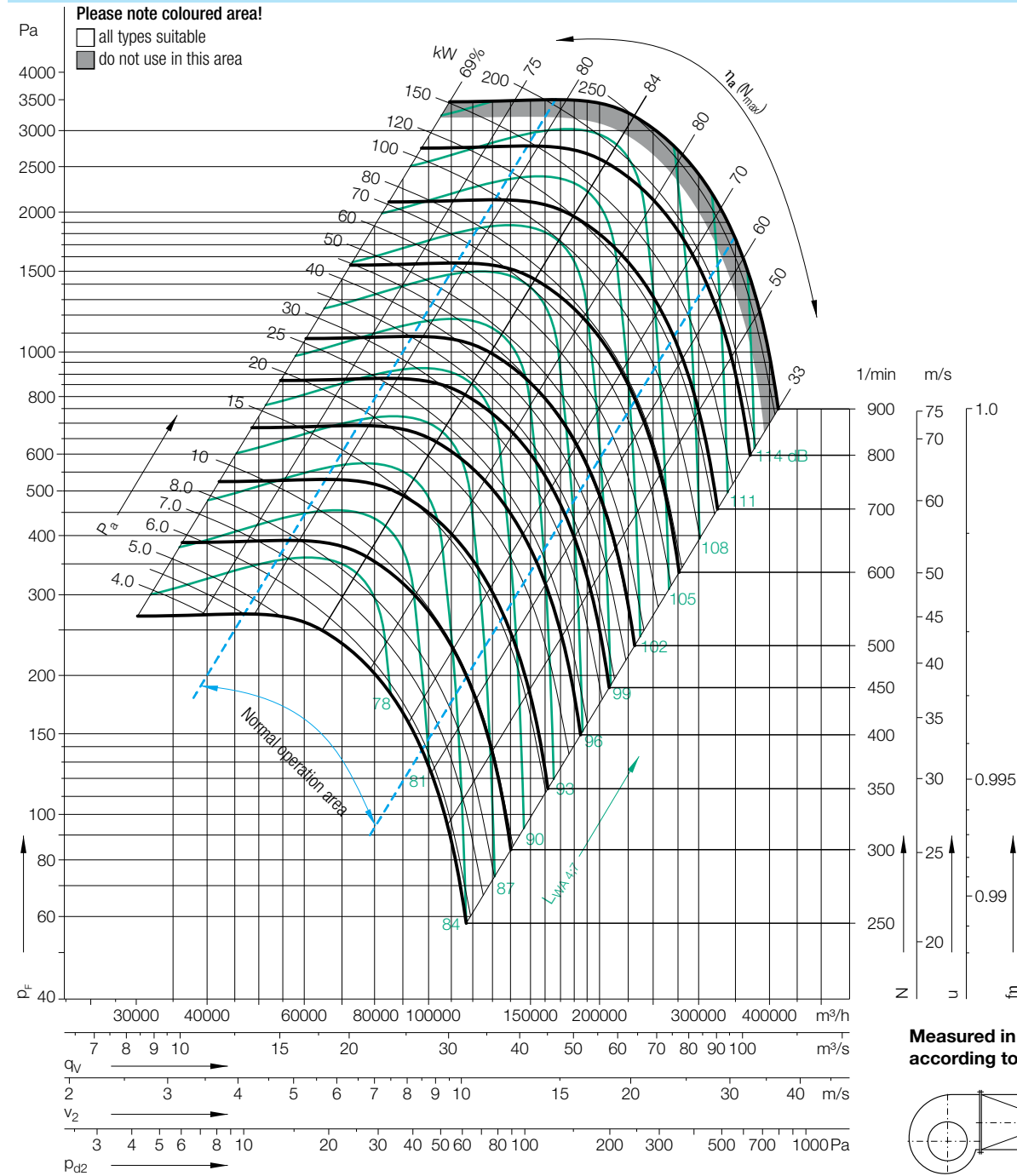
Impeller Data	
Impeller diameter	D_r 1600 mm
Number of blades	z 12
Moment of Inertia	J 186 kgm ²

Impeller Data	
Impeller weight	m 486 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	748 1/min
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Performance Curves



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
≤ 478 1/min	$\leq 0.8 q_{Vopt}$	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
	$> 1.6-2.0 q_{Vopt}$	-5	-3	-2	-3	-5	-7	-14	-21	dB
	$> 2.0 q_{Vopt}$	-5	-3	-2	-3	-5	-7	-14	-21	dB
> 478 1/min	$\leq 0.8 q_{Vopt}$	-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
	$> 1.6-2.0 q_{Vopt}$	-10	-7	-8	-3	-6	-9	-14	-21	dB
	$> 2.0 q_{Vopt}$	-10	-7	-8	-3	-6	-9	-14	-21	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
≤ 478 1/min	$\leq 0.8 q_{Vopt}$	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
	$> 1.6-2.0 q_{Vopt}$	4	1	2	-3	-6	-12	-19	-28	dB
	$> 2.0 q_{Vopt}$	4	1	2	-3	-6	-12	-19	-28	dB
> 478 1/min	$\leq 0.8 q_{Vopt}$	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
	$> 1.6-2.0 q_{Vopt}$	1	-3	-5	-3	-6	-11	-13	-22	dB
	$> 2.0 q_{Vopt}$	1	-3	-5	-3	-6	-11	-13	-22	dB