Centrifugal Fans
belt driven

TD_CFB-RDY_EN
Issue 1.1 EN
July 2013

RDY

NICOTRA Gebhardt
fan|tastic solutions

AMCA

Nicotra Gebhardt S.p.A. certifies that the fan shown herein is licensed to bear the AMCA Seal.

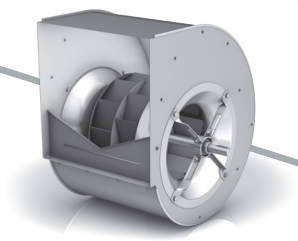
The ratings shown are based on tests and procedures performed in accordance with AMCA publication 211 and AMCA publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

The Nicotra Gebhardt portfolio

A strong provider for many optimal solutions

When it comes to radial fans, we are the first people you should talk to. From belt-driven radial fans to plugfans, it's all there in our product portfolio. We offer the largest, most comprehensive range of products in this area – and of course the matching services.

RDY

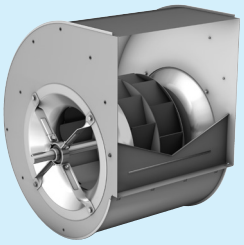


double-inlet
backward-curved
impeller geometry

High performance centrifugal fan RDY

double inlet for belt drive
centrifugal impeller with backward inclined blades

- Volume up to 290,000 m³/h
- Pressure up to 3,500 Pa



RDY

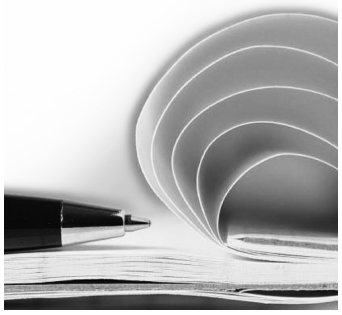
Fittings / Accessories

- complete system accessories
- miscellaneous fittings

Accessories

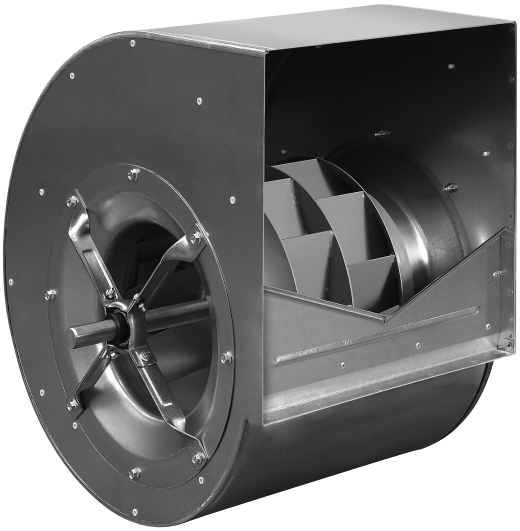
Description

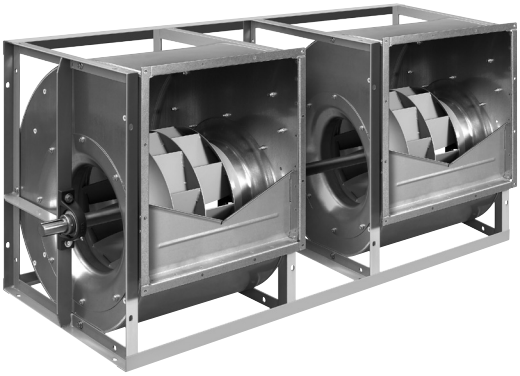
- technical description
- operating limits



Description

Working towards perfection





The RDY series

This fan range employs housings with square-shaped outlet and sizes from the R20 normal number series, in accordance to AMCA Standard 99-0098 76 and to DIN 323.
The RDY range is made of high efficiency, double width, double inlet centrifugal fans with backward inclined blades.
Volume flow rate from 600 m³/h to 150.000 m³/h
Total pressure up to 3.500 Pa.

Construction versions
RDY fans are available in the following versions:

Version	**L**	**R**	**K**	**K1**	**K2**
Sizes	0180/-0560	0180/-0710	0200/-1000	0315/-0900	0500/-1000

Twin fan versions
Where a limited fan height is required, RDY fans are available also in double or twin fan versions, with two double inlet impellers on a common shaft, supported by three or four bearings. These versions are identified by the G2 prefix. Double fans are available in the following sizes:

Version	**G2K**	**G2K2**
Sizes	0250/-1000	0250/-1000

Construction Specifications
The construction standard used for Nicotra Gebhardt RDY fans is inspired to the maximum strength and reliability, independently from the construction version. Common characteristics of these products are:
- product quality
- high performance
- outmost economy
- quietness
- ease of assembly

Scrolls
All the scrolls are made with hot dip galvanised steel EN 10142. No electrical spot welding is used as the scroll back is joined to the side plates with the Pittsbourgh lock forming system. This prevents any oxidation starting from the welding spots.

Attachment points on the side plates
Standard holes in the side plates are used to attach mounting feet or side frames to create different versions. Up to size 400, self-threading screws are used, while all the larger sizes have captive nuts for use with M10 screws.

Impellers
RDY impellers, starting from size 250, have 11 specially-designed, backward inclined blades. Built from mild steel, they are welded, treated and painted with alchidic-melamminic paint RAL 7030. The smaller fan sizes (180...225) have 8 bladed, backward curved impellers, made with Glassfibre Reinforced Polyamide. RDY impellers are statically and dynamically balanced according to ISO 1940 with grade G4.

Side frames
Light-construction side frames of the R versions are made with cold-formed, galvanised steel “Sendzimir” type EN 10142. Heavy-duty side frames of the K, K1, K2, G2K and G2K2 versions are made with hot-rolled steel sections, welded and coated with alchidic-melamminic paint RAL 7030. As an option, they can be protected with hot dip galvanising.

Shafts
Manufactured from precision ground, C45 carbon steel bars, using precision tools to cut keyways. All the shafts are coated, after assembly, with a clearly distinguishable, bright yellow protective paint. Stainless steel shafts can be provided on request, with an appropriate reduction of the maximum operating speed. Shaft diameters are selected to achieve a safety factor for critical speed ≥ 1.25 higher than the maximum operating speed..

The product range at a glance

The technical specifications of the RDY series.

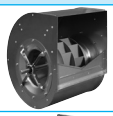
The standard series are designed for permanent ventilation at up to +80 °C resp. +100 °C. According to DIN 24166, the specifications conform to accuracy class 1 (for all sizes from 0355 to 1000) and accuracy class 2 (for all sizes from 0180 to 315).

RDY series

- Lap jointed scroll of galvanised sheet steel assembled by Pittsburgh lockforming, with V-cut off.
- High performance radial impeller with 11 backward inclined blades made of sheet steel, welded and painted, balanced acc. to ISO 1940.
- Volume up to 150.000 m^3/h
- Pressure up to 3.500 Pa

The RDY range of models:
The right fan for every specification!

Depending on the fan size, the RDY series have up to 5 mechanical versions of the single fan and up to 2 additional twin fan options. In this way, we ensure that we have the perfect model for all requirements and any application.

Version	Description	Figure
RDY L	Lap jointed scroll without feet and discharge flange. Light duty bearing execution with pressed steel housing/strut assemblies.	
RDY R	Lap jointed scroll with rectangular side frame, without discharge flange. Light duty bearing execution with pressed steel housing/strut assemblies.	
RDY K	Lap jointed scroll with heavy duty reinforced side frames, without discharge flange. Medium duty bearing execution with cast iron pillow block, mounted on a robust pedestal.	
RDY K1	Lap jointed scroll with heavy duty reinforced side frames, without discharge flange. Medium-heavy duty bearing execution with cast iron pillow block, mounted on a robust pedestal.	
RDY K2	Lap jointed scroll with heavy duty reinforced side frames, without discharge flange. Heavy duty bearing execution with single-piece resp. split-type plummer block, mounted on a robust pedestal.	

Version	Description	Figure
RDY G2K	The two single fans RDY K are fitted together to a robust assembly by means of 3 angle bars. Both impellers are fitted on a common shaft supported by 3 bearings (sizes 0250/-0630) or the fans have separated shafts being connected by a elastic coupling (sizes 0710/-1000).	
RDY G2K2	The two single fans RDY K2 are fitted together to a robust assembly by means of 3 angle bars. Both impellers are fitted on a common shaft supported by 3 bearings (sizes 0250/-0630) or the fans have separated shafts being connected by a elastic coupling (sizes 0710/-1000).	

Example of Selection

Technical Data

Example of Selection

Total pressure:
1480 Pa

Air volume:
24,000 m³/h

Velocity pressure:
65 Pa

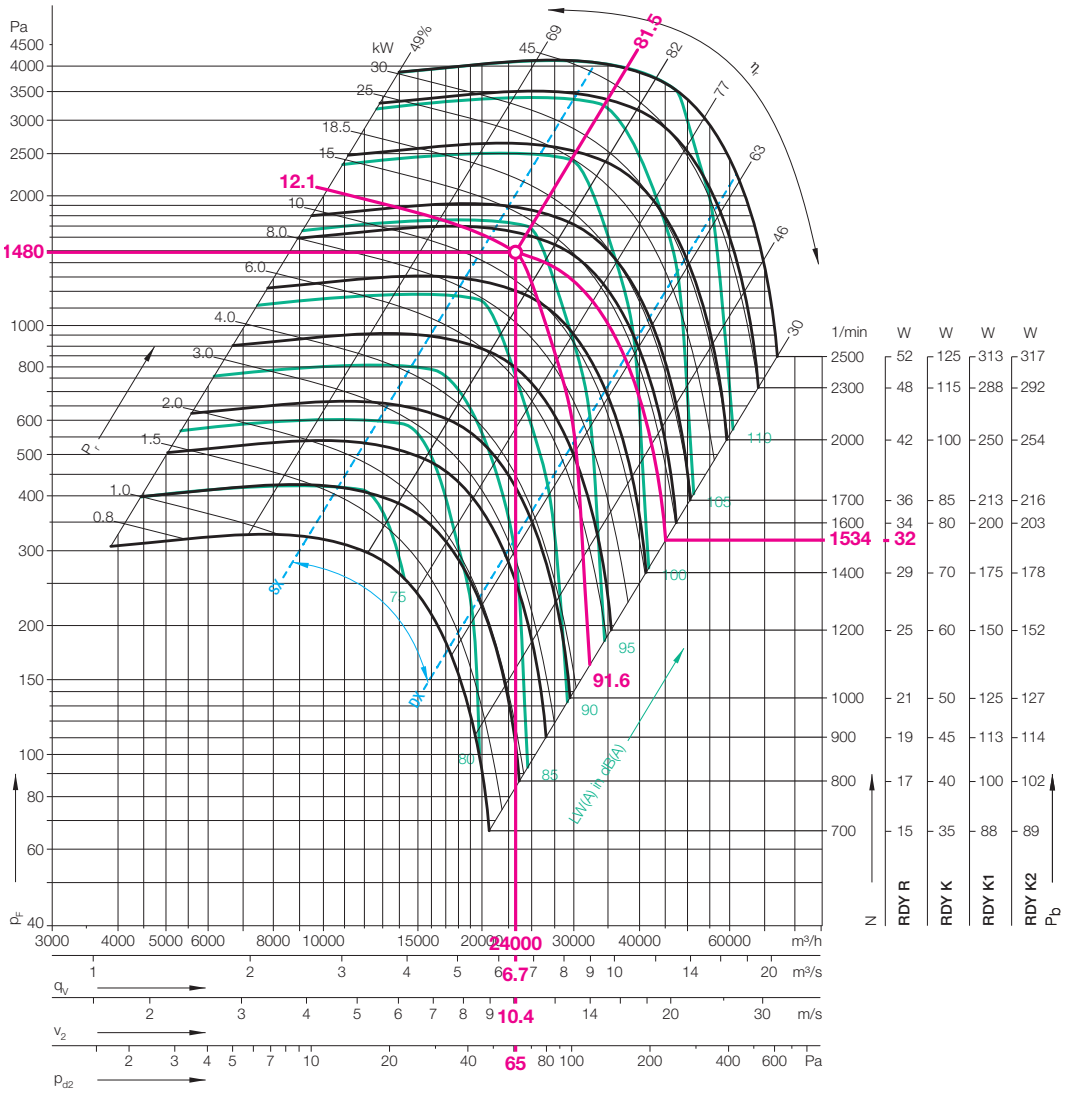
R.p.m. of the impeller:
1534 R.p.m.

Total Efficiency:
81.3 % (*)

Absobed power:
12.132 kW (**)

Sound power level:
91.6 dB(A)

Air outlet velocity:
10.4 m/s

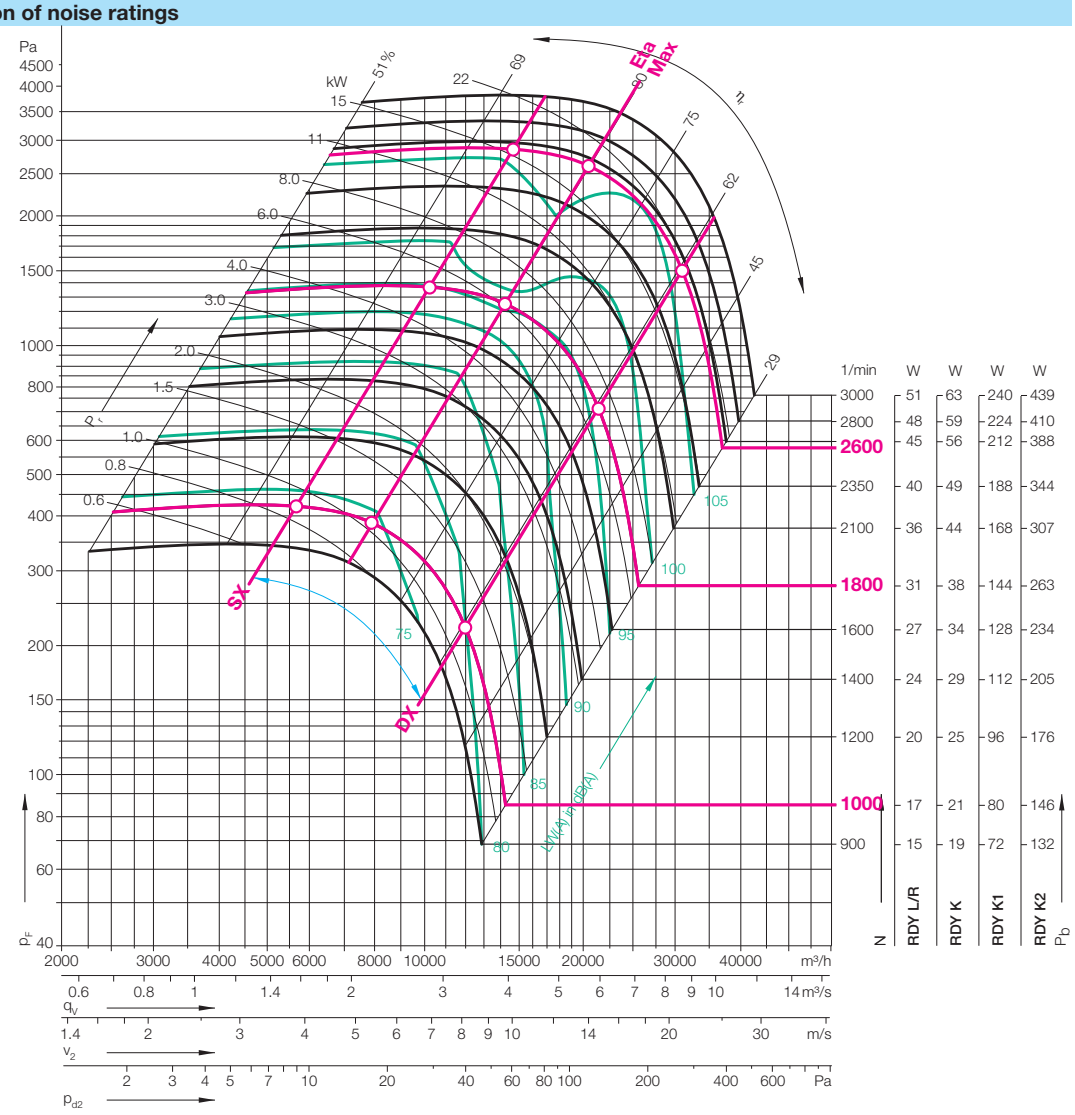


(*) $\eta_{aB} = \eta_{rB} \cdot \frac{W_r}{(W_r + W_b)}$ (*) $81.5 \frac{12.100}{12.132} = 81.3\ \%$

(**) $W = W_r + W_b$ (**) $12.100 + 0.032 = 12.132$ kW

Example of Selection

Coefficients for calculation of noise ratings



The following tables show, for each fan size, the coefficients requiblue to estimate sufficiently approximate values of those Sound Power Levels which cannot be directly read on the operating diagrams.
These coefficients are given on three different similarity curves and at three different operating speeds.
Those coefficients marked with “SX” apply to operating points located on the left border of the normal operating area (blue diagonal line on the left). The coefficients marked with “DX” apply to operating points located on the right border of the normal operating area (blue diagonal line on the right). Those coefficients marked with “EtaTMax” apply to operating points located on the maximum efficiency operating line.

It is preferable to interpolate between the listed coefficients when referring to the operating points between the listed speeds or operating lines.
The Ventil selection program applies the complete calculation procedure, in accordance with BS 848 Part 2, Appendix G, and provides easily the best approximation of the results.

RDY _-0315

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Values shown are for inlet LWi (A) sound power levels for installation type B: free inlet, ducted outlet.

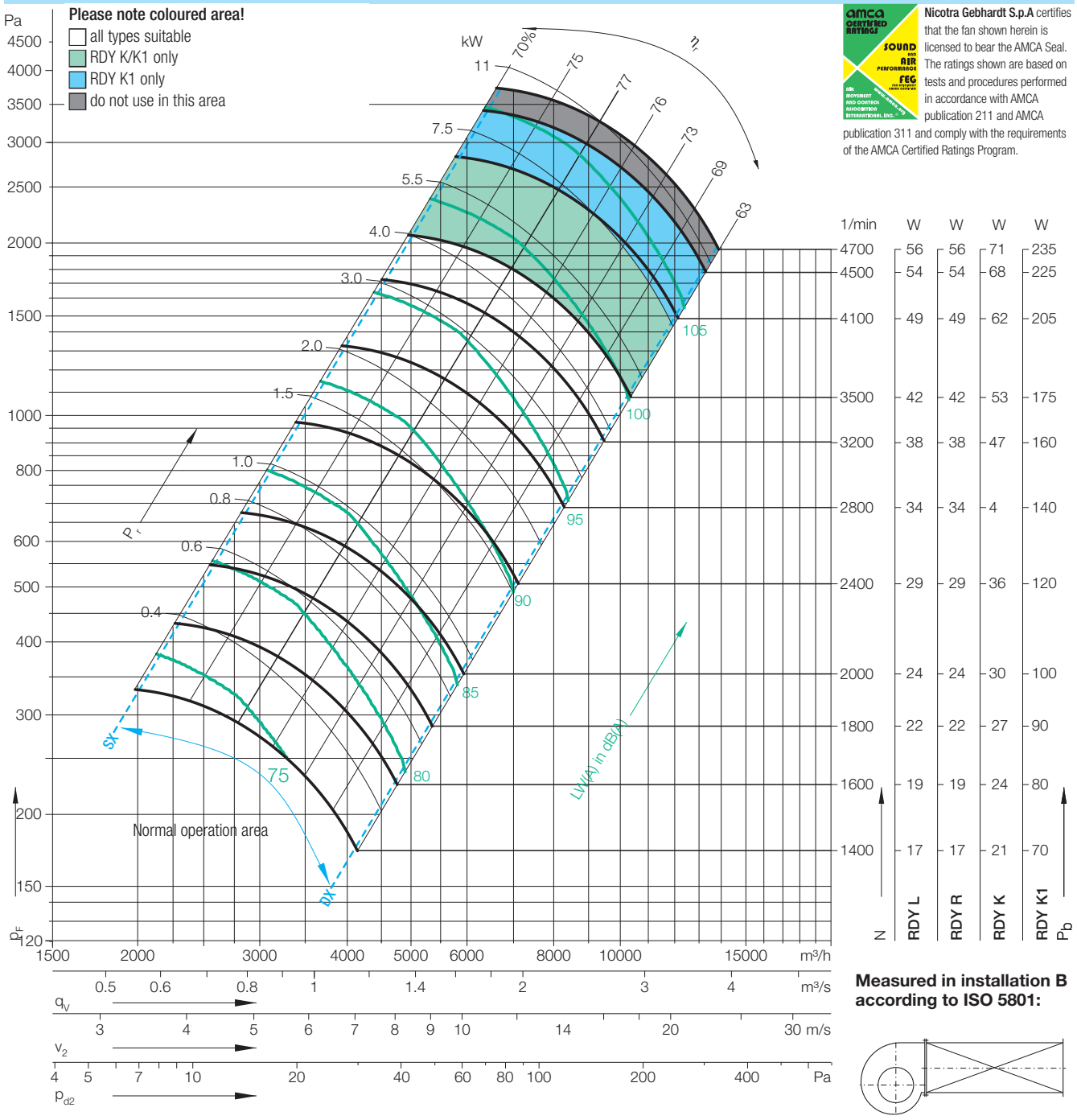
Technical Data

Impeller Data			
Impeller diameter	D_r	317	mm
Number of blades	z	11	
Moment of Inertia	J	0,110	kgm²

Impeller Data			
Impeller weight	m	7,14	kg
Density of media	ρ_1	1,2	kg/m³
Tolerance class (DIN 24166)		2	

FEG 90

Performance Curves



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Measured in installation B according to ISO 5801:

RDY _-0355

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The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA Standard 301; the A-weighted sound power ratings shown have been calculated per Standard 301.
Values shown are for inlet LWi (A) sound power levels for installation type B: free inlet, ducted outlet.

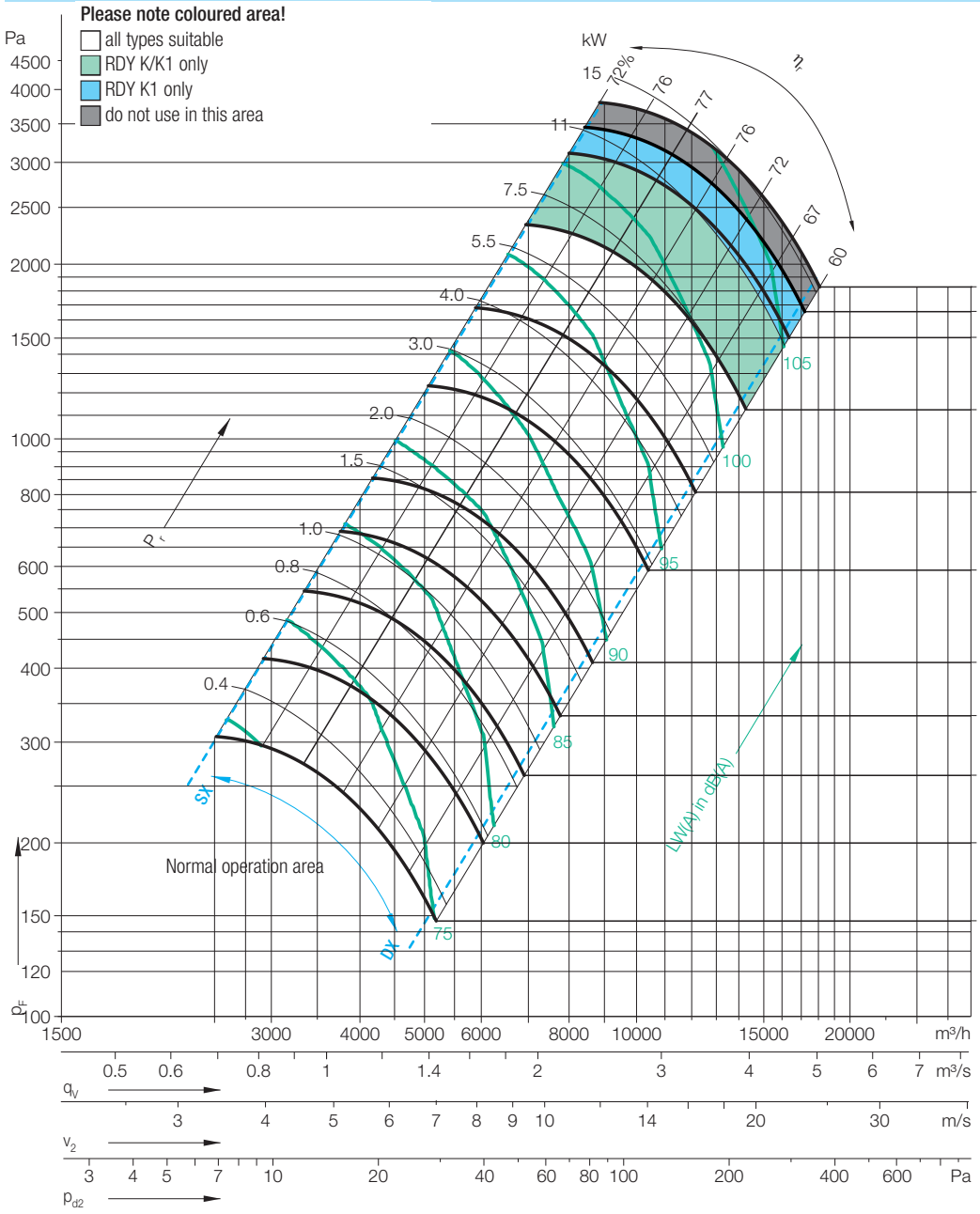
Technical Data

Impeller Data			
Impeller diameter	D_r	357	mm
Number of blades	z	11	
Moment of Inertia	J	0,200	kgm²

Impeller Data			
Impeller weight	m	10,2	kg
Density of media	ρ_1	1,2	kg/m³
Tolerance class (DIN 24166)		1	

FEG 85

Performance Curves



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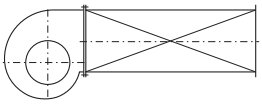
Measured in installation B according to ISO 5801:



RDY _-0400

Performance certified is for installation type B - free inlet, ducted outlet.
Performance ratings do not include the effects of appurtenances (accessories); power rating (kW) does not include transmission losses.
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Values shown are for inlet LWi (A) sound power levels for installation type B: free inlet, ducted outlet.

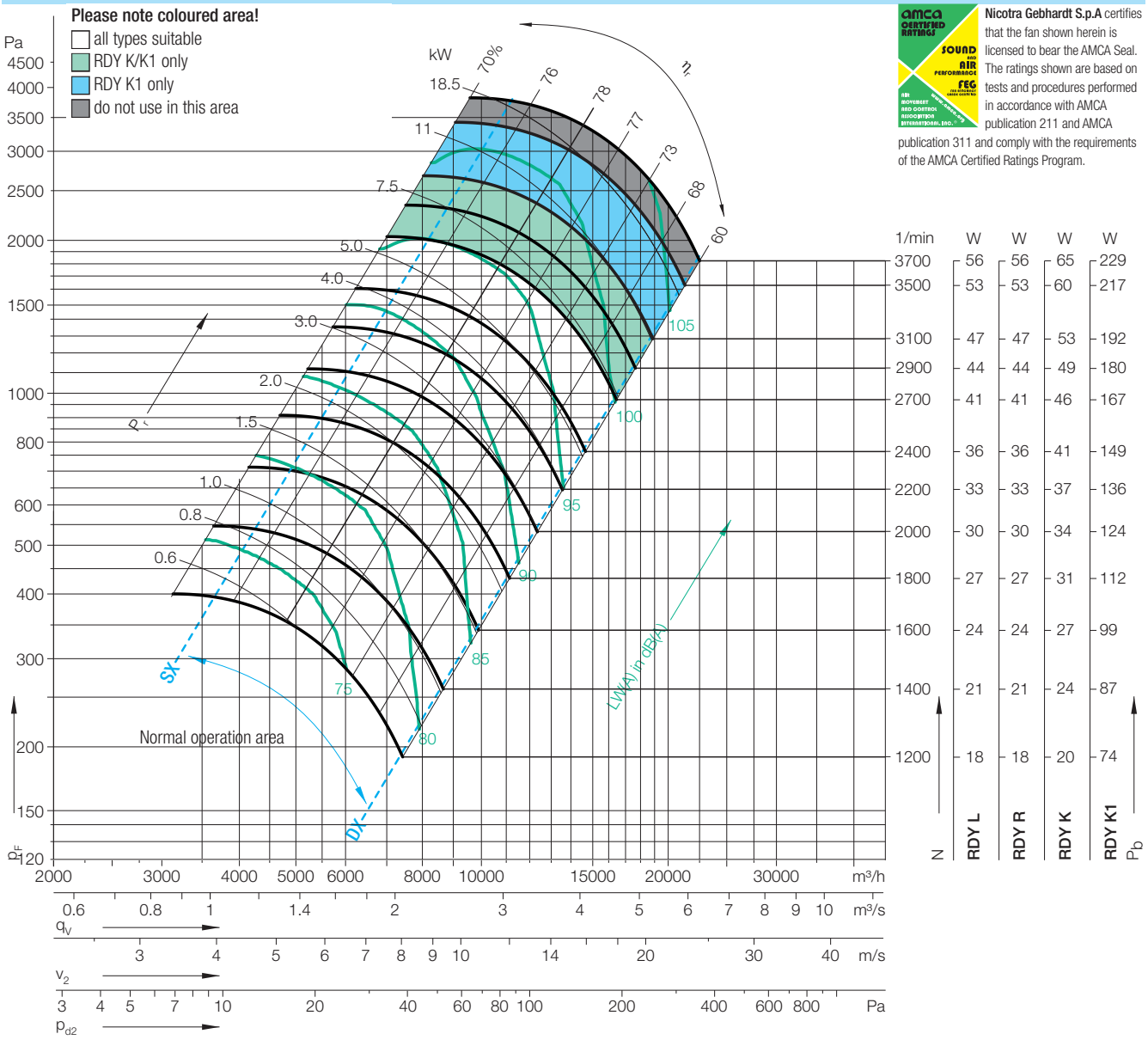
Technical Data

Impeller Data			
Impeller diameter	D_r	402	mm
Number of blades	z	11	
Moment of Inertia	J	0,330	kgm²

Impeller Data			
Impeller weight	m	12,7	kg
Density of media	ρ_1	1,2	kg/m³
Tolerance class (DIN 24166)		1	

FEG 85

Performance Curves



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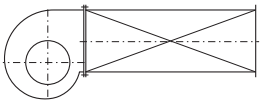
Measured in installation B according to ISO 5801:



RDY _-0450

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Performance ratings do not include the effects of appurtenances (accessories); power rating (kW) does not include transmission losses.
The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA Standard 301; the A-weighted sound power ratings shown have been calculated per Standard 301.
Values shown are for inlet LWi (A) sound power levels for installation type B: free inlet, ducted outlet.

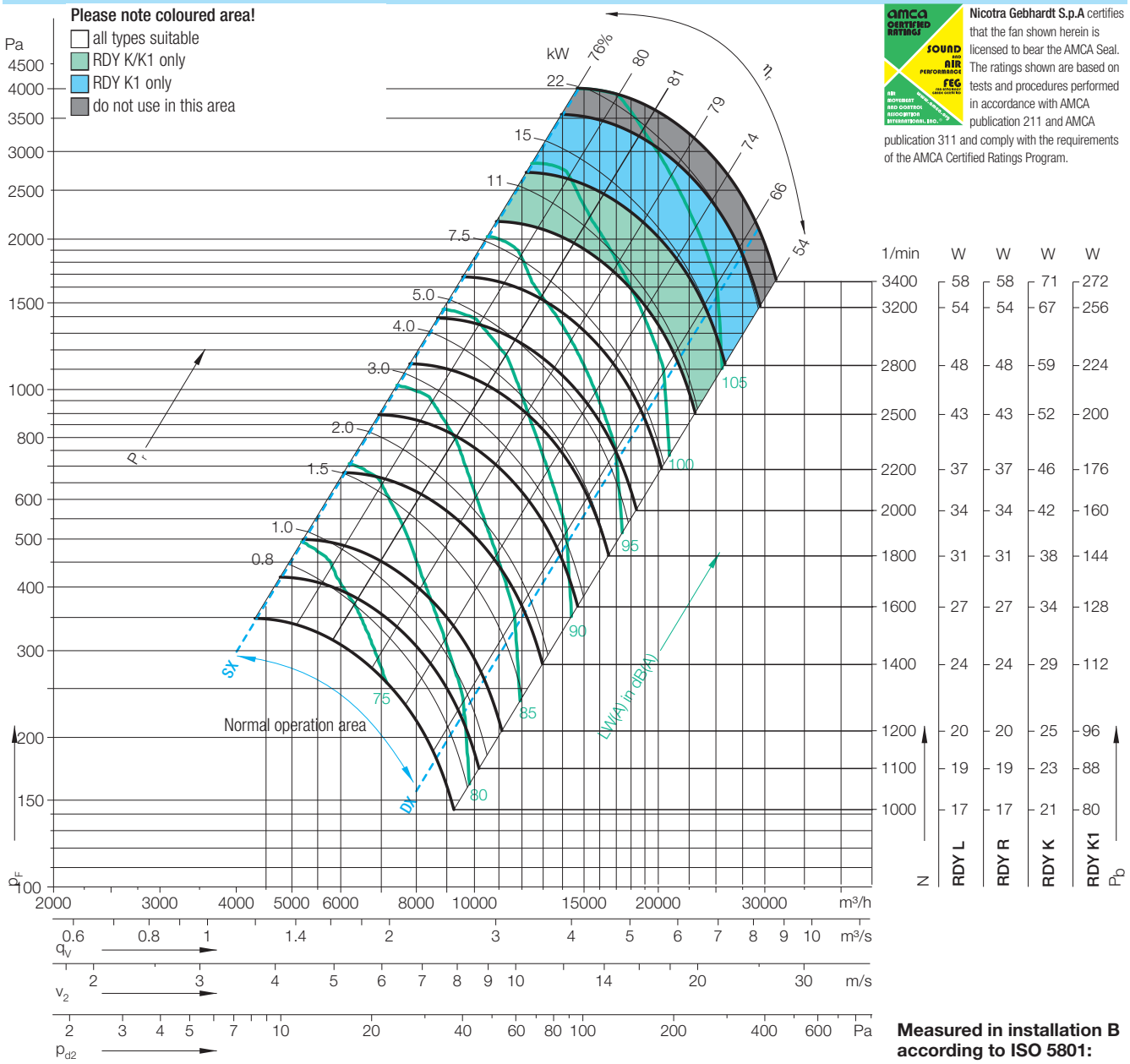
Technical Data

Impeller Data			
Impeller diameter	D_r	452	mm
Number of blades	z	11	
Moment of Inertia	J	0,520	kgm²

Impeller Data			
Impeller weight	m	17,6	kg
Density of media	ρ_1	1,2	kg/m³
Tolerance class (DIN 24166)		1	

FEG 90

Performance Curves



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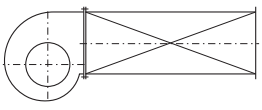

RDY _-0500

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Values shown are for inlet LWi (A) sound power levels for installation type B: free inlet, ducted outlet.

Technical Data

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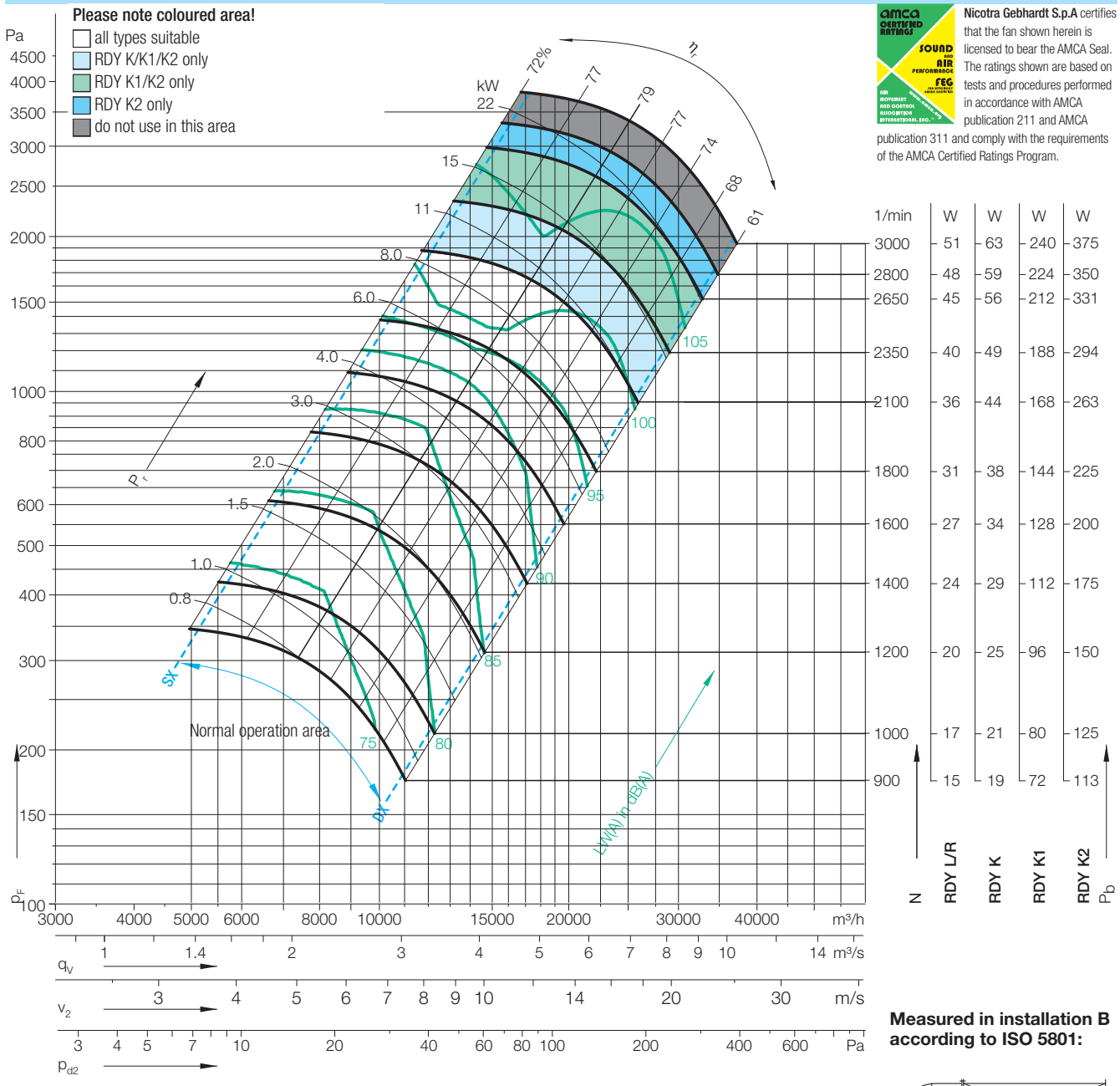
Impeller Data			
Impeller diameter	D_r	502	mm
Number of blades	z	11	
Moment of Inertia	J	0,890	kgm²

Impeller Data			
Impeller weight	m	23,5	kg
Density of media	ρ_1	1,2	kg/m³
Tolerance class (DIN 24166)		1	

Performance Curves



1/min	W	W	W	W
3000	51	63	240	375
2800	48	59	224	350
2650	45	56	212	331
2350	40	49	188	294
2100	36	44	168	263
1800	31	38	144	225
1600	27	34	128	200
1400	24	29	112	175
1200	20	25	96	150
1000	17	21	80	125
900	15	19	72	113
N	RDY L/R	RDY K	RDY K1	RDY K2

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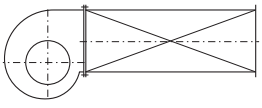

RDY _-0560

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Values shown are for inlet LWi (A) sound power levels for installation type B: free inlet, ducted outlet.

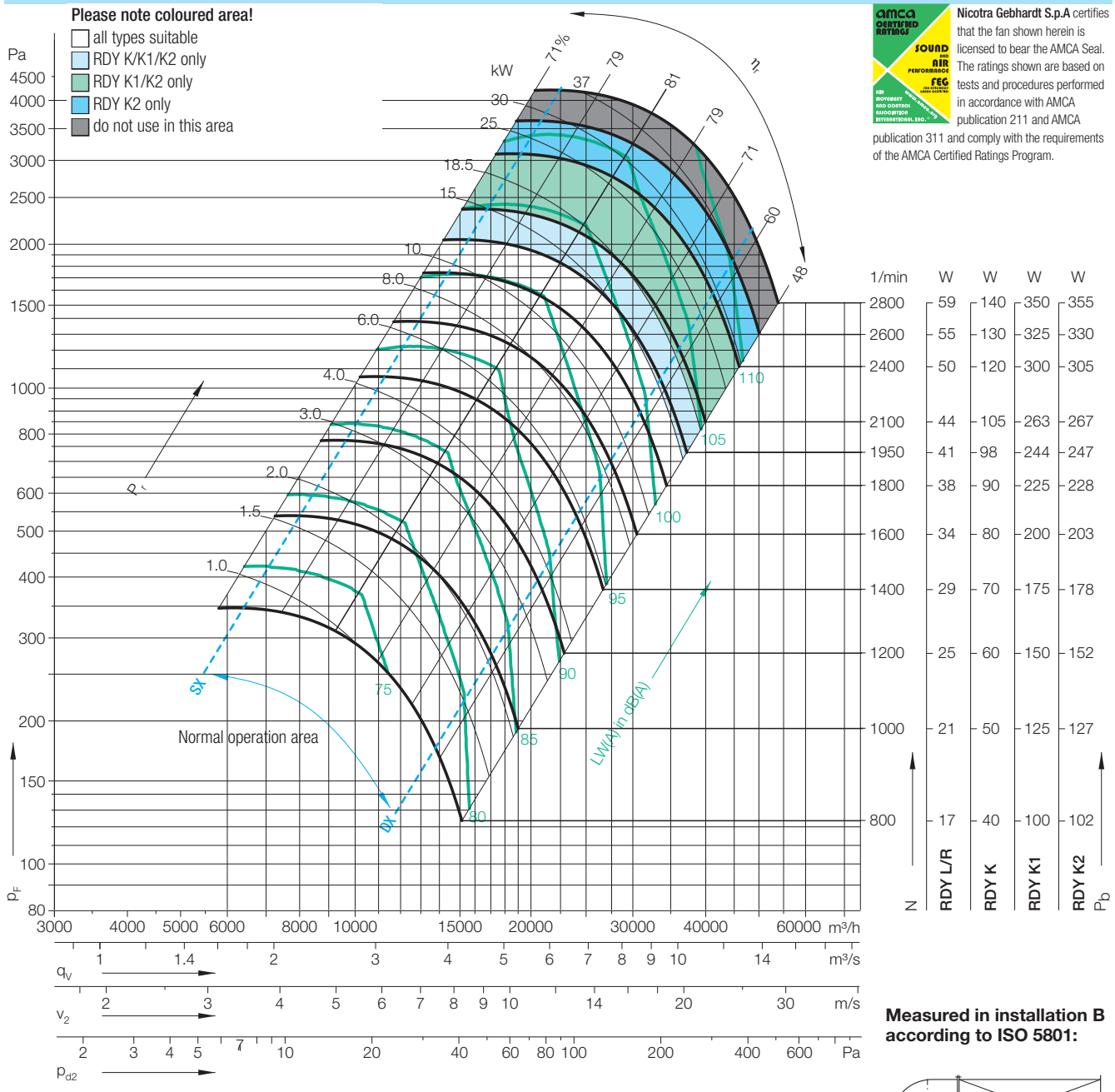
Technical Data

Impeller Data			
Impeller diameter	D_r	562	mm
Number of blades	z	11	
Moment of Inertia	J	1,410	kgm²

Impeller Data			
Impeller weight	m	28,8	kg
Density of media	ρ_1	1,2	kg/m³
Tolerance class (DIN 24166)		1	

FEG 85

Performance Curves



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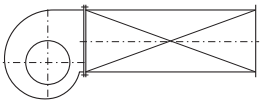

RDY _-0630

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Values shown are for inlet LWi (A) sound power levels for installation type B: free inlet, ducted outlet.

Technical Data

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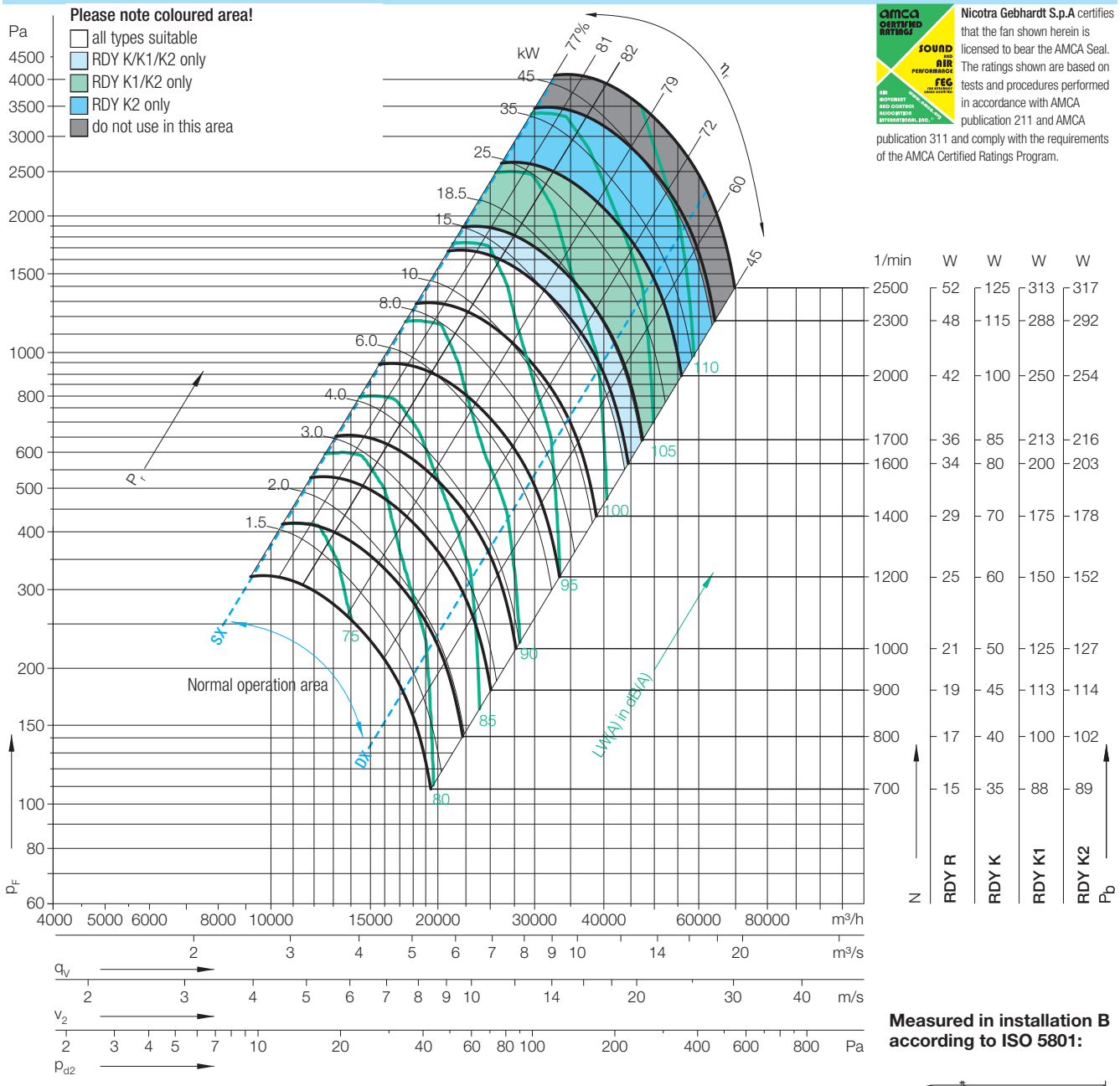
Impeller Data			
Impeller diameter	D_r	632	mm
Number of blades	z	11	
Moment of Inertia	J	2,320	kgm²

Impeller Data			
Impeller weight	m	36,7	kg
Density of media	ρ_1	1,2	kg/m³
Tolerance class (DIN 24166)		1	

Performance Curves



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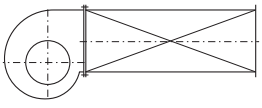

RDY _-0710

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Values shown are for inlet LWi (A) sound power levels for installation type B: free inlet, ducted outlet.

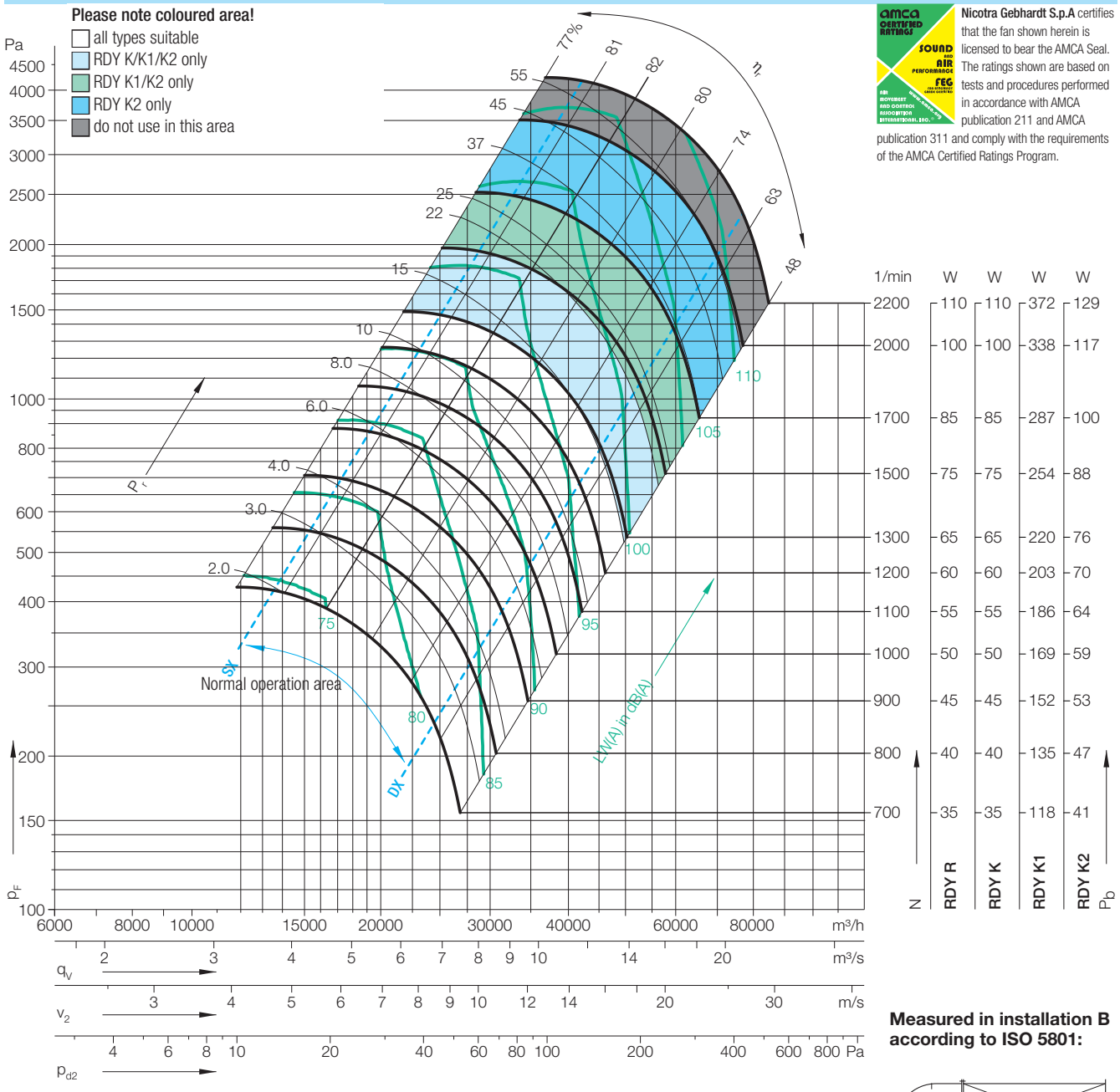
Technical Data

FEG 85

Impeller Data			
Impeller diameter	D_r	712	mm
Number of blades	z	11	
Moment of Inertia	J	4,940	kgm²

Impeller Data			
Impeller weight	m	60	kg
Density of media	ρ_1	1,2	kg/m³
Tolerance class (DIN 24166)		1	

Performance Curves



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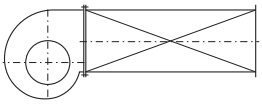

RDY _-0800

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Values shown are for inlet LWi (A) sound power levels for installation type B: free inlet, ducted outlet.

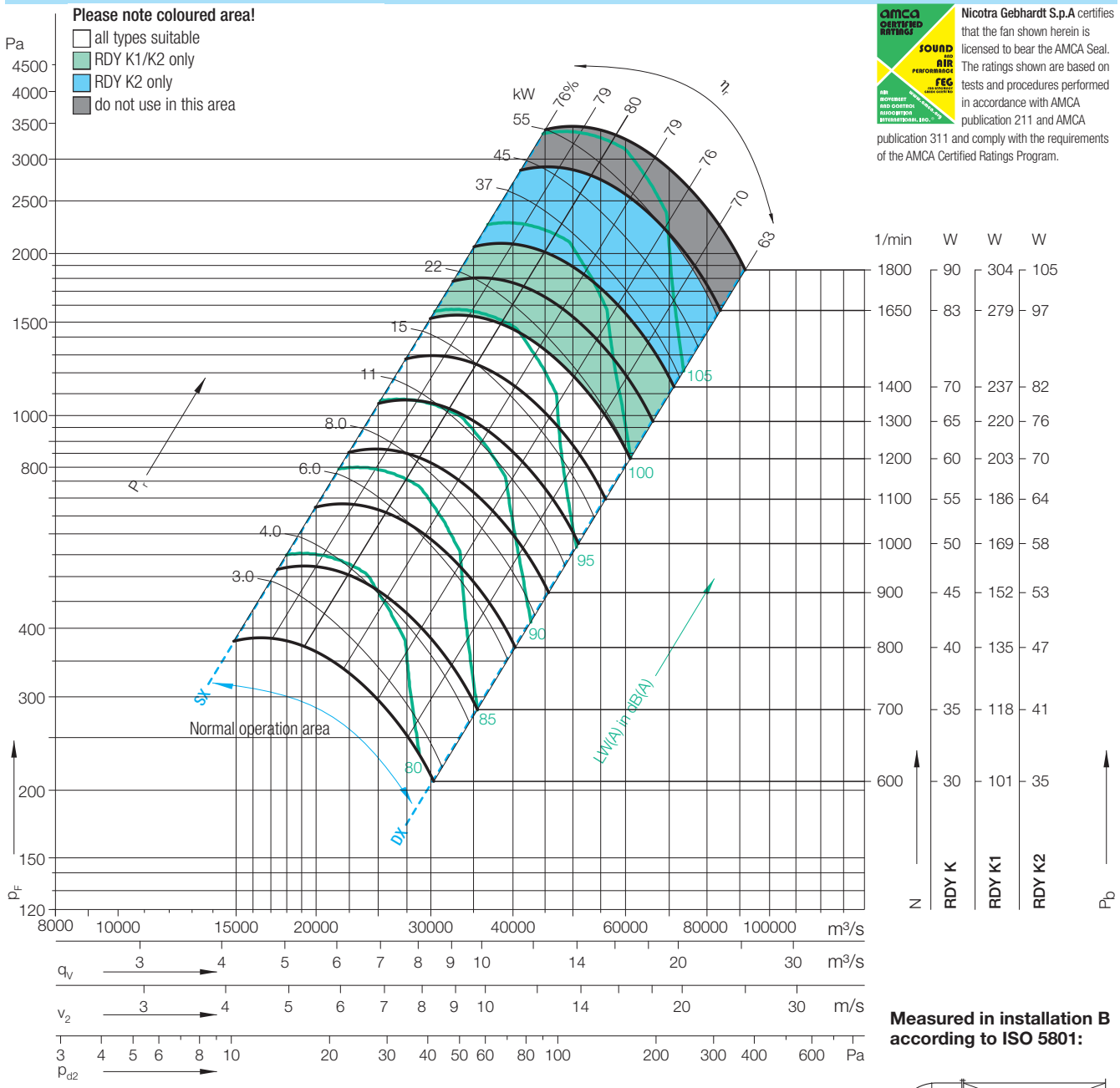
Technical Data

Impeller Data			
Impeller diameter	D_r	802	mm
Number of blades	z	11	
Moment of Inertia	J	8,250	kgm²

Impeller Data			
Impeller weight	m	86	kg
Density of media	ρ_1	1,2	kg/m³
Tolerance class (DIN 24166)		1	

FEG 85

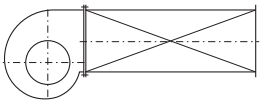
Performance Curves



amca CERTIFIED RATINGS — SOUND AIR PERFORMANCE FEG

Nicotra Gebhardt S.p.A 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 AMCA publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Measured in installation B according to ISO 5801:



RDY _-0900

Performance certified is for installation type B - free inlet, ducted outlet.
Performance ratings do not include the effects of appurtenances (accessories); power rating (kW) does not include transmission losses.
The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA Standard 301; the A-weighted sound power ratings shown have been calculated per Standard 301.
Values shown are for inlet LWi (A) sound power levels for installation type B: free inlet, ducted outlet.

Technical Data

Impeller Data

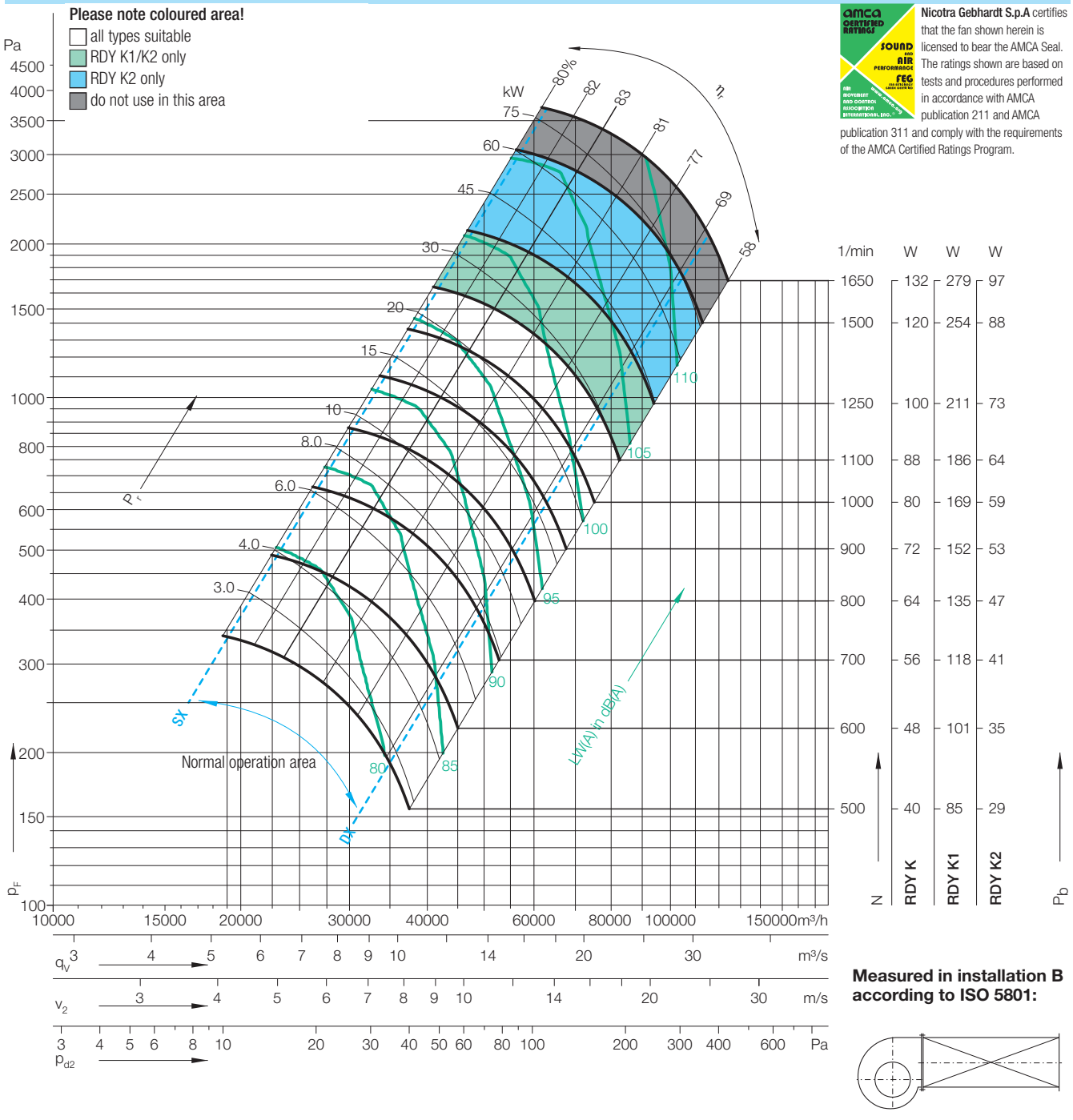
Impeller diameter	D_r	902	mm
Number of blades	z	11	
Moment of Inertia	J	12,80	kgm²

Impeller Data

Impeller weight	m	102	kg
Density of media	ρ_1	1,2	kg/m³
Tolerance class (DIN 24166)		1	

FEG 85

Performance Curves



Nicotra Gebhardt S.p.A 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 AMCA publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Measured in installation B according to ISO 5801:

RDY _-1000

Performance certified is for installation type B - free inlet, ducted outlet.
Performance ratings do not include the effects of appurtenances (accessories); power rating (kW) does not include transmission losses.
The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA Standard 301; the A-weighted sound power ratings shown have been calculated per Standard 301.
Values shown are for inlet LWi (A) sound power levels for installation type B: free inlet, ducted outlet.

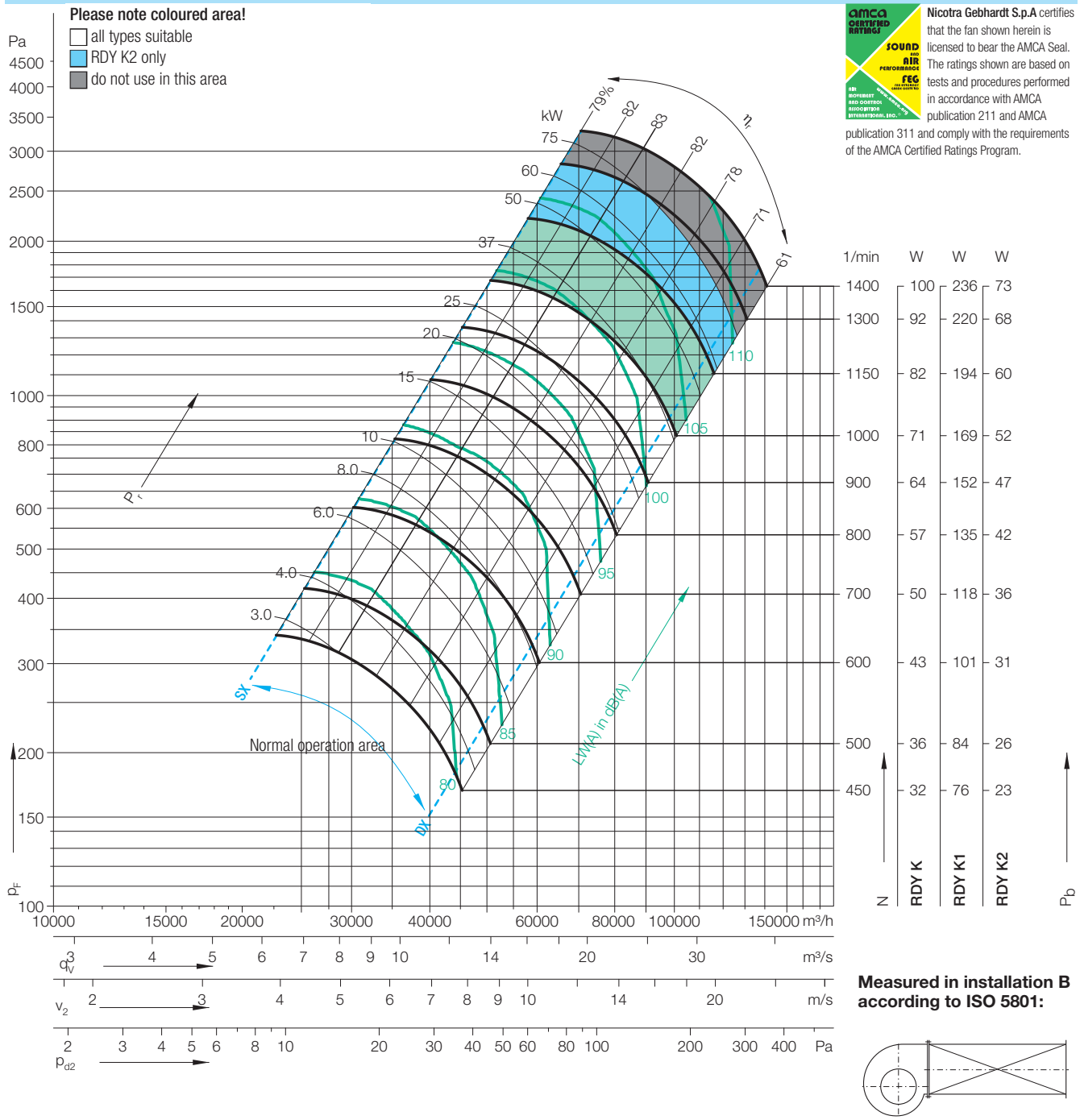
Technical Data

FEG 85

Impeller Data			
Impeller diameter	D_r	1002	mm
Number of blades	z	11	
Moment of Inertia	J	24,80	kgm²

Impeller Data			
Impeller weight	m	146	kg
Density of media	ρ_1	1,2	kg/m³
Tolerance class (DIN 24166)		1	

Performance Curves



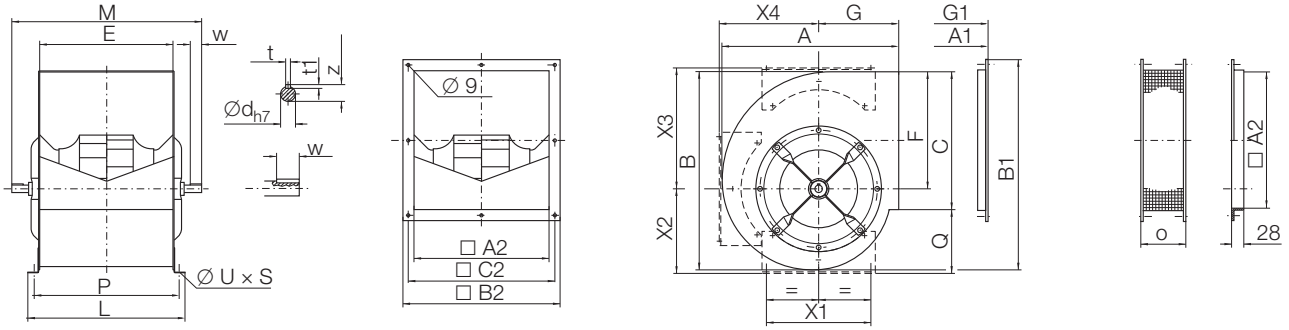
Nicotra Gebhardt S.p.A certifies that the fan shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 211 and AMCA publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Measured in installation B according to ISO 5801:

RDY L-0180/-0560

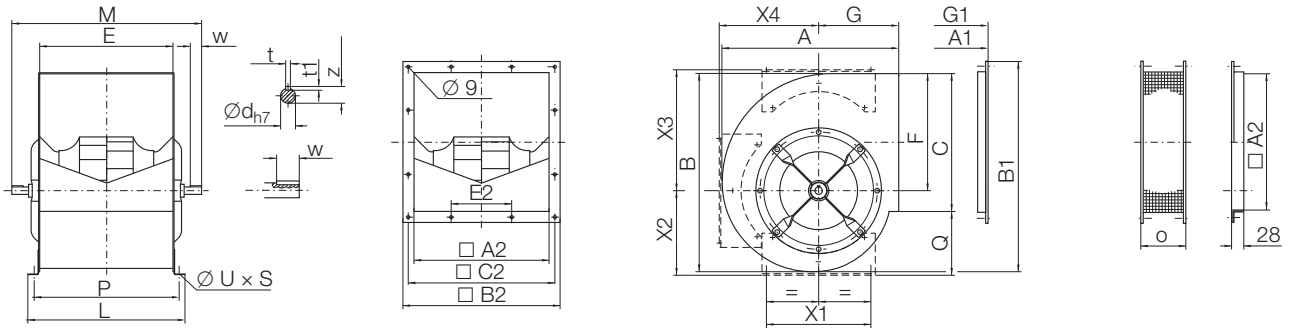
Dimensions in mm, subject to change without prior notice.

RDY L-0180/-0355



RDY	A	A1	A2	B	B1	B2	C	C2	E	F	G	G1	L	M	O	P	Q	X1	X2	X3	X4	t	t1	w	z	Ød	U×S
0180	310	313	229	326	354	285	229	259	229	193	152	155	289	370	156	259	128	180	164	224	164	6	6	30	22,5	20	11×16
0200	343	346	256	364	392	312	256	286	256	215	164	167	316	420	156	286	140	224	181	245	184	6	6	30	22,5	20	11×16
0225	381	384	288	409	437	344	288	318	288	243	180	183	348	450	156	318	152	224	197	274	204	6	6	30	22,5	20	11×16
0250	417	420	322	453	481	378	322	352	322	270	195	198	382	485	156	352	158	224	210	299	227	6	6	30	22,5	20	11×16
0280	464	467	361	508	536	417	361	391	361	302	215	218	421	555	156	391	177	280	236	331	255	8	7	40	28	25	11×16
0315	516	519	404	572	600	460	404	434	404	340	236	239	464	600	156	434	197	280	261	370	283	8	7	40	28	25	11×16
0355	576	579	453	645	673	509	453	483	453	383	261	264	533	675	156	493	204	355	274	411	320	8	7	40	33	30	11×16

RDY L-0400/-0560

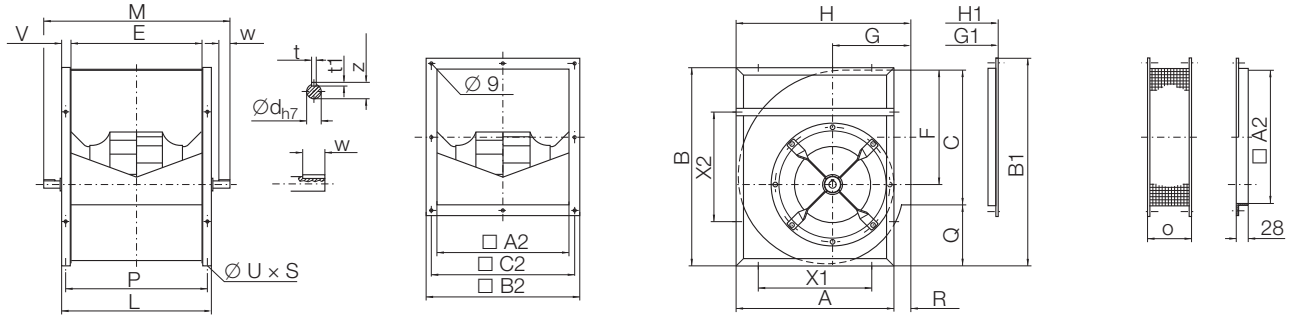


RDY	A	A1	A2	B	B1	B2	C	C2	E	E2	F	G	G1	L	M	O	P	Q	X1	X2	X3	X4	t	t1	w	z	Ød	U×S
0400	645	648	507	725	753	563	507	537	507	200	432	290	293	587	725	156	547	227	355	302	462	359	8	7	40	33	30	11×16
0450	722	725	569	817	845	625	569	599	569	200	486	322	325	665	815	156	619	253	530	336	518	407	10	8	50	38	35	13×18
0500	795	798	638	906	934	694	638	668	638	250	538	352	355	734	885	156	688	275	530	375	568	448	10	8	50	38	35	13×18
0560	886	889	715	1016	1044	771	715	745	715	250	603	390	393	811	1000	156	765	304	530	416	634	502	12	8	70	43	40	13×18

RDY R-0180/-0710

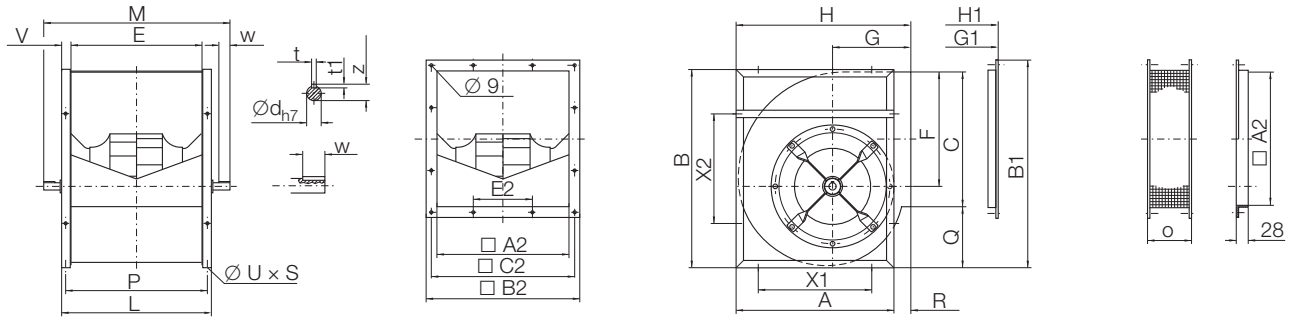
Dimensions in mm, subject to change without prior notice.

RDY R-0180/-0355



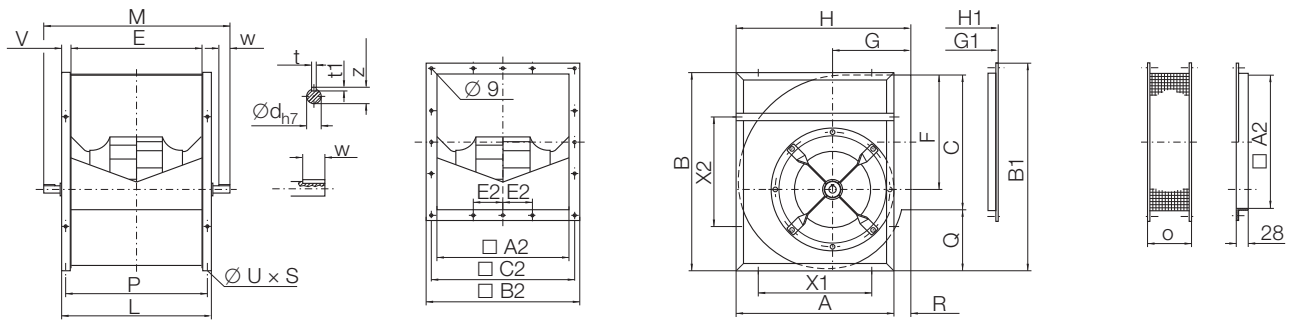
RDY	A	A2	B	B1	B2	C	C2	E	F	G	G1	H	H1	L	M	O	P	Q	R	V	X1	X2	t	t1	w	z	Ød	U×S
0180	294	229	336	362	285	229	259	229	195	152	155	322	325	269	370	165	253	105	28	20	180	180	6	6	30	22,5	20	9×12
0200	306	256	370	394	312	256	286	256	215	164	167	343	346	306	420	165	286	110	37	25	224	224	6	6	30	22,5	20	11×16
0225	345	288	415	439	344	288	318	288	243	180	183	382	385	338	450	165	318	123	37	25	224	224	6	6	30	22,5	20	11×16
0250	381	322	461	485	378	322	352	322	270	195	198	419	422	372	485	165	352	135	38	25	224	224	6	6	30	22,5	20	11×16
0280	429	361	518	541	417	361	391	361	302	215	218	466	469	421	555	165	391	152	37	30	280	280	8	7	40	28	25	13×18
0315	480	404	578	602	460	404	434	404	340	236	239	518	521	464	600	165	434	170	38	30	280	280	8	7	40	28	25	13×18
0355	544	453	655	677	509	453	483	453	383	261	264	578	581	533	675	165	493	196	34	40	355	355	8	7	40	33	30	13×18

RDY R-0400/-0630



RDY	A	A2	B	B1	B2	C	C2	E	E2	F	G	G1	H	H1	L	M	O	P	Q	R	V	X1	X2	t	t1	w	z	Ød	U×S
0400	609	507	736	759	563	507	537	507	200	432	290	293	649	652	587	725	165	547	224	40	40	355	355	8	7	40	33	30	13×18
0450	679	569	827	849	625	569	599	569	200	486	322	325	726	729	649	815	165	619	252	46	40	530	530	10	8	50	38	35	13×18
0500	748	638	918	940	694	638	668	638	250	538	352	355	800	803	718	885	165	688	274	51	40	530	530	10	8	50	38	35	13×18
0560	830	715	1030	1050	771	715	745	715	250	603	390	393	891	894	815	1000	165	765	307	50	50	530	530	12	8	70	43	40	13×18
0630	940	801	1157	1178	857	801	831	801	300	679	434	437	996	999	901	1085	165	851	349	56	50	530	530	12	8	70	43	40	13×18

RDY R-0710

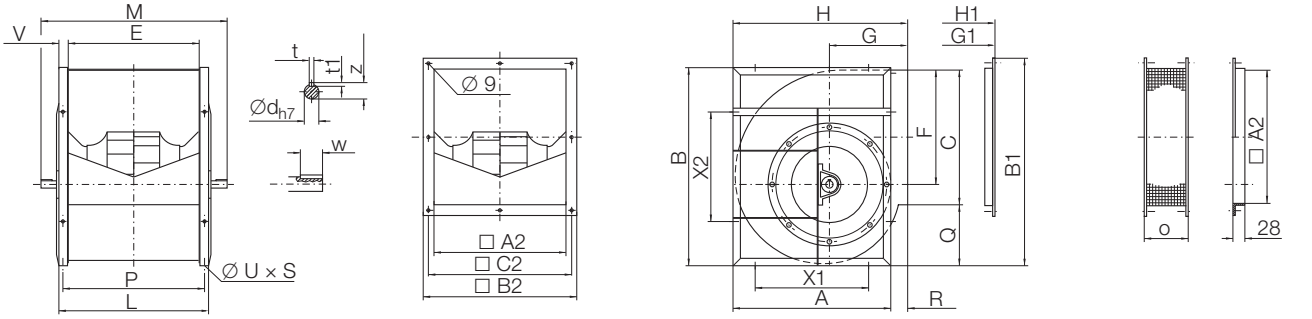


RDY	A	A2	B	B1	B2	C	C2	E	E2	F	G	G1	H	H1	L	M	O	P	Q	R	V	X1	X2	t	t1	w	z	Ød	U×S
0710	1050	898	1303	1324	954	898	928	898	200	765	485	488	1117	1120	998	1255	165	948	398	67	50	630	630	14	9	90	53,5	50	17×22

RDY K-0200/-1000

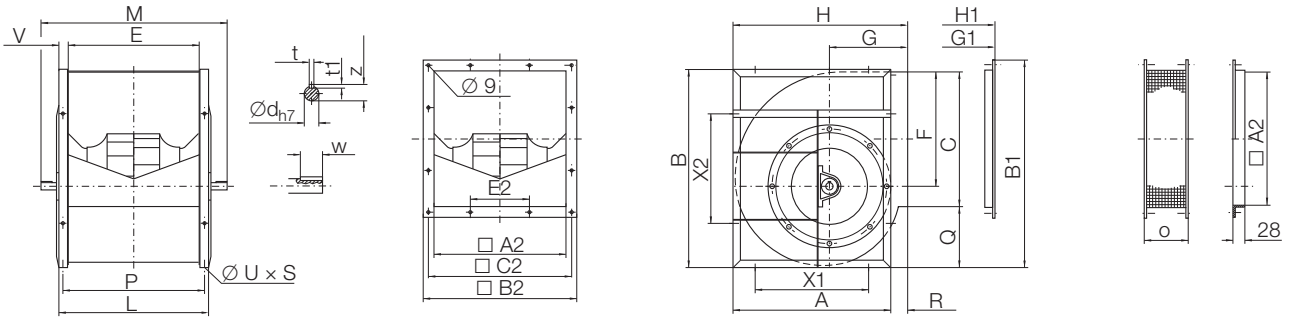
Dimensions in mm, subject to change without prior notice.

RDY K-0200/-0355



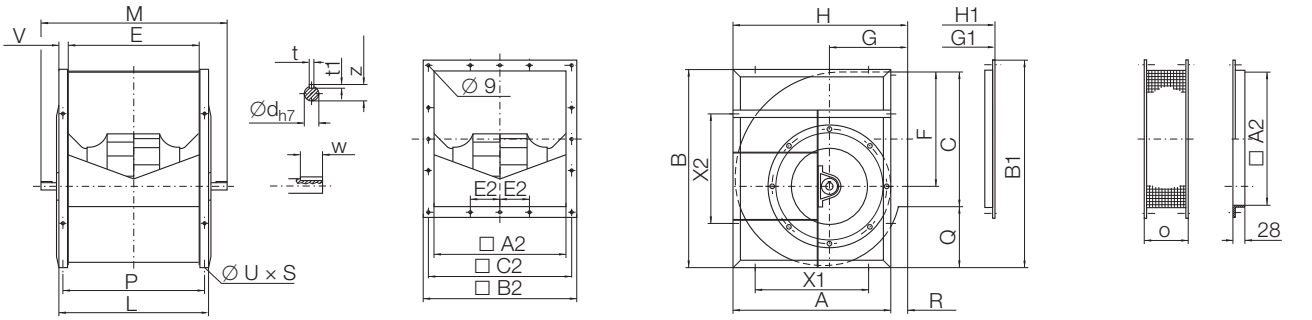
RDY	A	A2	B	B1	B2	C	C2	E	F	G	G1	H	H1	L	M	O	P	Q	R	V	X1	X2	t	t1	w	z	Ød	U×S
0200	306	256	370	394	312	256	286	256	215	164	167	343	346	306	420	165	286	110	37	25	224	224	6	6	30	22,5	20	11×16
0225	345	288	415	439	344	288	318	288	243	180	183	382	385	338	450	165	318	123	37	25	224	224	6	6	30	22,5	20	11×16
0250	381	322	461	485	378	322	352	322	270	195	198	419	422	372	515	165	352	135	38	25	224	224	8	7	40	28	25	11×16
0280	429	361	518	541	417	361	391	361	302	215	218	466	469	421	580	165	391	152	37	30	280	280	8	7	40	33	30	13×18
0315	480	404	578	602	460	404	434	404	340	236	239	518	521	464	625	165	434	170	38	30	280	280	8	7	40	33	30	13×18
0355	544	453	655	677	509	453	483	451	383	261	264	578	581	531	685	165	493	196	34	40	355	355	10	8	50	38	35	13×18

RDY K-0400/-0630



RDY	A	A2	B	B1	B2	C	C2	E	E2	F	G	G1	H	H1	L	M	O	P	Q	R	V	X1	X2	t	t1	w	z	Ød	U×S
0400	613	507	736	759	563	507	537	507	200	432	290	293	651	654	587	750	165	547	224	38	40	355	355	10	8	50	38	35	13×18
0450	679	569	827	849	625	569	599	569	200	486	322	325	726	729	649	850	165	619	252	45	40	530	530	12	8	70	43	40	13×18
0500	748	638	918	940	694	638	668	638	250	538	352	355	800	803	718	920	165	688	274	50	40	530	530	12	8	70	43	40	13×18
0560	839	715	1030	1050	771	715	745	715	250	603	390	393	893	896	815	1070	165	765	307	54	50	530	530	14	9	90	53,5	50	13×18
0630	940	801	1157	1178	857	801	831	801	300	679	434	437	999	1002	901	1155	165	851	349	59	50	530	530	14	9	90	53,5	50	13×18

RDY K-0710/-1000

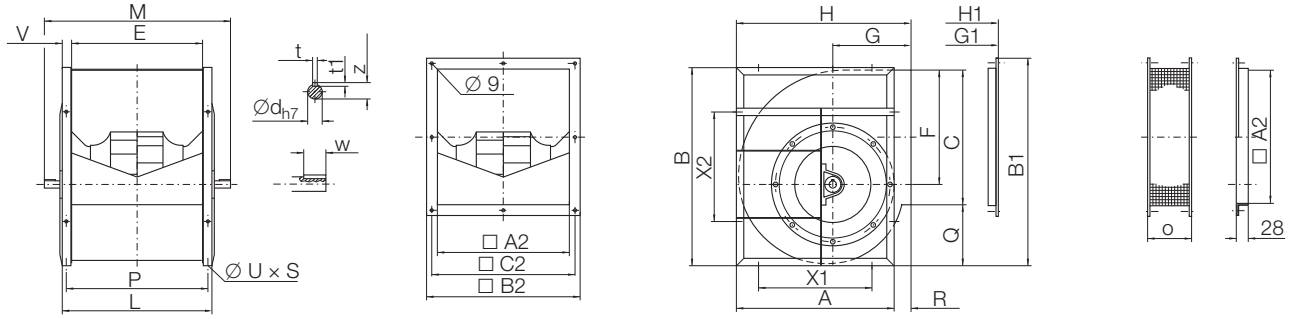


RDY	A	A2	B	B1	B2	C	C2	E	E2	F	G	G1	H	H1	L	M	O	P	Q	R	V	X1	X2	t	t1	w	z	Ød	U×S
0710	1050	898	1303	1324	954	898	928	898	200	765	485	488	1121	1124	998	1255	165	948	398	71	50	630	630	14	9	90	53,5	50	17×22
0800	1181	1007	1468	1488	1063	1007	1037	1007	250	862	540	543	1255	1258	1107	1360	165	1057	453	74	50	710	710	14	9	90	53,5	50	17×22
0900	1319	1130	1648	1668	1186	1130	1160	1130	300	971	604	607	1408	1411	1230	1520	165	1180	510	89	50	800	800	18	11	90	64	60	17×22
1000	1451	1267	1810	1828	1323	1267	1297	1267	350	1066	657	660	1541	1544	1367	1660	165	1217	533	90	50	900	900	18	11	90	64	60	17×22

RDY K1-0315/-0900

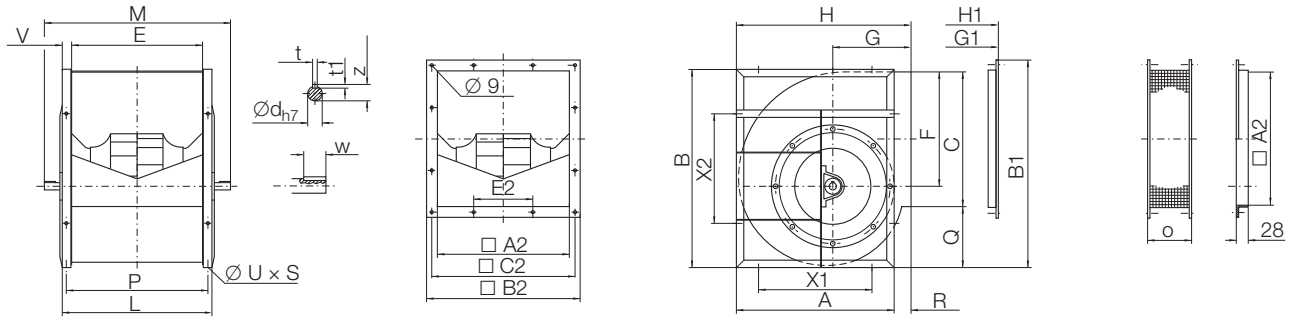
Dimensions in mm, subject to change without prior notice.

RDY K1-0315/-0355



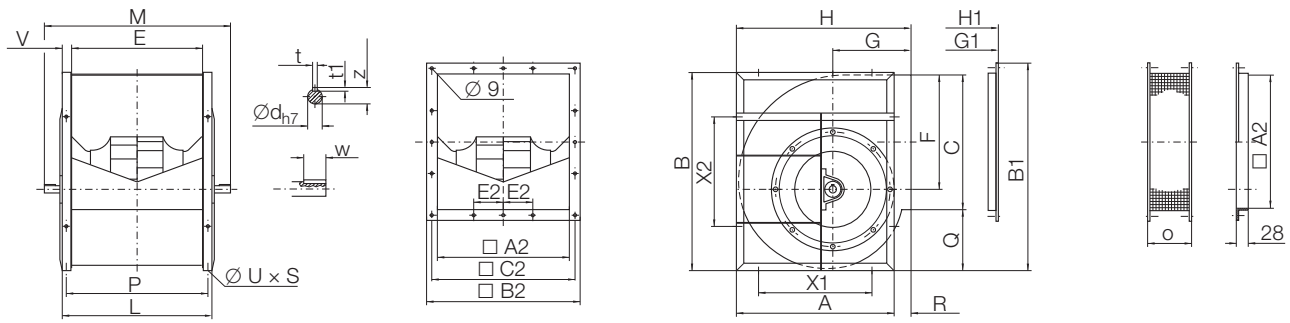
RDY	A	A2	B	B1	B2	C	C2	E	F	G	G1	H	H1	L	M	O	P	Q	R	V	X1	X2	t	t1	w	z	Ød	U×S
0315	480	404	578	603	460	404	434	404	340	236	239	518	521	464	625	165	434	171	38	30	280	280	8	7	40	33	30	13×18
0355	544	453	655	677	509	453	483	451	383	261	264	578	581	531	685	165	493	196	34	40	355	355	10	8	50	38	35	13×18

RDY K1-0400/-0630



RDY	A	A2	B	B1	B2	C	C2	E	E2	F	G	G1	H	H1	L	M	O	P	Q	R	V	X1	X2	t	t1	w	z	Ød	U×S
0400	613	507	736	759	563	507	537	507	200	432	290	293	651	654	587	750	165	547	224	38	40	355	355	10	8	50	38	35	13×18
0450	679	569	827	849	625	569	599	569	200	486	322	325	726	729	649	850	165	619	252	48	40	530	530	12	8	70	43	40	13×18
0500	748	638	918	940	694	638	668	638	250	538	352	355	800	803	718	920	165	688	274	53	40	530	530	12	8	70	43	40	13×18
0560	839	715	1030	1050	771	715	745	715	250	603	390	393	893	896	815	1070	165	765	307	54	50	530	530	14	9	90	53,5	50	13×18
0630	940	801	1157	1178	857	801	831	801	300	679	434	437	999	1002	901	1155	165	851	349	59	50	530	530	14	9	90	53,5	50	13×18

RDY K1-0710/-0900

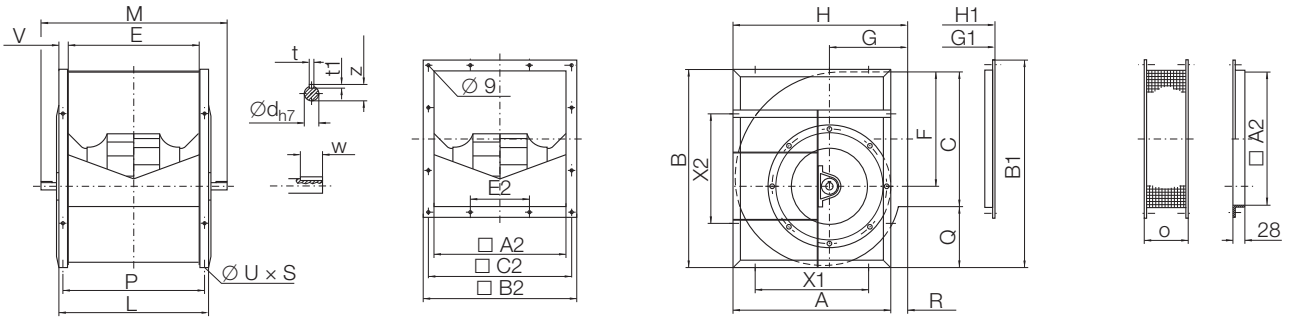


RDY	A	A2	B	B1	B2	C	C2	E	E2	F	G	G1	H	H1	L	M	O	P	Q	R	V	X1	X2	t	t1	w	z	Ød	U×S
0710	1050	898	1303	1324	954	898	928	898	200	765	485	488	1121	1124	998	1340	165	948	398	71	50	630	630	18	11	90	64	60	17×22
0800	1181	1007	1468	1488	1063	1007	1037	1007	250	862	540	543	1255	1258	1107	1450	165	1057	453	74	50	710	710	18	11	90	64	60	17×22
0900	1319	1130	1648	1668	1186	1130	1160	1130	300	971	604	607	1408	1411	1230	1520	165	1180	510	89	50	800	800	18	11	90	64	60	17×22

RDY K2-0500/-1000

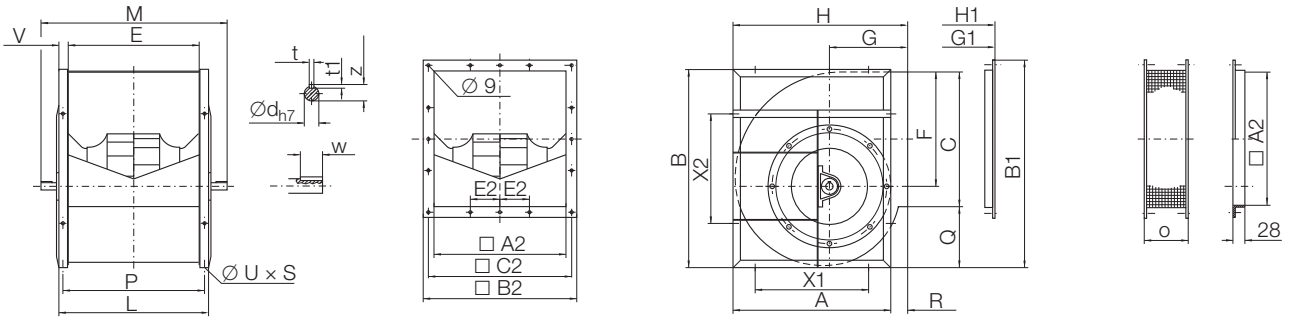
Dimensions in mm, subject to change without prior notice.

RDY K2-0500/-0630



RDY	A	A2	B	B1	B2	C	C2	E	E2	F	G	G1	H	H1	L	M	O	P	Q	R	V	X1	X2	t	t1	w	z	Ød	U×S
0500	748	638	918	941	694	638	668	638	250	538	352	355	800	803	718	960	165	688	275	50	40	530	530	14	9	90	53,5	50	13×18
0560	839	715	1030	1050	771	715	745	715	250	603	390	393	893	896	815	1130	165	765	307	54	50	530	530	14	9	90	53,5	50	13×18
0630	940	801	1157	1178	857	801	831	801	300	679	434	437	999	1002	901	1215	165	851	349	59	50	530	530	14	9	90	53,5	50	13×18

RDY K2-0710/-1000



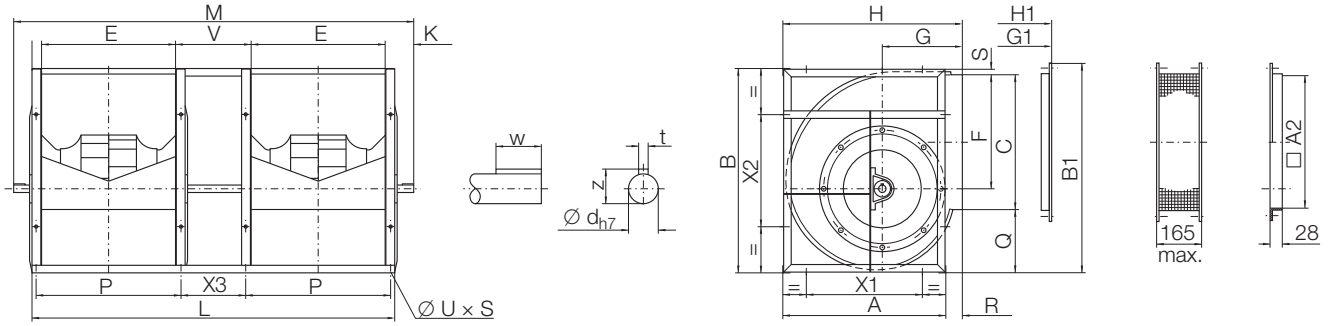
RDY	A	A2	B	B1	B2	C	C2	E	E2	F	G	G1	H	H1	L	M	O	P	Q	R	V	X1	X2	t	t1	w	z	Ød	U×S
0710	1050	898	1303	1324	954	898	928	898	200	765	485	488	1121	1124	998	1340	165	948	398	71	50	630	630	18	11	90	64	60	17×22
0800	1181	1007	1468	1488	1063	1007	1037	1007	250	862	540	543	1255	1258	1107	1450	165	1057	453	79	50	710	710	18	11	90	64	60	17×22
0900	1319	1130	1648	1668	1186	1130	1160	1130	300	971	604	607	1408	1411	1230	1570	165	1180	510	89	50	800	800	18	11	90	64	60	17×22
1000	1451	1267	1810	1828	1323	1267	1297	1267	350	1066	657	660	1541	1544	1367	1700	165	1317	533	90	50	900	900	18	11	90	64	60	17×22

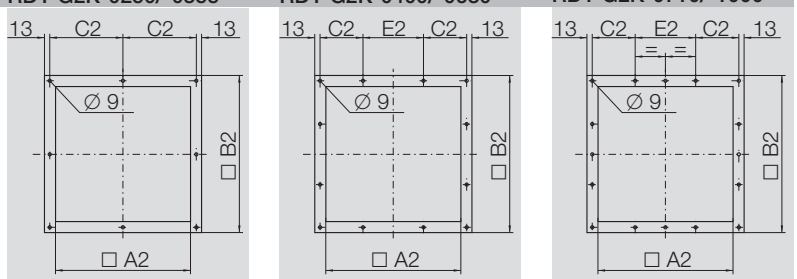
Notes

RDY G2K

Dimensions in mm, subject to change.

RDY G2K-0250/-1000





RDY G2K-0250/-1000

	A	B	C	E	F	G	H	L	M	P
0250	390	474	322	322	268	195	427	943	1085	352
0280	439	530	361	361	302	215	474	1062	1220	391
0315	490	592	403	404	338	236	526	1182	1340	434
0355	551	669	450	453	381	261	588	1341	1505	493
0400	618	754	507	507	432	290	659	1494	1660	547
0450	691	845	571	569	487	322	735	1668	1870	619
0500	760	935	641	638	541	352	809	1856	2060	688
0560	855	1050	716	715	606	390	903	2090	2330	765
0630	940	1157	801	801	679	434	1005	2332	2576	851
0710	1050	1303	898	898	765	485	1121	2606	2898	948
0800	1181	1468	1007	1007	862	540	1255	2914	3257	1057
0900	1319	1648	1130	1130	971	604	1408	3260	3550	1180
1000	1451	1810	1267	1267	1066	657	1541	3634	3927	1317

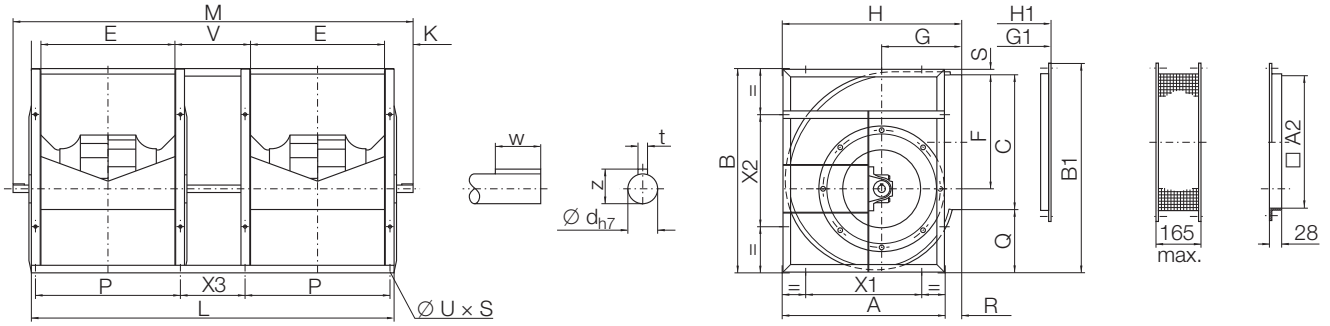
	Q	R	S	V	K	X1	X2	X3	t	w
0250	140	37	10	250	71	224	224	220	8	40
0280	158	35	9	280	79	280	280	250	8	40
0315	177	36	10	315	79	280	280	285	8	40
0355	204	37	13	355	82	355	355	315	10	50
0400	234	41	11	400	83	355	355	360	10	50
0450	261	44	11	450	101	530	530	400	12	70
0500	282	49	10	500	102	530	530	450	12	70
0560	319	48	13	560	120	530	530	510	14	90
0630	349	59	7	630	122	530	530	580	14	90
0710	398	71	7	710	146	630	630	660	18	91
0800	453	74	8	800	172	710	710	750	18	91
0900	510	89	8	900	145	800	800	850	18	91
1000	534	90	9	1000	147	900	900	950	18	91

	z	ød	u × s	B1	H1	G1	A2	B2	C2	E2
0250	28	25h7	11 × 16	490	430	198	322	378	176.0	–
0280	33	30h7	13 × 18	547	477	218	361	417	195.5	–
0315	33	30h7	13 × 18	608	529	239	404	460	217.0	–
0355	38	35h7	13 × 18	682	591	264	453	509	241.5	–
0400	38	35h7	13 × 18	769	662	293	507	563	168.5	200
0450	43	40h7	13 × 18	860	738	325	569	625	199.5	200
0500	43	40h7	13 × 18	951	812	355	638	694	209.0	250
0560	53.5	50h7	13 × 18	1063	906	393	715	771	247.5	250
0630	53.5	50h7	13 × 18	1179	1008	437	801	857	265.5	300
0710	64	60h7	17 × 22	1391	1124	488	898	954	264.0	400
0800	64	60h7	17 × 22	1561	1258	543	1007	1063	268.5	500
0900	64	60h7	17 × 22	1748	1411	607	1130	1186	280.0	600
1000	64	60h7	17 × 22	1930	1544	660	1267	1323	298.5	700

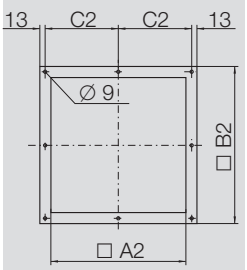
RDY G2K2

Dimensions in mm, subject to change.

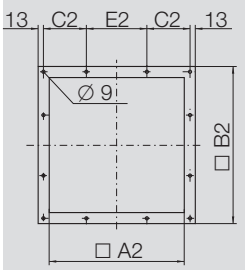
RDY G2K2-0250/-1000



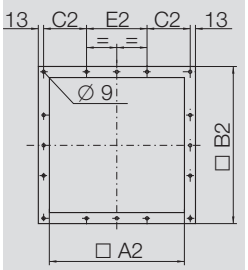
RDY G2K2-0250/-0355



RDY G2K2-0400/-0630



RDY G2K2-0710/-1000



RDY G2K2-0250/-1000

	A	B	C	E	F	G	H	L	M	P
0250	390	474	322	322	268	195	427	943	1085	352
0280	439	530	361	361	302	215	474	1062	1230	391
0315	490	592	403	404	338	236	526	1182	1400	434
0355	551	669	450	453	381	261	588	1341	1545	493
0400	618	754	507	507	432	290	659	1494	1800	547
0450	691	845	571	569	487	322	735	1668	1924	619
0500	760	935	641	638	541	352	809	1856	2146	688
0560	855	1050	716	715	606	390	903	2090	2380	765
0630	940	1157	801	801	679	434	1005	2332	2576	851
0710	1050	1303	898	898	765	485	1121	2606	2898	948
0800	1181	1468	1007	1007	862	540	1255	2914	3257	1057
0900	1319	1648	1130	1130	971	604	1408	3260	3550	1180
1000	1451	1810	1267	1267	1066	657	1541	3634	3927	1317

	Q	R	S	V	K	X1	X2	X3	t	w
0250	140	37	10	250	71	224	224	220	8	40
0280	158	35	9	280	84	280	280	250	10	50
0315	177	36	10	315	109	280	280	285	12	70
0355	204	37	13	355	102	355	355	315	12	70
0400	234	41	11	400	153	355	355	360	14	90
0450	261	44	11	450	128	530	530	400	14	90
0500	282	49	10	500	145	530	530	450	18	90
0560	319	48	13	560	145	530	530	510	18	90
0630	349	59	7	630	122	530	530	580	18	91
0710	398	71	7	710	146	630	630	660	18	91
0800	453	74	8	800	172	710	710	750	18	91
0900	510	89	8	900	145	800	800	850	18	91
1000	534	90	9	1000	147	900	900	950	18	91

	z	ød	u × s	B1	H1	G1	A2	B2	C2	E2
0250	33	30h7	11 × 16	490	430	198	322	378	176	–
0280	38	35h7	13 × 18	547	477	218	361	417	195.5	–
0315	43	40h7	13 × 18	608	529	239	404	460	217	–
0355	43	40h7	13 × 18	682	591	264	453	509	241.5	–
0400	53.5	50h7	13 × 18	769	662	293	507	563	168.5	200
0450	53.5	50h7	13 × 18	860	738	325	569	625	199.5	200
0500	64	60h7	13 × 18	951	812	355	638	694	209	250
0560	64	60h7	13 × 18	1063	906	393	715	771	247.5	250
0630	64	60h7	13 × 18	1179	1008	437	801	857	265.5	300
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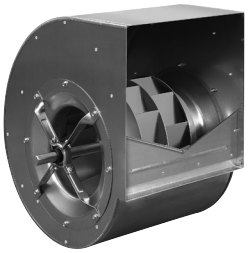
0800	64	60h7	17 × 22	1561	1258	543	1007	1063	268.5	500
0900	64	60h7	17 × 22	1748	1411	607	1130	1186	280.0	600
1000	64	60h7	17 × 22	1930	1544	660	1267	1323	298.5	700

RDY L-0180/-0560

Specifications



High performance centrifugal fan RDY L
Double inlet belt drive.
Lap jointed scroll of galvanised sheet steel assembled through Pittsburgh lockforming.
Multi-position feet and discharge flange as an option.
Centrifugal impeller with 8 backward inclined blades made of fibreglass reinforced polyamide (sizes 0180/-0225) or with 11 backward inclined blades made of sheet steel, welded and coated, balanced in according to ISO 1940.
Throat plate inclined to blade trasling edge.
Noise tested, maintenance free, self aligning radial insert ball bearings, mounted in pressed steel housing/strut assemblies with rubber interliners.
Performance data in according to DIN 24166 tolerance class 2 (sizes 0180/-0315) tolerance class 1 (sizes 0355/-0560).

Fan data

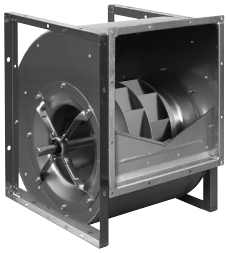
Fan type		.....	
Volume flow	q_V	.....	m^3/h
Total pressure increase	p_F	.....	Pa
Static pressure	p_{sF}	.....	Pa
Air density at fan inlet	ρ_1	.....	kg/m^3
Air medium temperature	t	.....	°C
Shaft power	P_a	.....	kW
Efficiency	(η_a)	.....	
Speed	N	.....	1/min
Sound power level (A weighted)	L_{WA}	.....	dB
Weight	m	.....	kg

Fittings / Accessories

- Multi-Position feet
- Discharge flange
- Discharge flex with flexible sleeve
- Inlet guard
- Discharge guard
- Shaft guard for free shaft end
- Matching flange
- Inspection door
- Drain plug R 1/8"
- Increase corrosion protection
- Volumeter
- Shaft made of stainless steel
- Nuts and bolts and fastening elements made of stainless steel
- Aluminium inlet cone
- Copper inlet cone

RDY R-0180/-0560
RDY R-0630/-0710

Specifications



High performance centrifugal fan RDY R / RDY R
Double inlet belt drive.
Lap jointed scroll of galvanised sheet steel assembled through Pittsburgh lockforming, discharge flange as an option.
Rectangular side frame of galvanised steel.
Centrifugal impeller with 8 backward inclined blades made of fibreglass reinforced polyamide (sizes 0180/-0225) or with 11 backward inclined blades made of sheet steel, welded and coated, balanced in according to ISO 1940.
Throat plate inclined to blade trasling edge.
Noise tested, maintenance free, self aligning radial insert ball bearings, mounted in pressed steel housing/strut assemblies with rubber interliners.
Performance data in according to DIN 24166 tolerance class 2 (sizes 0180/-0315) or tolerance class 1 (sizes 0355/-0710).

Fan data

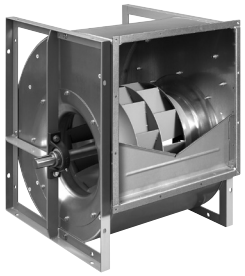
Fan type		.....	
Volume flow	q_V	.....	m^3/h
Total pressure increase	p_F	.....	Pa
Static pressure	p_{sF}	.....	Pa
Air density at fan inlet	ρ_1	.....	kg/m^3
Air medium temperature	t	.....	°C
Shaft power	P_a	.....	kW
Efficiency	(η_a)	.....	
Speed	N	.....	1/min
Sound power level (A weighted)	L_{WA}	.....	dB
Weight	m	.....	kg

Fittings / Accessories

- Multi-Position feet
- Discharge flange
- Discharge flex with flexible sleeve
- Inlet guard
- Discharge guard
- Shaft guard for free shaft end
- Matching flange
- Inspection door
- Drain plug R 1/8"
- Increase corrosion protection
- Volumeter
- Shaft made of stainless steel
- Nuts and bolts and fastening elements made of stainless steel
- Aluminium inlet cone
- Copper inlet cone, or equipped with a copper strip (from size 0630)

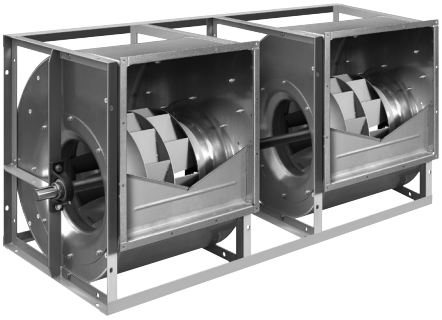
RDY K-0200/-0560
RDY K-0630/-1000
RDY G2K-0250/-0560
RDY G2K-0630/-1000

Specifications



High performance centrifugal fan RDY K / RDY K
Double inlet, belt drive.
Lap jointed scroll of galvanised sheet steel assembled through Pittsburgh lockforming, discharge flange as an option.
Welded heavy duty reinforced side frames, coated.
Centrifugal impeller with 8 backward inclined blades made of fibreglass reinforced polyamide (sizes 0200/-0225) or with 11 backward inclined blades made of sheet steel, welded and coated (sizes 0250/-1000), balanced in according to ISO 1940.
Throat plate inclined to blade trasling edge.
Monobloc pedestal cast iron bearings with relubrication nipple, mounted on a robust pedestal, integrated, self aligning radial insert ball bearings fixed by eccentric clamp.
Performance data in according to DIN 24166 tolerance class 2 (sizes 0200/-0315) or tolerance class 1 (sizes 0355/-1000).

Twin fan arrangement



Twin fan arrangement
High performance centrifugal fanRDY G2K/RDY G2K
The two single fans RDY K or RDY K are fitted together to a robust assembly by means of 3 crossbars. Both impellers are fitted on a common shaft supported by 3 bearings.(sizes 0250/-0630) or the fans have separated shafts being connected by a flexible coupling (sizes 0710/-1000).

Fan data

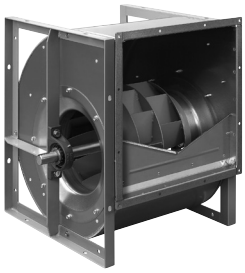
Fan type		.....	
Volume flow	q_V	.....	m^3/h
Total pressure increase	p_F	.....	Pa
Static pressure	p_{sF}	.....	Pa
Air density at fan inlet	ρ_1	.....	kg/m^3
Air medium temperature	t	.....	°C
Shaft power	P_a	.....	kW
Efficiency	(η_a)	.....	
Speed	N	.....	1/min
Sound power level (A weighted)	L_{WA}	.....	dB
Weight	m	.....	kg

Fittings / Accessories

- Discharge flange
- Discharge flex with flexible sleeve
- Inlet guard
- Discharge guard
- Shaft guard for free shaft end
- Matching flange
- Inspection door
- Drain plug R 1/8"
- Reinforcing side frame hot dip galvanised
- Increase corrosion protection
- Volumeter
- Shaft made of stainless steel
- Nuts and bolts and fastening elements made of stainless steel
- Aluminium inlet cone
- Copper inlet cone, or equipped with a copper strip (as from size 0630)

RDY K1-0315/-0560
RDY K1-0630/-0900

Specifications



High performance centrifugal fan RDY K1 / RDY K1
Double inlet, belt drive.
Lap jointed scroll of galvanised sheet steel assembled through Pittsburgh lockforming, discharge flange as an option.
Welded heavy duty reinforced side frames, coated.
Centrifugal impeller with 11 backward inclined blades made of sheet steel, welded and coated, balanced in according to ISO 1940.
Throat plate inclined to blade trasling edge.
Monobloc pedestal cast iron bearings with relubrication nipple, mounted on a robust pedestal, integrated, self aligning radial insert ball bearings fixed by conical sleeve.
Performance data in according to DIN 24166 tolerance class 2 (size 0315) or tolerance class 1 (sizes 0355/-1000).

Fan data

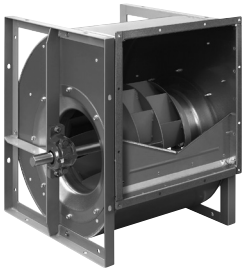
Fan type		.....	
Volume flow	q_V	.....	m^3/h
Total pressure increase	p_F	.....	Pa
Static pressure	p_{sF}	.....	Pa
Air density at fan inlet	ρ_1	.....	kg/m^3
Air medium temperature	t	.....	°C
Shaft power	P_a	.....	kW
Efficiency	(η_a)	.....	
Speed	N	.....	1/min
Sound power level (A weighted)	L_{WA}	.....	dB
Weight	m	.....	kg

Fittings / Accessories

- Discharge flange
- Discharge flex with flexible sleeve
- Inlet guard
- Discharge guard
- Shaft guard for free shaft end
- Matching flange
- Inspection door
- Drain plug R 1/8"
- Reinforcing side frame hot dip galvanised
- Increase corrosion protection
- Volumeter
- Shaft made of stainless steel
- Nuts and bolts and fastening elements made of stainless steel
- Aluminium inlet cone
- Copper inlet cone, or equipped with a copper strip (from size 0630)

RDY K2-0500/-0560
RDY K2-0630/-1000

Specifications



High performance centrifugal fan RDY K2 / RDY K2
Double inlet belt drive.
Lap jointed scroll of galvanised sheet steel assembled through Pittsburgh lockforming, discharge flange as an option.
Welded heavy duty reinforced side frames, coated.
Centrifugal impeller with 11 backward inclined blades made of sheet steel, welded and coated, balanced in according to ISO 1940.
Throat plate inclined to blade trasling edge.

Size 0500
Monobloc pedestal cast iron bearings with relubrication nipple, mounted on a robust pedestal, integrated, self aligning radial insert ball bearings fixed by conical sleeve
Sizes 0560 up to 0800
Split pedestal cast iron bearings with relubrication nipple, mounted on a robust pedestal, integrated self aligning double row bearings fixed by conical sleeve, lubricated with long life high performance grease.
Sizes 0900 and 1000
Single-piece piller blocks with relubrication nipple, mounted on a robust pedestal, integrated double row, self aligning roller bearings fixed by conical sleeve, lubricated with long life high performance grease.

Performance data in according to DIN 24166 tolerance class 1.

Fan data

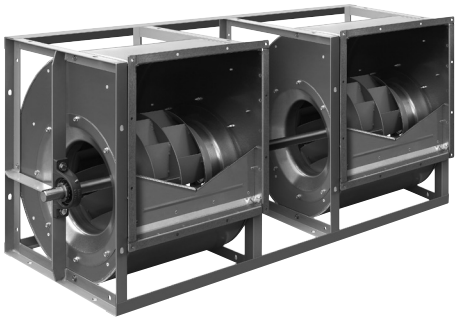
Fan type		.....	
Volume flow	q_V	.....	m^3/h
Total pressure increase	p_F	.....	Pa
Static pressure	p_{sF}	.....	Pa
Air density at fan inlet	ρ_1	.....	kg/m^3
Air medium temperature	t	.....	°C
Shaft power	P_a	.....	kW
Efficiency	(η_a)	.....	
Speed	N	.....	1/min
Sound power level (A weighted)	L_{WA}	.....	dB
Weight	m	.....	kg

Fittings / Accessories

- Discharge flange
- Discharge flex with flexible sleeve
- Inlet guard
- Discharge guard
- Shaft guard for free shaft end
- Matching flange
- Inspection door
- Drain plug R 1/8"
- Reinforcing side frame hot dip galvanised
- Increase corrosion protection
- Volumeter
- Threaded hole for measurement of shock impulse (sizes 0560 up to 1000)
- Shaft made of stainless steel
- Nuts and bolts and fastening elements made of stainless steel
- Aluminium inlet cone
- Copper inlet cone, or equipped with a copper strip (from size 0630)

RDY G2K2-0250/-0560
RDY G2K2-0630/-1000

Specifications



Centrifugal twin fan RDY G2K2 / RDY G2K2
Double inlet belt drive.
Lap jointed scroll of galvanised sheet steel assembled through Pittsburgh lockforming, fitted together to a robust assembly by means of 3 crossbars, discharge flange as an option.
Welded heavy duty reinforced side frames, coated.
Both impellers, with 11 backward inclined blades made of sheet steel, welded and coated, are fitted on a common shaft supported by 3 bearings (sizes 0250/-0630) or the fans have separated shafts being connected by an elastic coupling (sizes 0710/-1000), balanced in according to ISO 1940.
Throat plate inclined to blade trasling edge.

Sizes 0250 up to 0630
Single piece cast iron block housing with relubrication nipple, mounted on a robust pedestal, integrated, maintenance free, self aligning radial insert ball bearings fixed by eccentric clamp.
Sizes 0710 up to 1000
Split pedestal cast iron block housing with relubrication nipple, mounted on a robust pedestal,
outside bearings: integrated self aligning double row roller bearings, fixed by conical tightening sleeve, lubricated with long life high performance grease.
inside bearings: integrated single row ball bearings, fixed by eccentric clamp, lubricated with long life high performance grease.

Performance data in according to DIN 24166 tolerance class 2 (sizes 0250/-0315) or to tolerance class 1 (Sizes 0355/-1000).

Fan data

Fan type		.....	
Volume flow	q_V	.....	m^3/h
Total pressure increase	p_F	.....	Pa
Static pressure	p_{sF}	.....	Pa
Air density at fan inlet	ρ_1	.....	kg/m^3
Air medium temperature	t	.....	°C
Shaft power	P_a	.....	kW
Efficiency	(η_a)	.....	
Speed	N	.....	1/min
Sound power level (A weighted)	L_{WA}	.....	dB
Weight	m	.....	kg

Fittings / Accessories

- Discharge flange
- Discharge flex with flexible sleeve
- Inlet guard
- Discharge guard
- Shaft guard for free shaft end
- Matching flange
- Inspection door
- Drain plug R 1/8"
- Reinforcing side frame hot dip galvanised
- Increase corrosion protection
- Volumeter
- Threaded hole for measurement of shock impulse (sizes 0560 up to 1000)
- Shaft made of stainless steel
- Nuts and bolts and fastening elements made of stainless steel
- Aluminium inlet cone
- Copper inlet cone, or equipped with a copper strip (from size 0630)

Notes

Notes

Nicotra Gebhardt worldwide

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