

RZR _-0450

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**

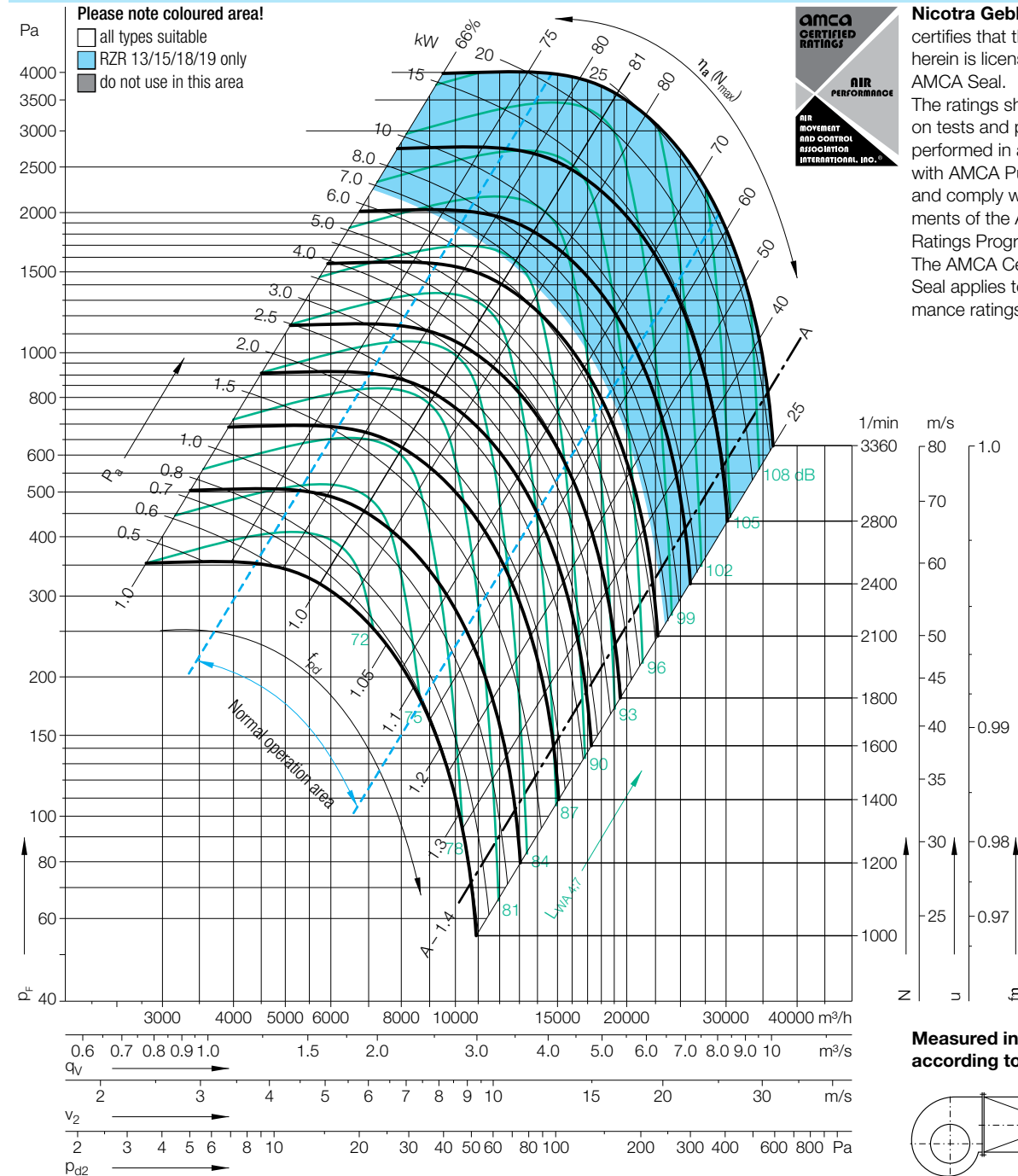
Impeller diameter	D_r	455 mm
Number of blades	z	12
Moment of Inertia	J	0.6 kgm ²

Impeller Data

Impeller weight	m	15.8 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	2111	1/min
RZR 18	2410	1/min
RZR 13	2922	1/min

Performance Curves**Nicotra Gebhardt GmbH**

certifies that the fan shown herein is licensed to bear the AMCA Seal.

The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

The AMCA Certified Ratings Seal applies to air performance ratings only.

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
≤1679 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 q_{Vopt}	-5	-3	-3	-3	-6	-7	-13	-21	dB
Speed	Duty point	63	125	250	500	1000	2000	4000	8000	Hz
>1679 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 q_{Vopt}	-10	-8	-8	-2	-6	-8	-11	-18	dB

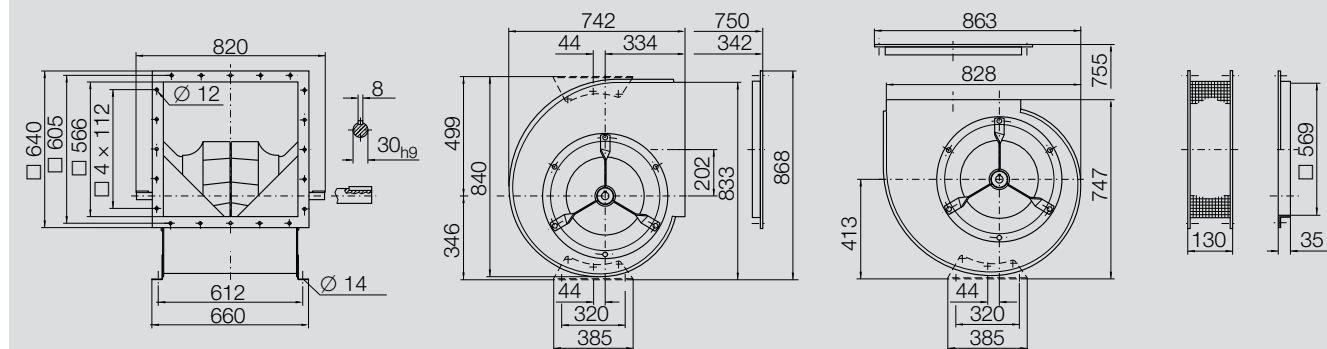
Relative sound power level for discharge side L_{Wrel4} at octave centre frequencies f_c

63	125	250	500	1000	2000	4000	8000	Hz
13	7	4	-3	-8	-14	-17	-25	dB
10	5	3	-2	-7	-13	-17	-25	dB
7	2	2	-2	-6	-12	-18	-27	dB
5	1	1	-2	-6	-10	-17	-27	dB
63	125	250	500	1000	2000	4000	8000	Hz
11	4	2	0	-7	-12	-17	-24	dB
7	1	-2	-3	-6	-10	-15	-23	dB
3	-2	-4	-3	-5	-9	-14	-23	dB
2	-3	-5	-3	-5	-9	-12	-21	dB

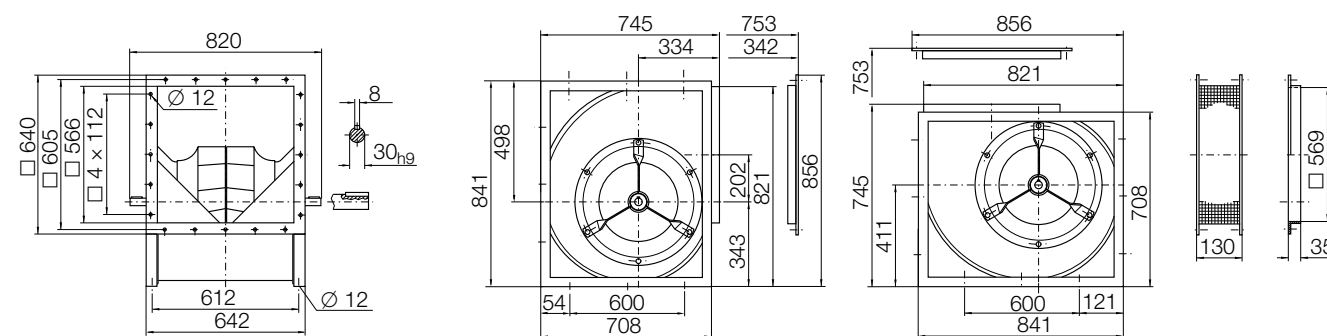
RZR _-0450

Dimensions in mm, subject to change.

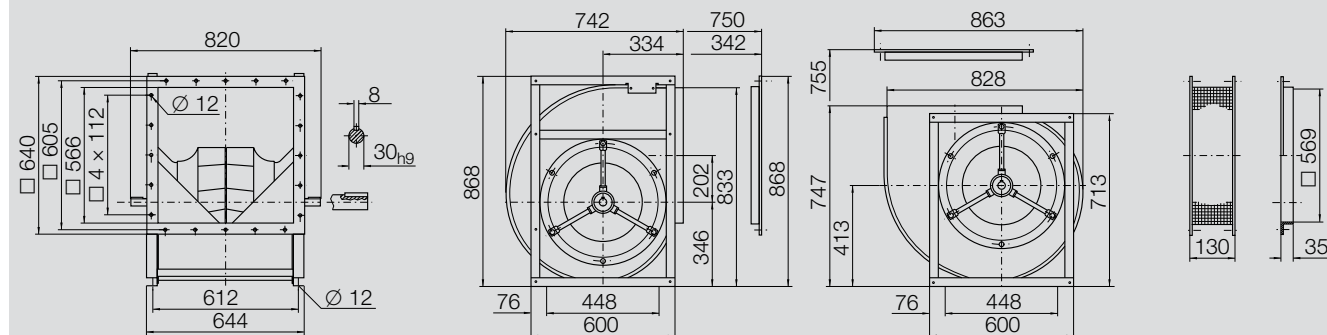
RZR 11-0450 54 kg



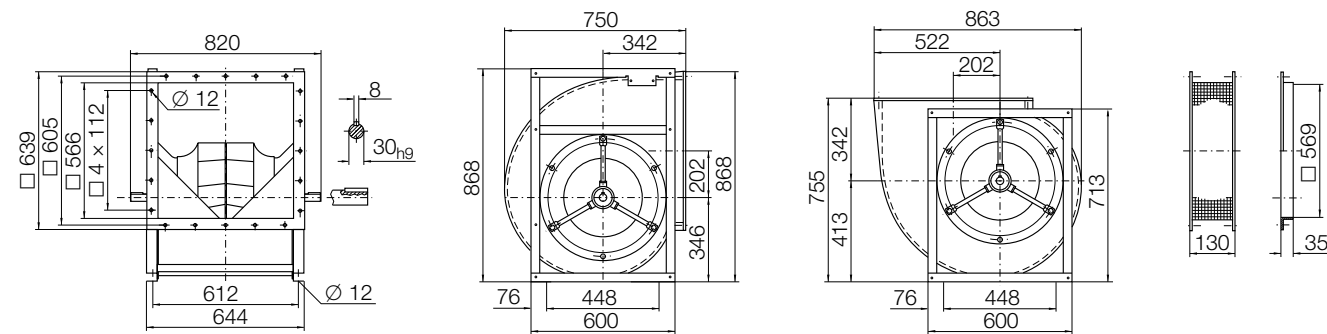
RZR 12-0450 60 kg



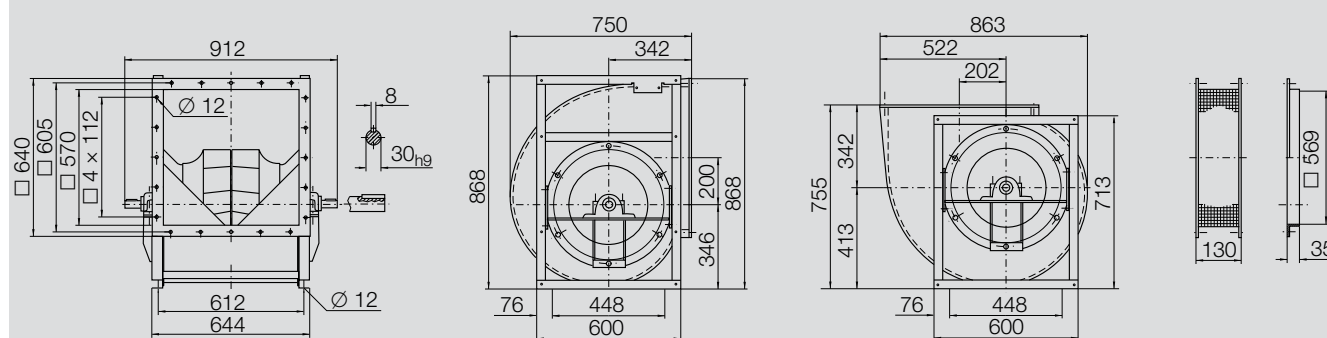
RZR 15-0450 73 kg



RZR 19-0450 82 kg



RZR 18-0450 83 kg **RZR 13-0450** 92 kg



RZR -0500

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Technical Data**Impeller Data**

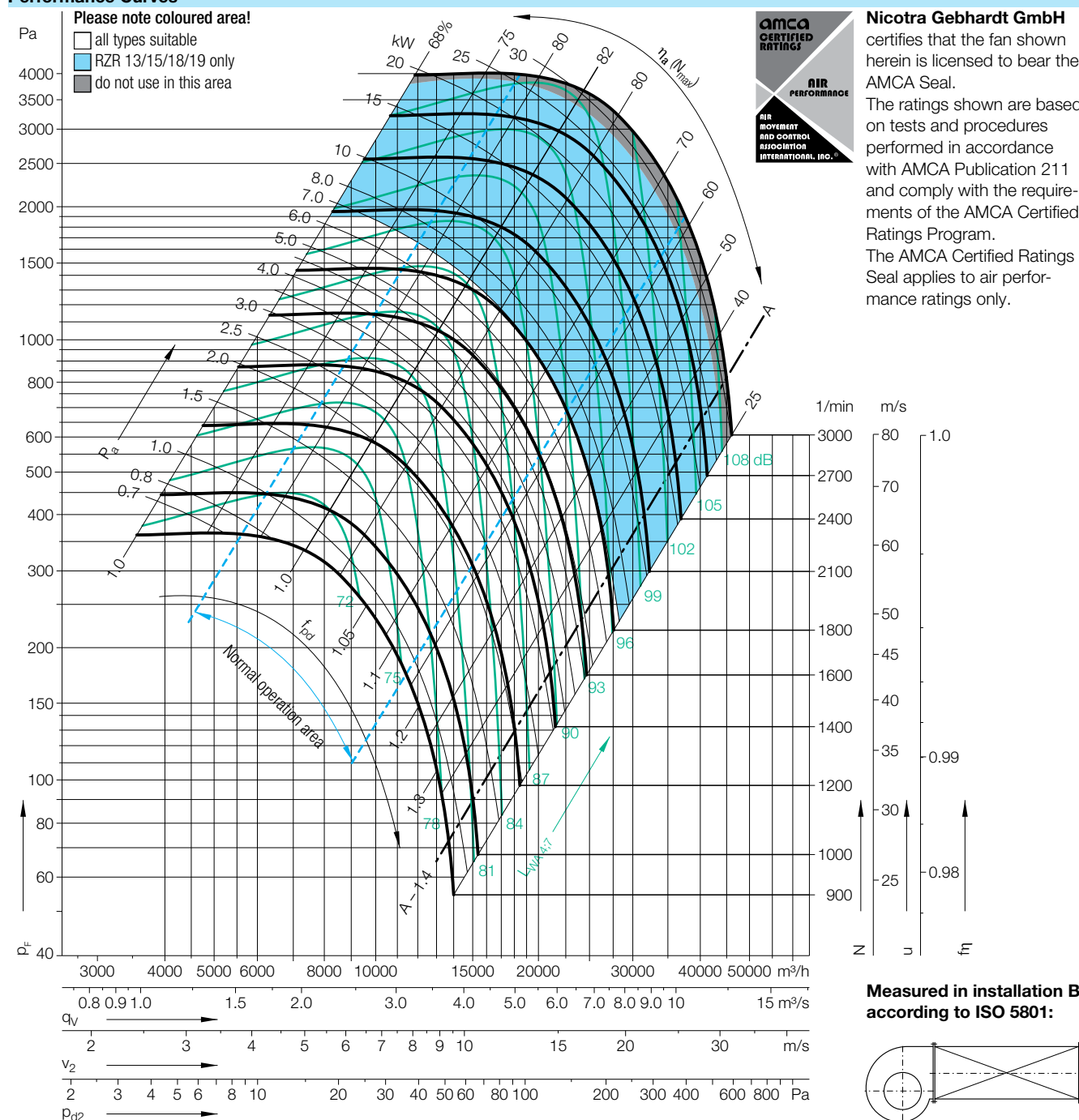
Impeller diameter	D_r	510 mm
Number of blades	z	12
Moment of Inertia	J	0.9 kgm ²

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**Nicotra Gebhardt GmbH**

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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 q_{Vopt}	-5	-3	-3	-3	-6	-7	-13	-21	dB
Speed	Duty point	63	125	250	500	1000	2000	4000	8000	Hz
>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 q_{Vopt}	-10	-8	-8	-2	-6	-8	-11	-18	dB

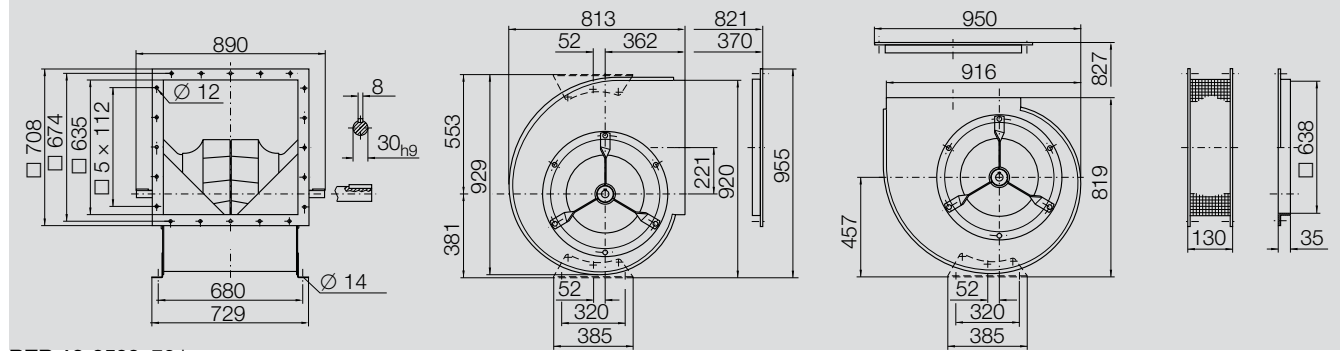
Relative sound power level for discharge side L_{Wrel4} at octave centre frequencies f_c

63	125	250	500	1000	2000	4000	8000	Hz
13	7	4	-3	-8	-14	-17	-25	dB
10	5	3	-2	-7	-13	-17	-25	dB
7	2	2	-2	-6	-12	-18	-27	dB
5	1	1	-2	-6	-10	-17	-27	dB
63	125	250	500	1000	2000	4000	8000	Hz
11	4	2	0	-7	-12	-17	-24	dB
7	1	-2	-3	-6	-10	-15	-23	dB
3	-2	-4	-3	-5	-9	-14	-23	dB
2	-3	-5	-3	-5	-9	-12	-21	dB

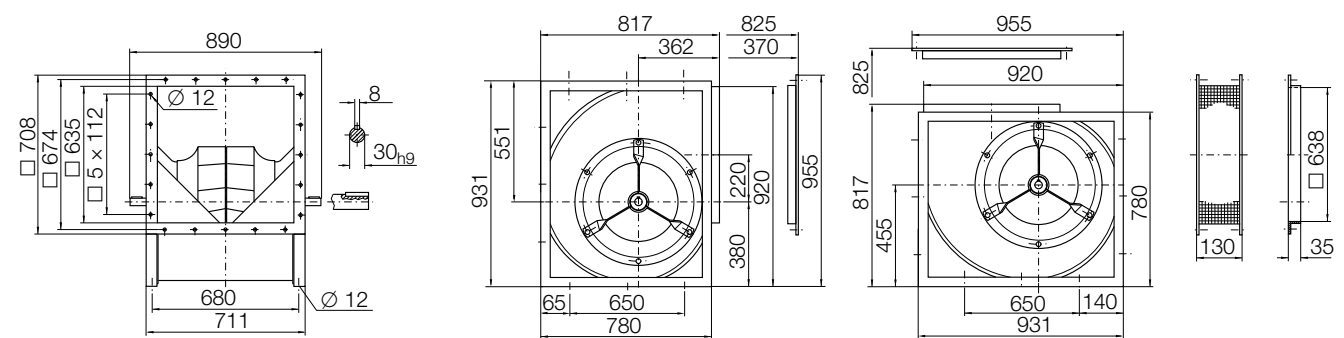
RZR _-0500

Dimensions in mm, subject to change.

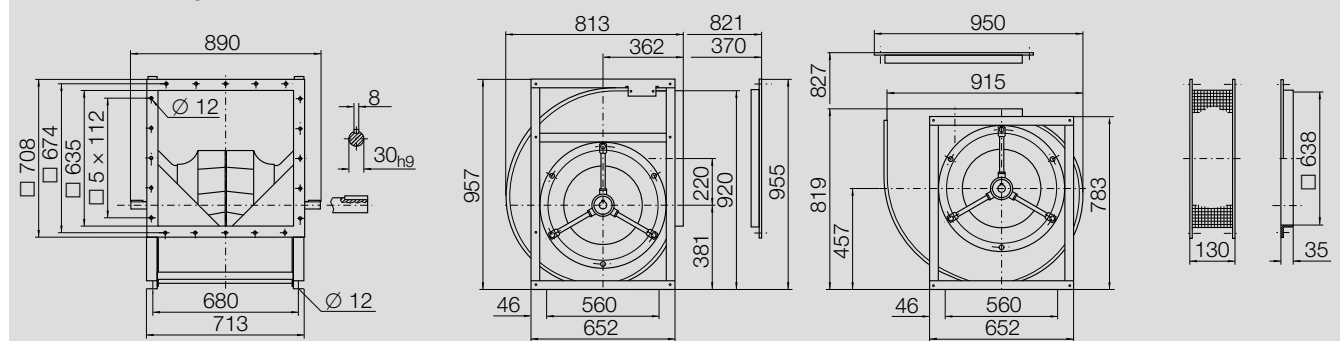
RZR 11-0500 65 kg



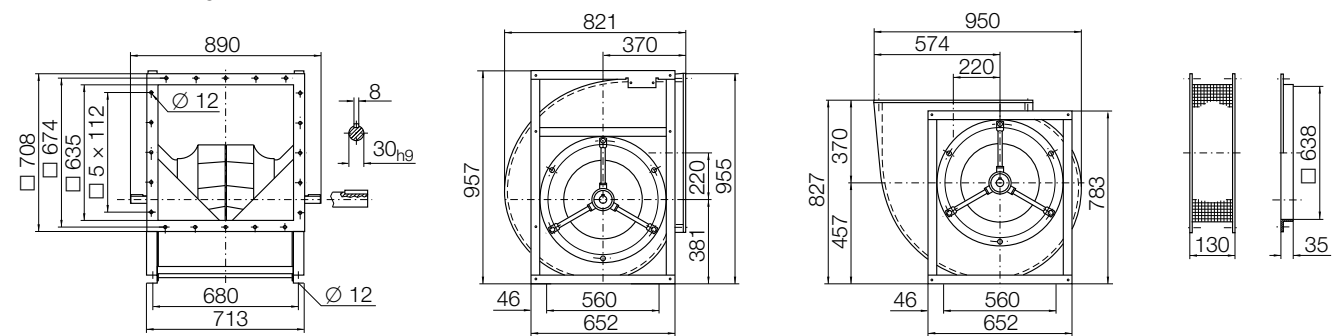
RZR 12-0500 72 kg



RZR 15-0500 94 kg



RZR 19-0500 105 kg



RZR 18-0500 105 kg **RZR 13-0500** 116 kg

