

**SWISS
ROTORS**



SR-FI-A

Aluminum Fan Impellers

225-560 mm
for **NEMA & IEC Motors**



**Backward Curved
Single Inlet, Single Width**

Edition in Metric Units

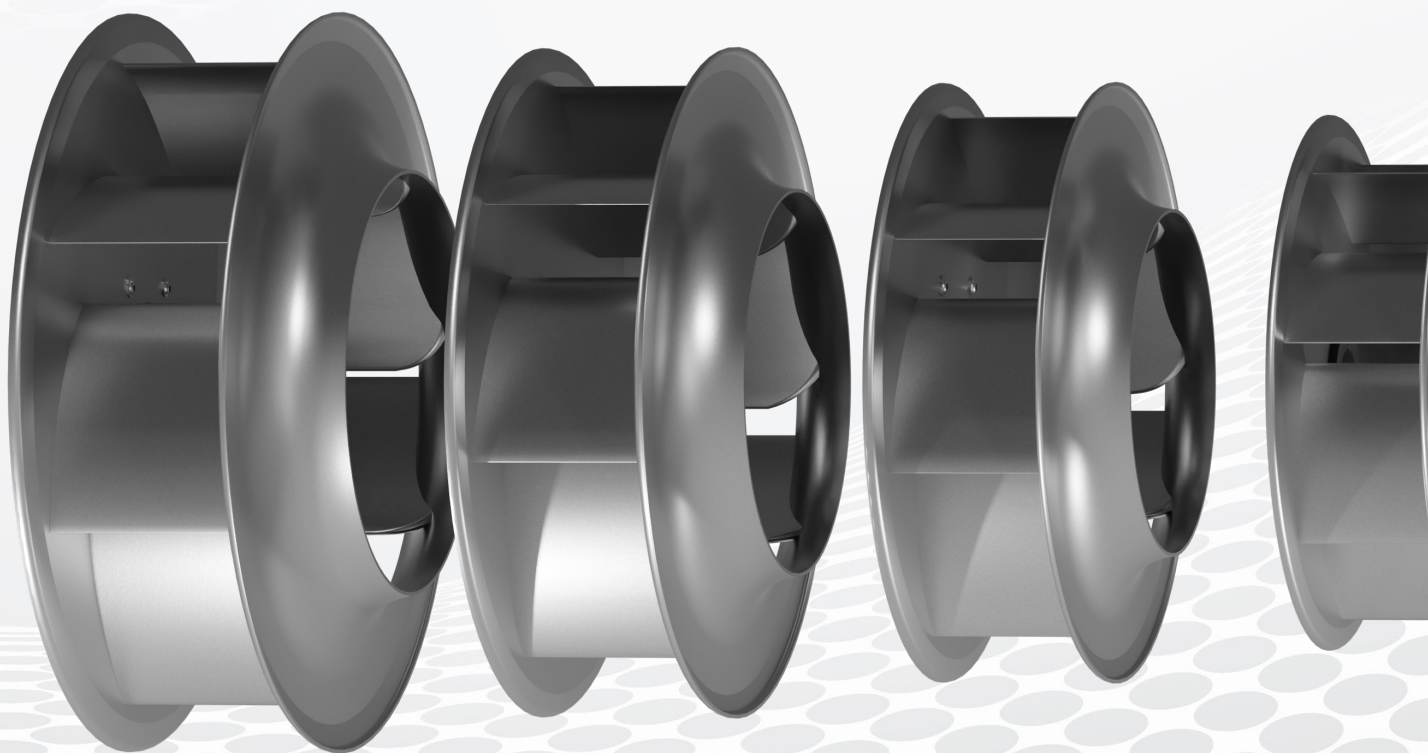
SWISS
ROTORS



SR-FI-A

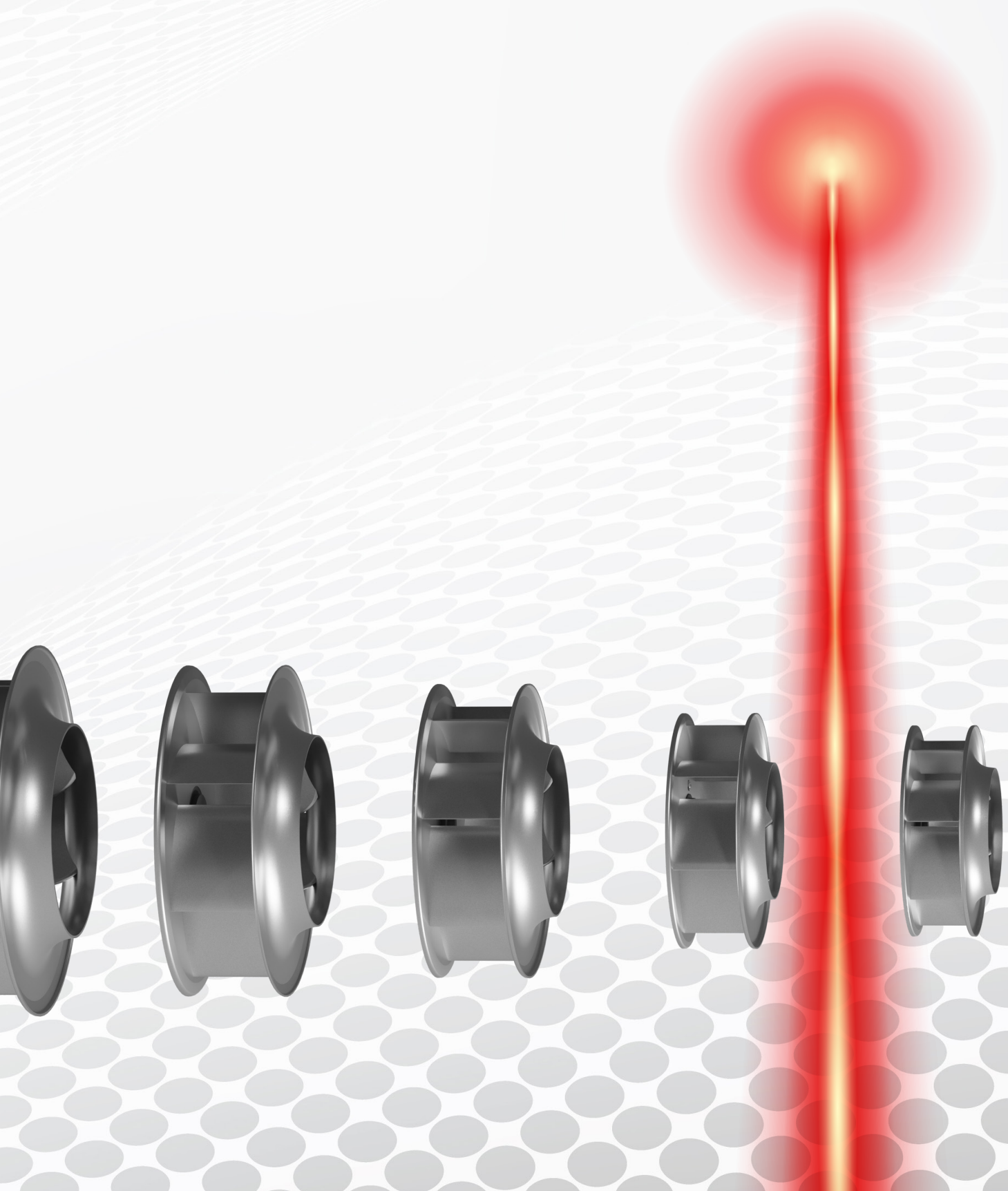
...is a range of **Backward Curved, Single Inlet, Single Width Fan Impellers** made based on the latest technological solutions.

Thanks to this solution, we obtained welds connecting the fan plates with blades with a uniform structure and full repeatability of shape.



Laser Welded

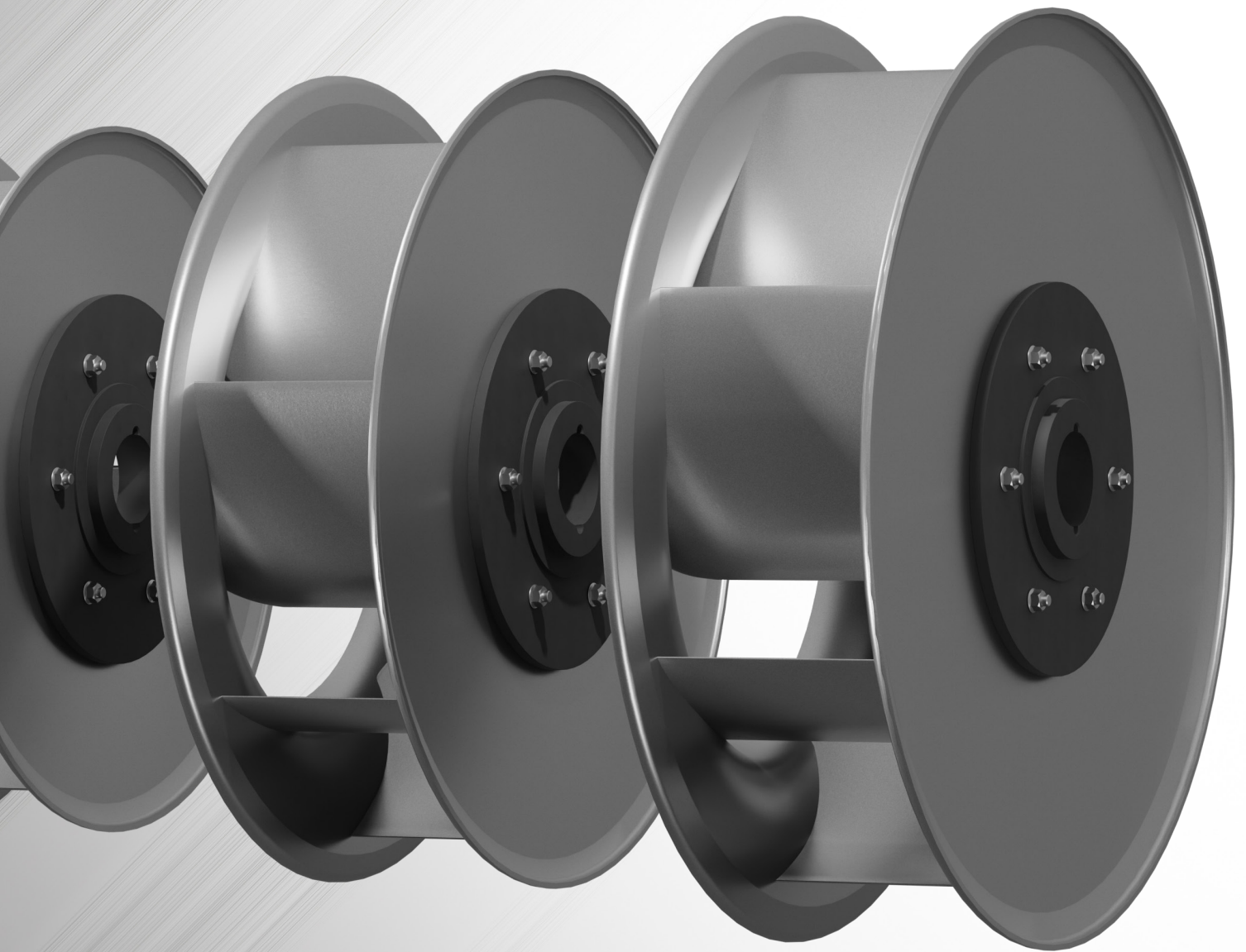
Aluminum Fan Impellers





SR-FI-A

Aluminum Fan Impellers



Specification

Type: Radial, Backward-curved, Single Inlet

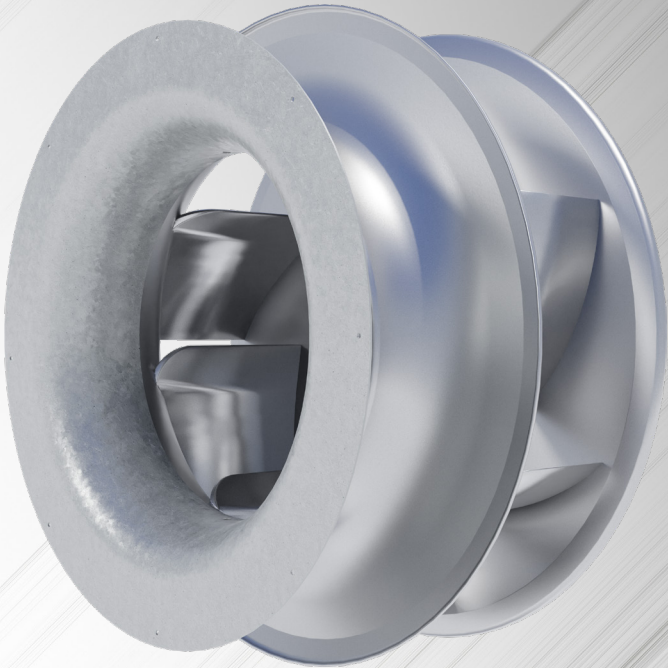
Static efficiency: up to 73%

Material: High Performance Aluminum (A)

Balance quality grade:

G 6,3 (ISO 1940-1)

BV-3 (ANSI S2.19-1989)



SR-FI-A7-225

6



SR-FI-A7-250

8



SR-FI-A7-315

10



SR-FI-A7-355

12



SR-FI-A7-400

14



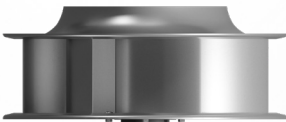
SR-FI-A7-450

16



SR-FI-A7-500

18



SR-FI-A7-560

20

SR-FI-##-###-####-#-####

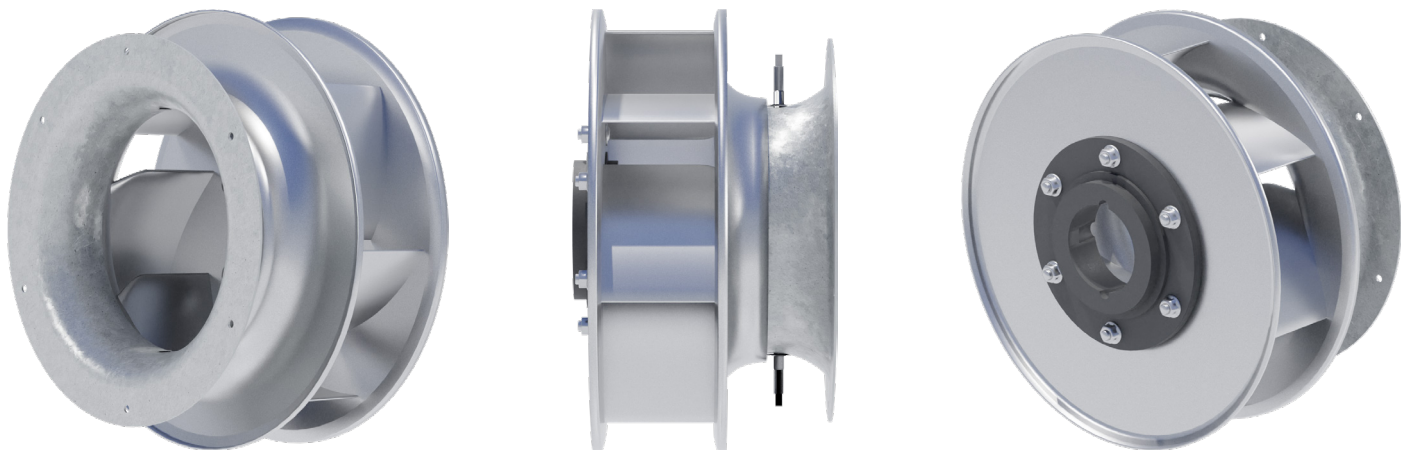
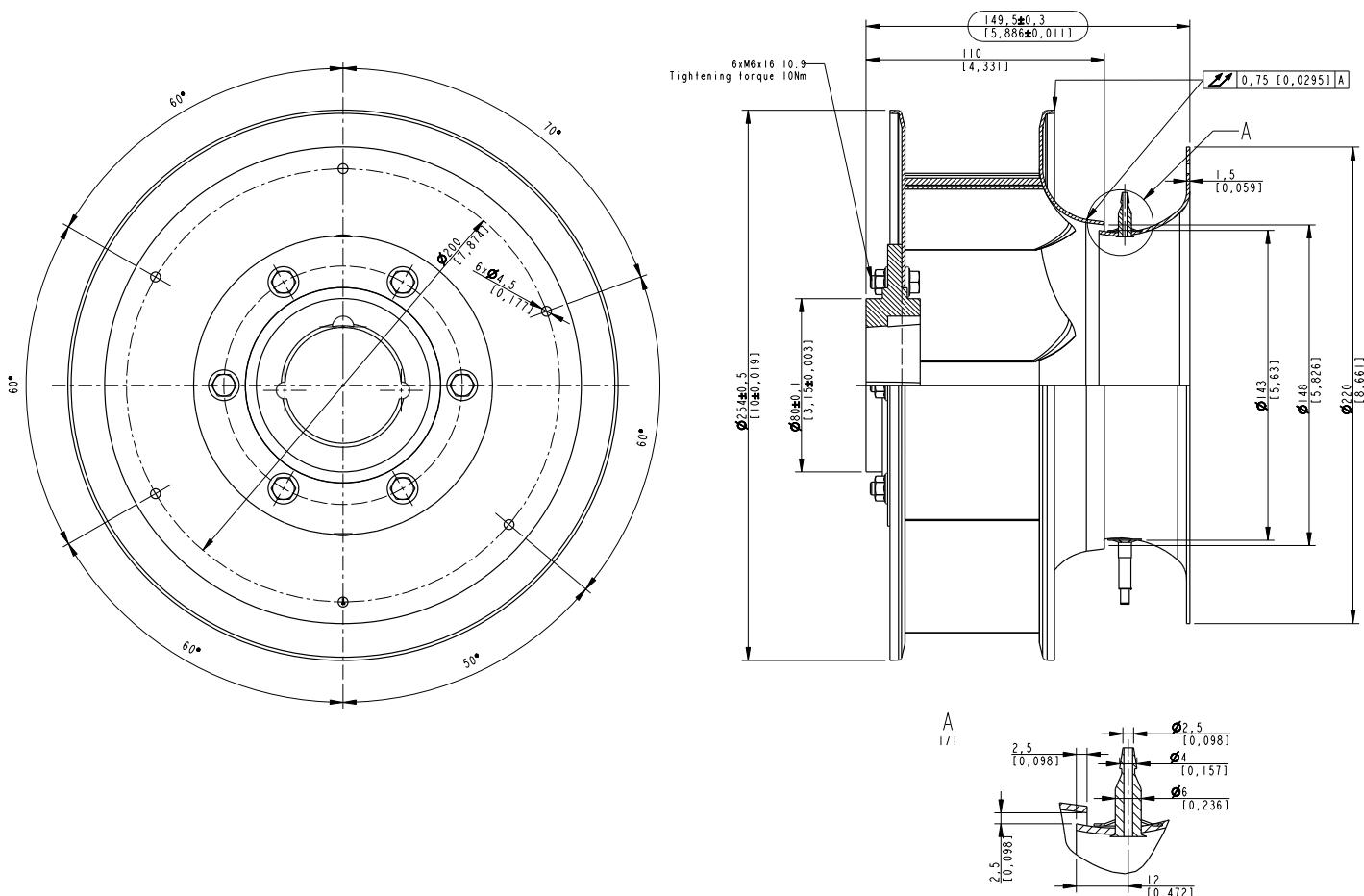
Quick selection guide

22

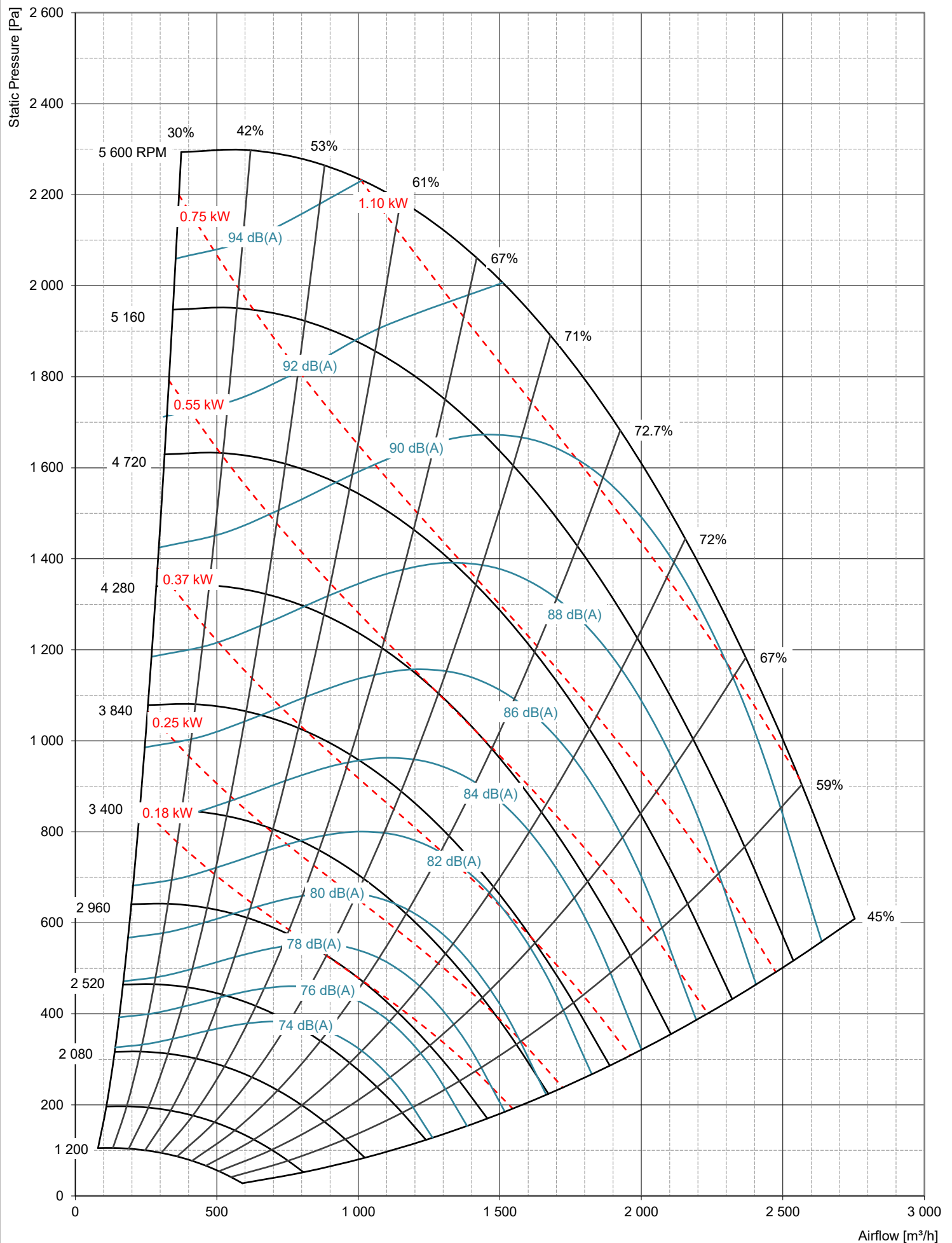
General specification

Fan Impeller Model	SR-FI-A7-225
Fan Impeller Size	225 mm
Impeller material	Aluminum
Blade design / No of blades	Aerofoil / 7
Installation/Working position	Horizontal / Vertical shaft
Minimum airflow	80 m³/h
Maximum airflow	2 754 m³/h
Maximum static pressure	2 298 Pa

Maximum rated revolutions	5 600 RPM
Spinning direction	Clockwise, wiewed from air inlet
Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Inlet Funnel Material	Hot-dip galvanized steel
Static pressure K-factor	47.5
Number of static pressure probes	2
Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
System Mass (Impeller + inlet funnel)	2.15 kg

Apperance

Dimensions


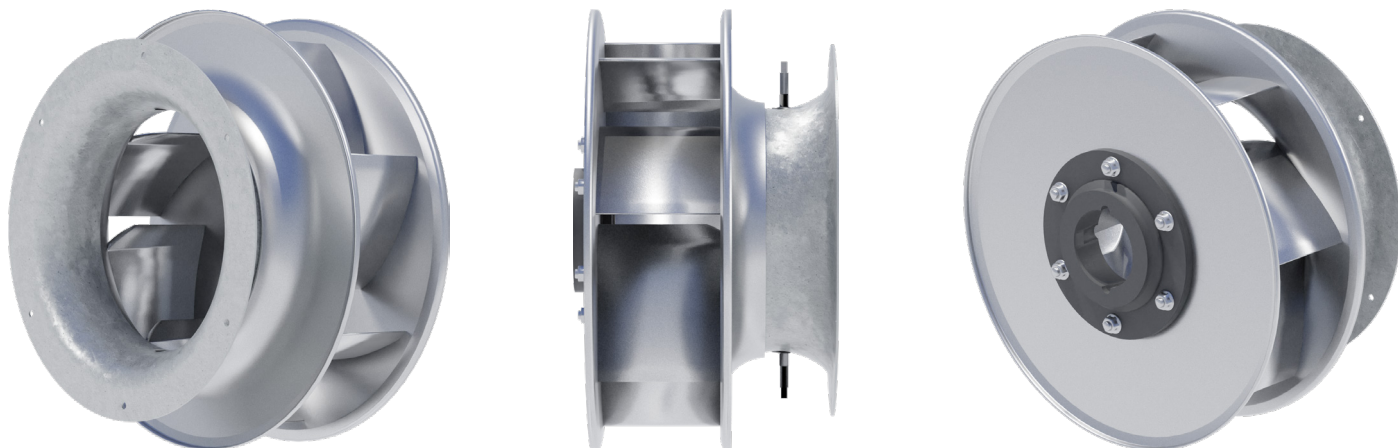
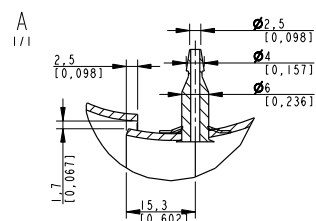
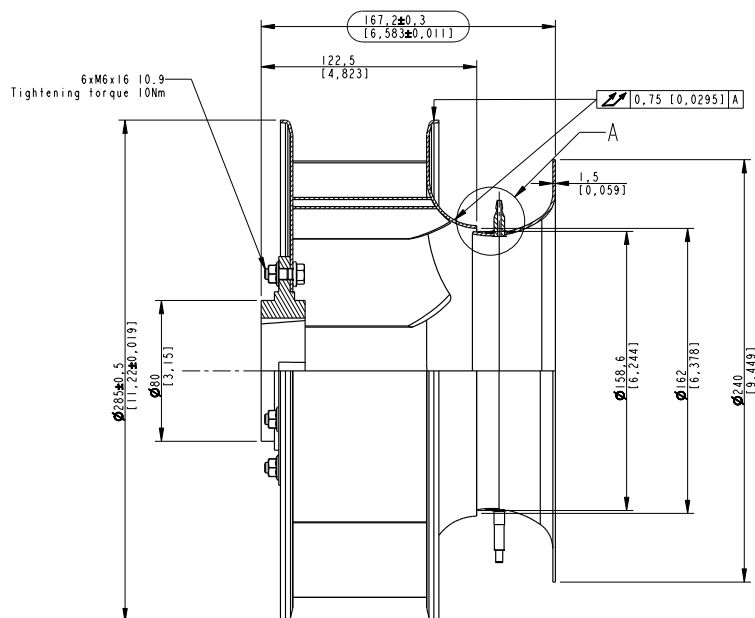
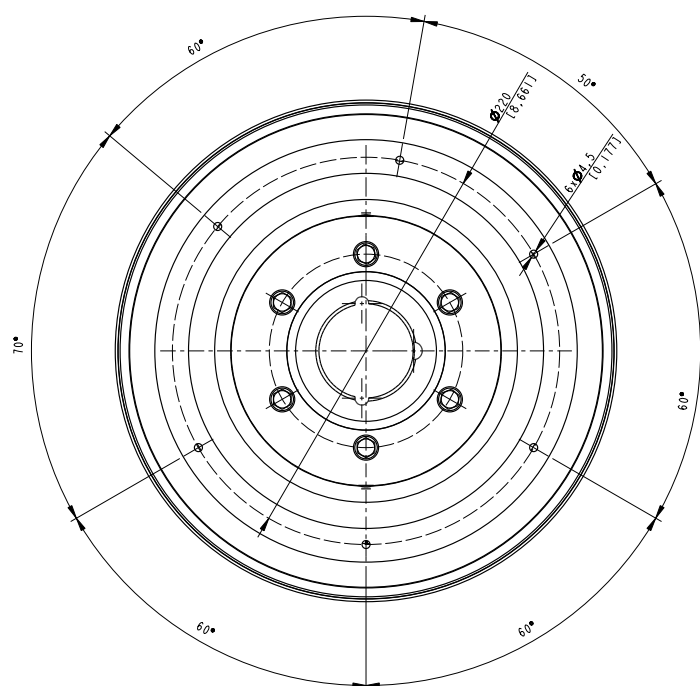
Performance Chart



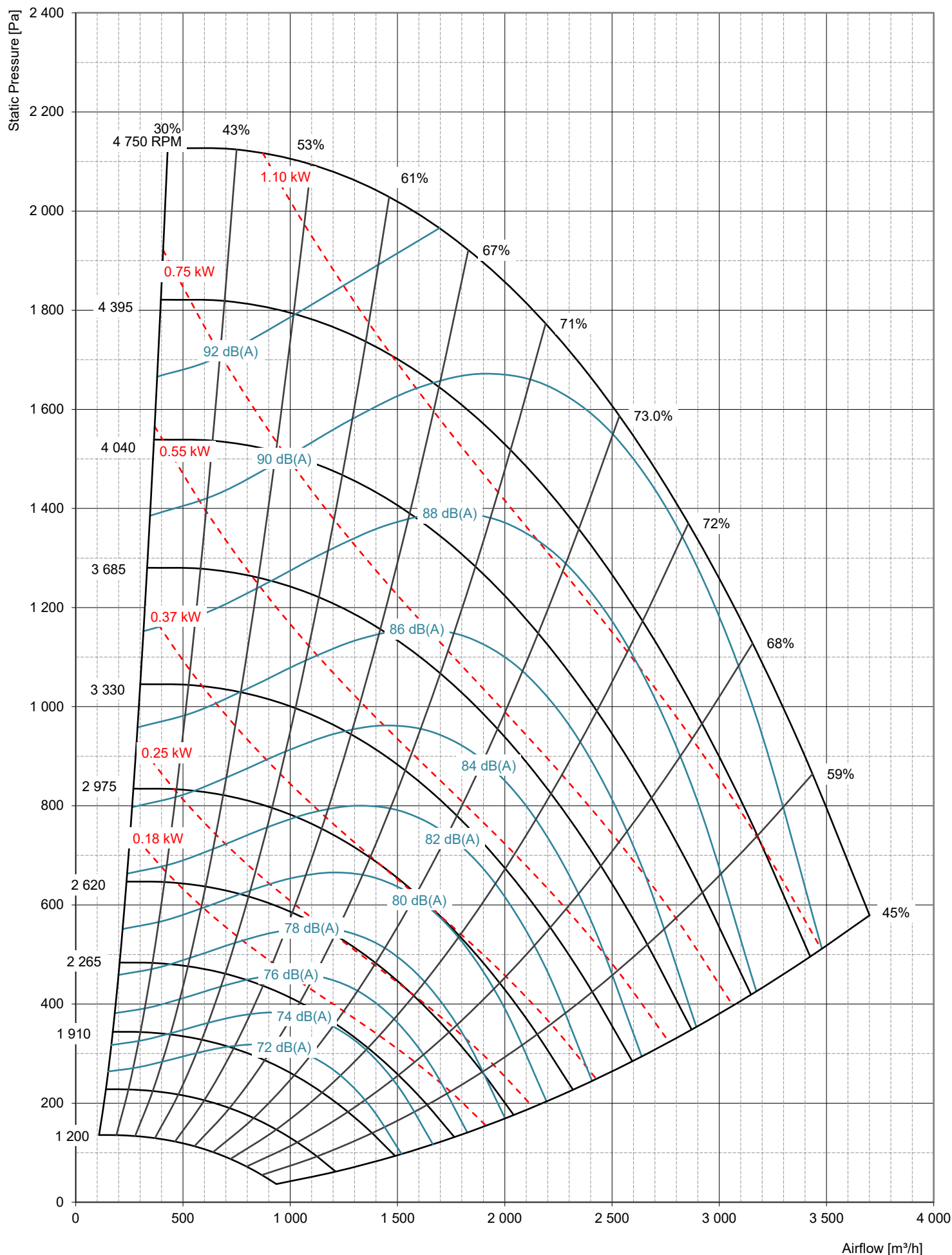
General specification

Fan Impeller Model	SR-FI-A7-250
Fan Impeller Size	250 mm
Impeller material	Aluminum
Blade design / No of blades	Aerofoil / 7
Installation/Working position	Horizontal / Vertical shaft
Minimum airflow	108 m ³ /h
Maximum airflow	3 701 m ³ /h
Maximum static pressure	2 127 Pa

Maximum rated revolutions	4 750 RPM
Spinning direction	Clockwise, viewed from air inlet
Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Inlet Funnel Material	Hot-dip galvanized steel
Static pressure K-factor	64
Number of static pressure probes	2
Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
System Mass (Impeller + inlet funnel)	2.43 kg

Apperance

Dimensions


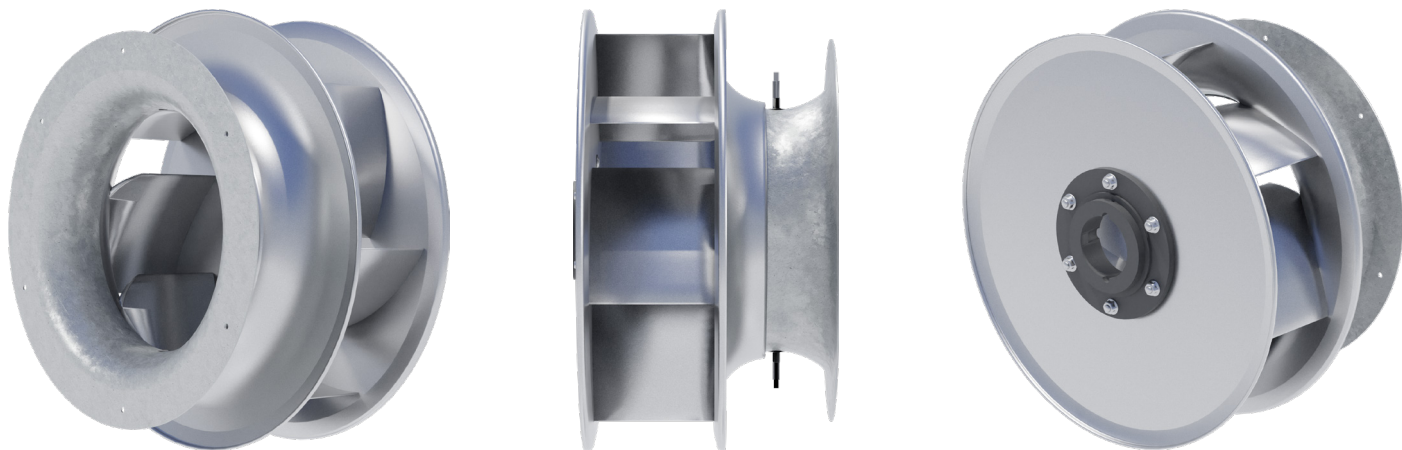
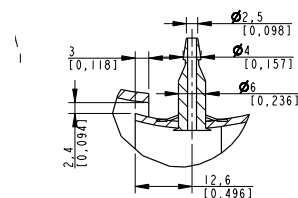
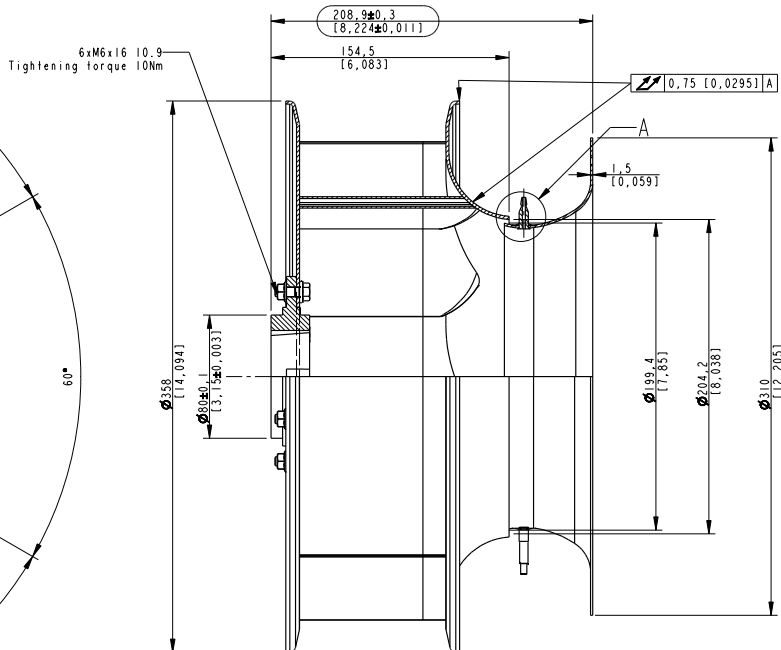
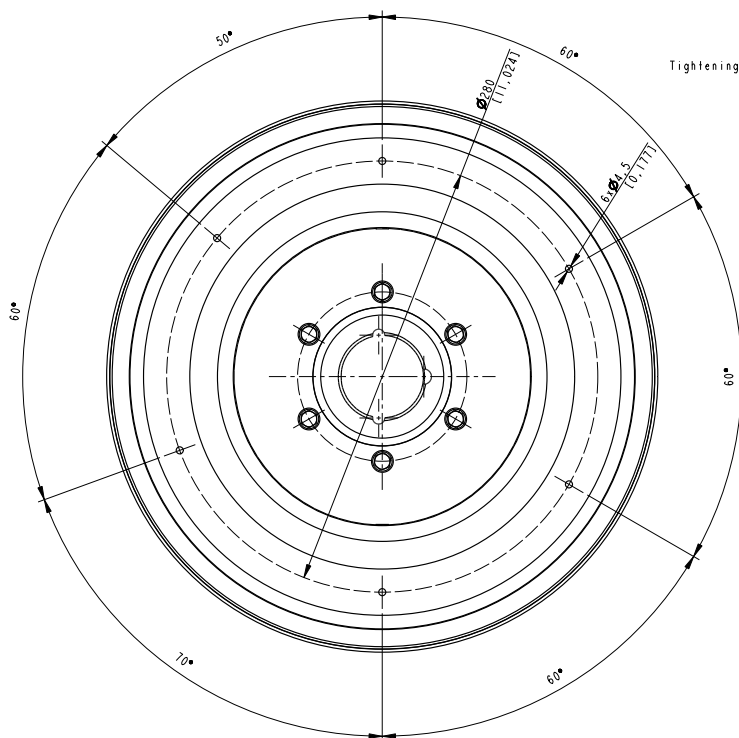
Performance Chart



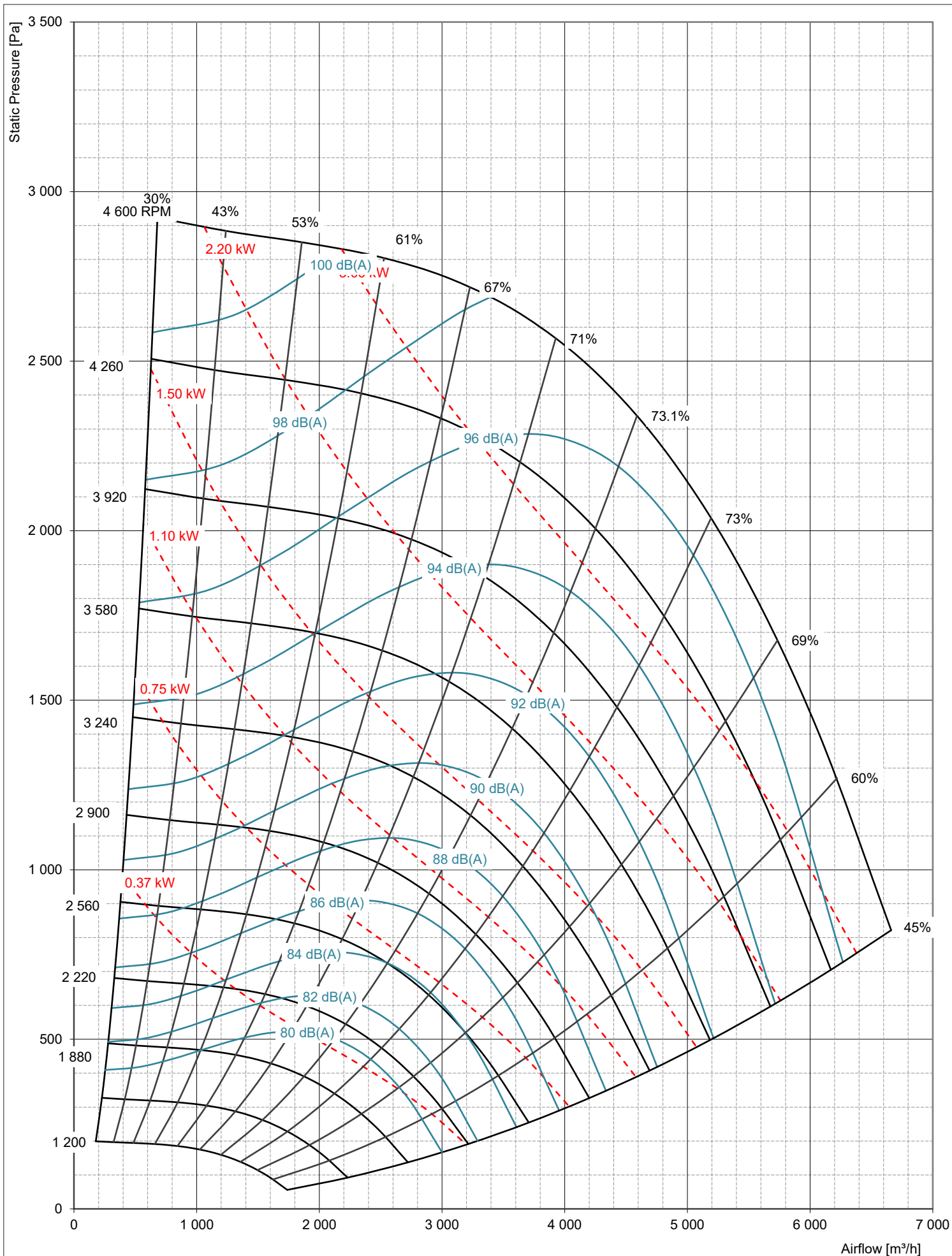
General specification

Fan Impeller Model	SR-FI-A7-315
Fan Impeller Size	315 mm
Impeller material	Aluminum
Blade design / No of blades	Aerofoil / 7
Installation/Working position	Horizontal / Vertical shaft
Minimum airflow	177 m³/h
Maximum airflow	6 662 m³/h
Maximum static pressure	2 923 Pa

Maximum rated revolutions	4 600 RPM
Spinning direction	Clockwise, wiewed from air inlet
Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Inlet Funnel Material	Hot-dip galvanized steel
Static pressure K-factor	96.5
Number of static pressure probes	2
Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
System Mass (Impeller + inlet funnel)	3.60 kg

Apperance

Dimensions


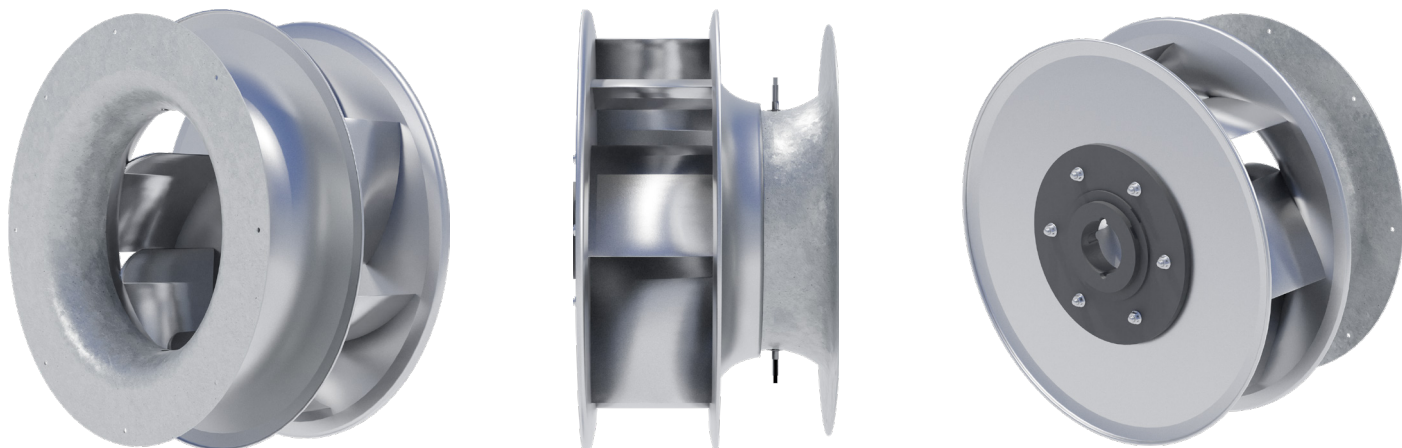
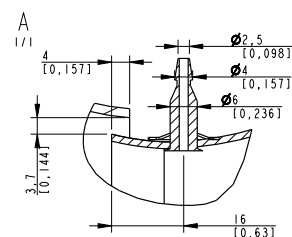
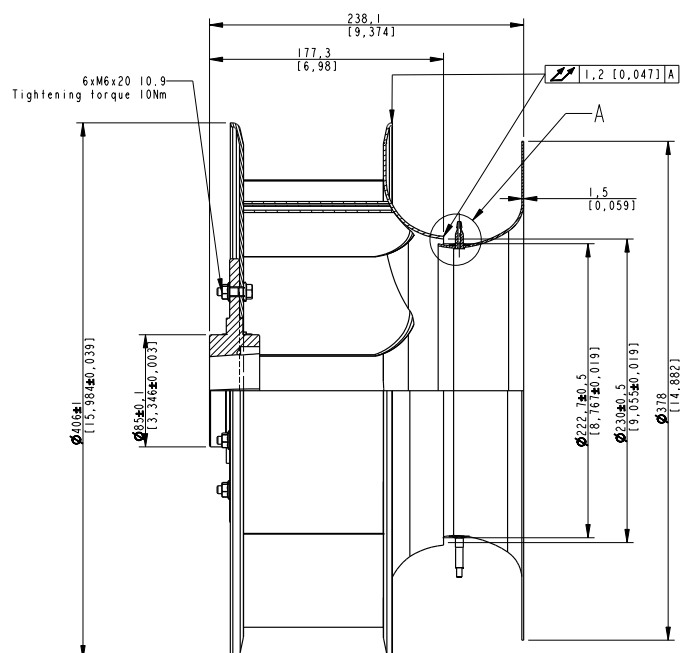
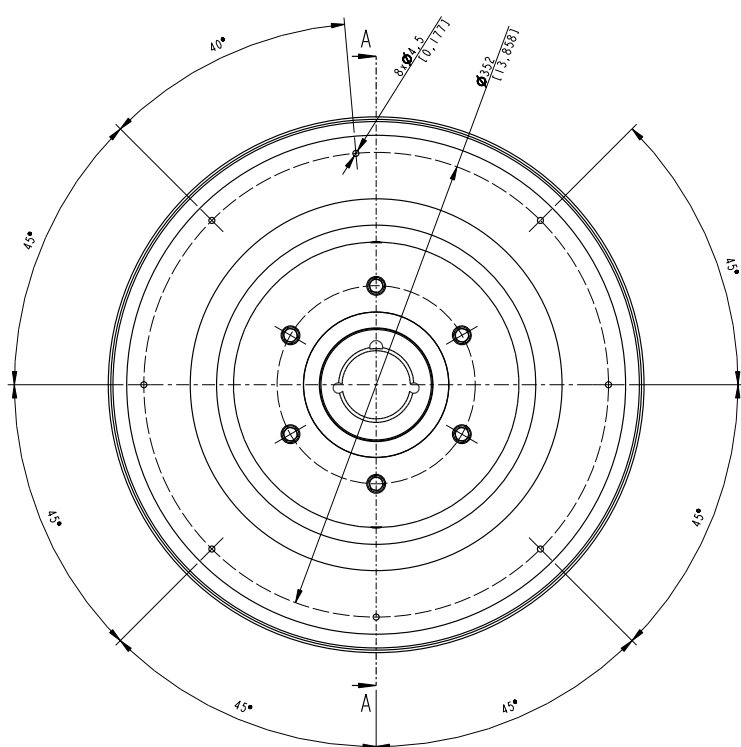
Performance Chart



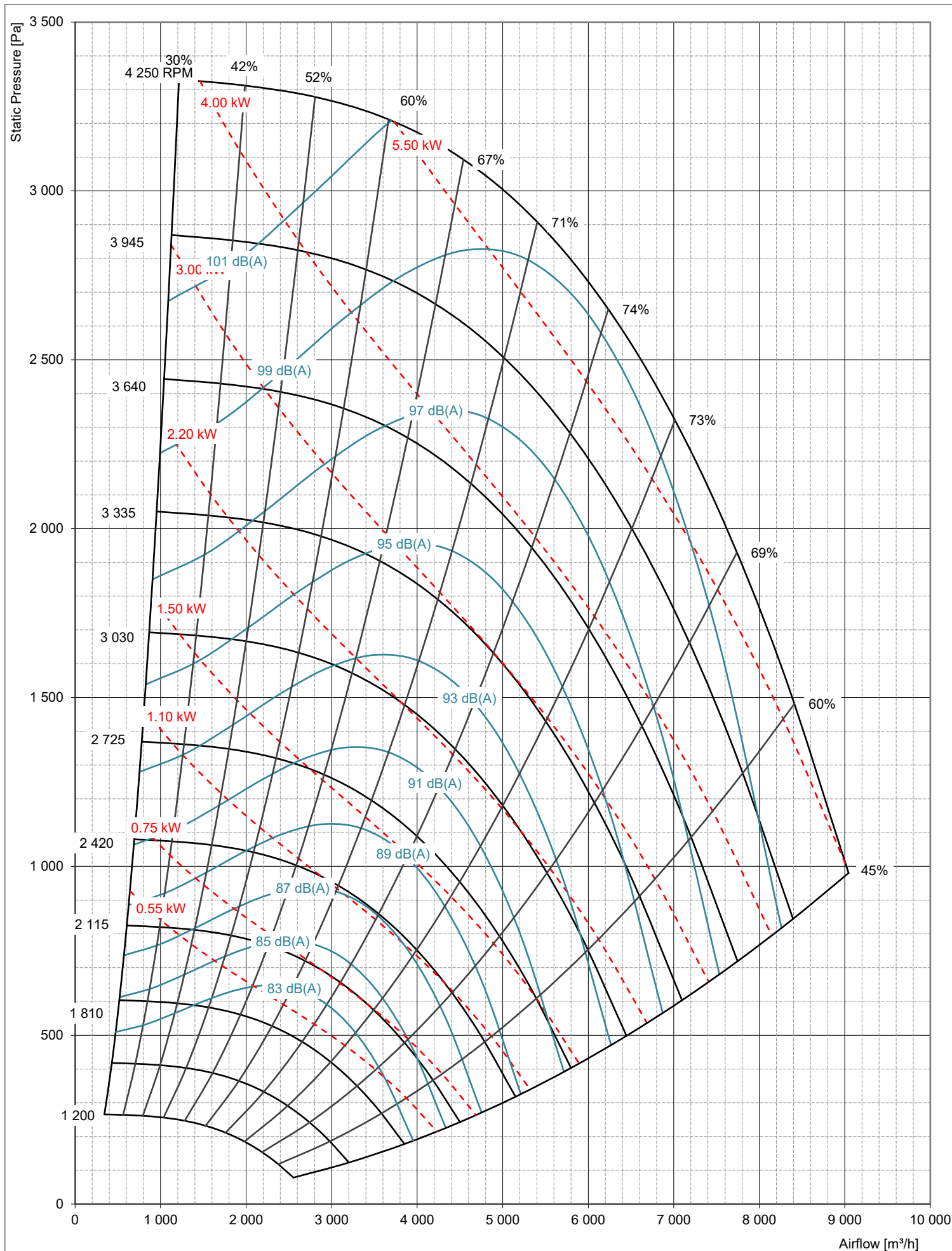
General specification

Fan Impeller Model	SR-FI-A7-355
Fan Impeller Size	355 mm
Impeller material	Aluminum
Blade design / No of blades	Aerofoil / 7
Installation/Working position	Horizontal / Vertical shaft
Minimum airflow	343 m³/h
Maximum airflow	9 044 m³/h
Maximum static pressure	3 331 Pa

Maximum rated revolutions	4 250 RPM
Spinning direction	Clockwise, wiewed from air inlet
Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Inlet Funnel Material	Hot-dip galvanized steel
Static pressure K-factor	128
Number of static pressure probes	2
Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
System Mass (Impeller + inlet funnel)	6.42 kg

Apperance

Dimensions


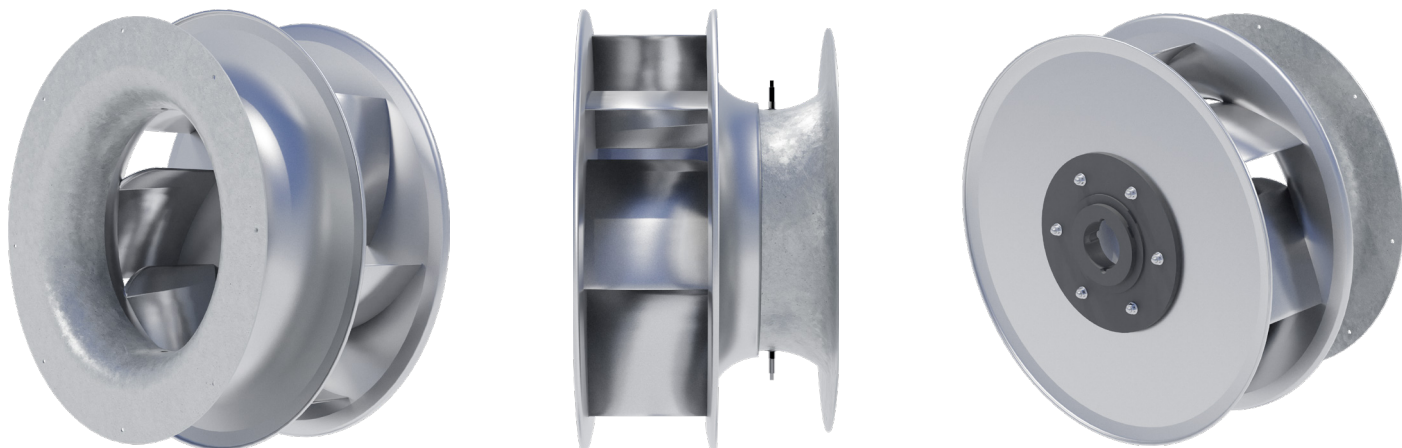
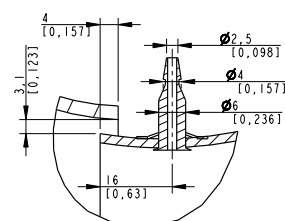
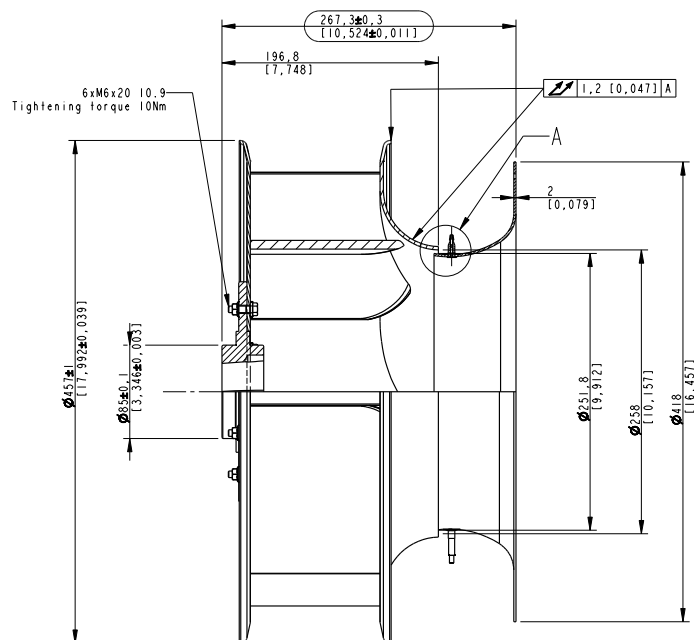
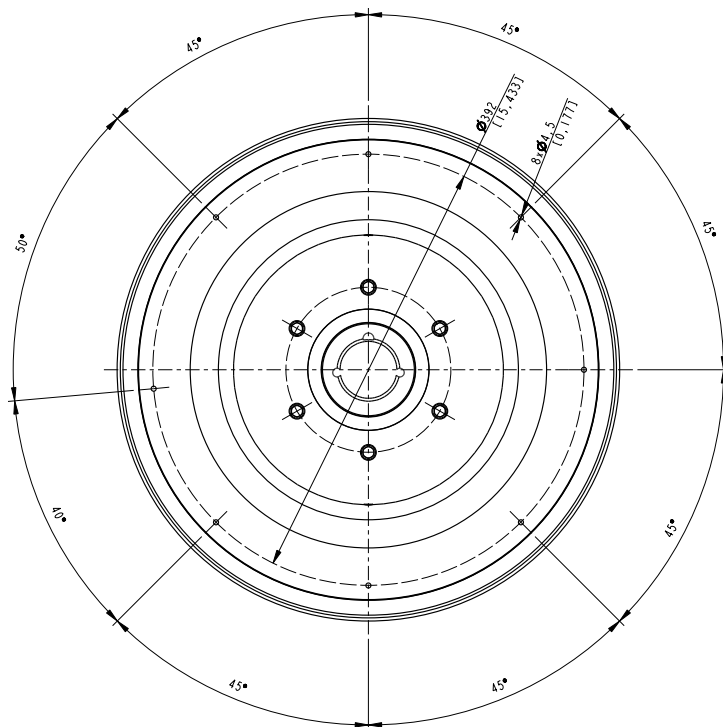
Performance Chart



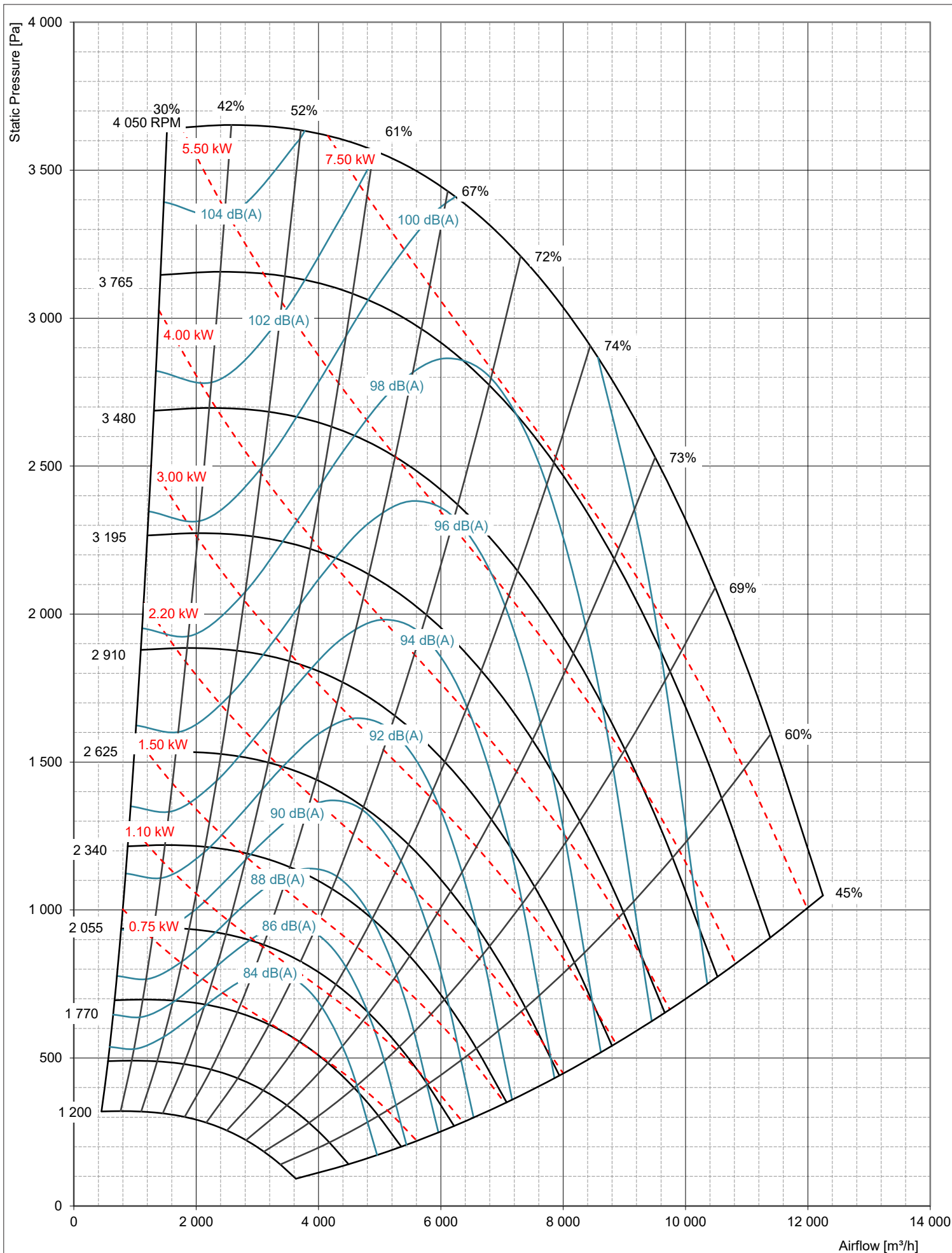
General specification

Fan Impeller Model	SR-FI-A7-400
Fan Impeller Size	400 mm
Impeller material	Aluminum
Blade design / No of blades	Aerofoil / 7
Installation/Working position	Horizontal / Vertical shaft
Minimum airflow	452 m³/h
Maximum airflow	12 248 m³/h
Maximum static pressure	3 653 Pa

Maximum rated revolutions	4 050 RPM
Spinning direction	Clockwise, viewed from air inlet
Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Inlet Funnel Material	Hot-dip galvanized steel
Static pressure K-factor	170
Number of static pressure probes	2
Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
System Mass (Impeller + inlet funnel)	8.53 kg

Apperance

Dimensions


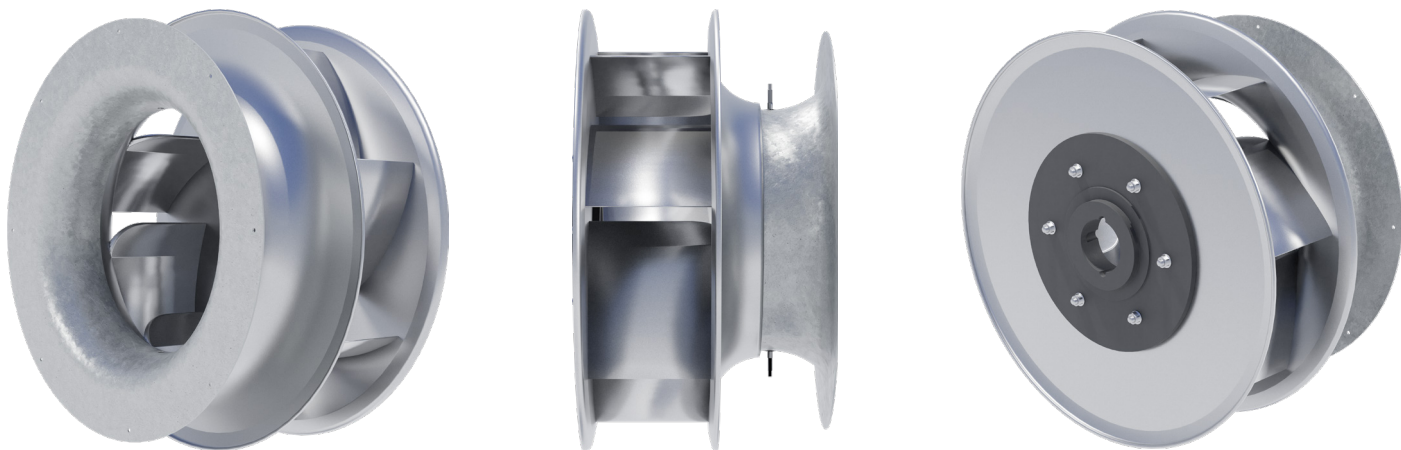
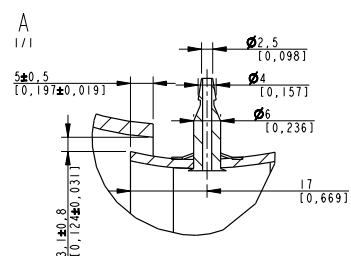
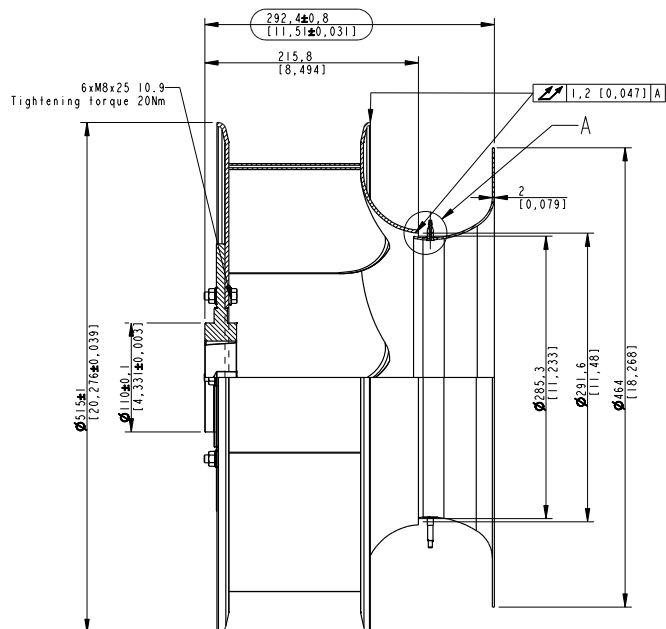
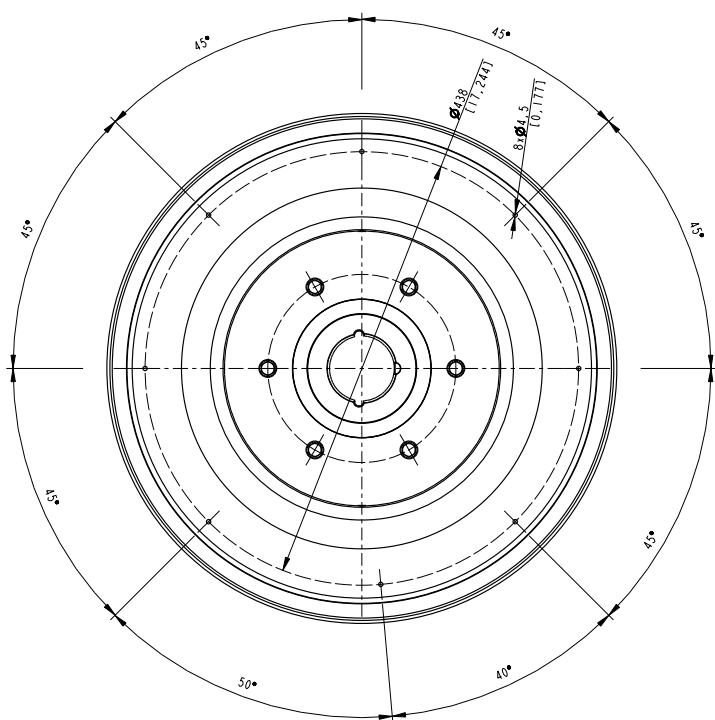
Performance Chart



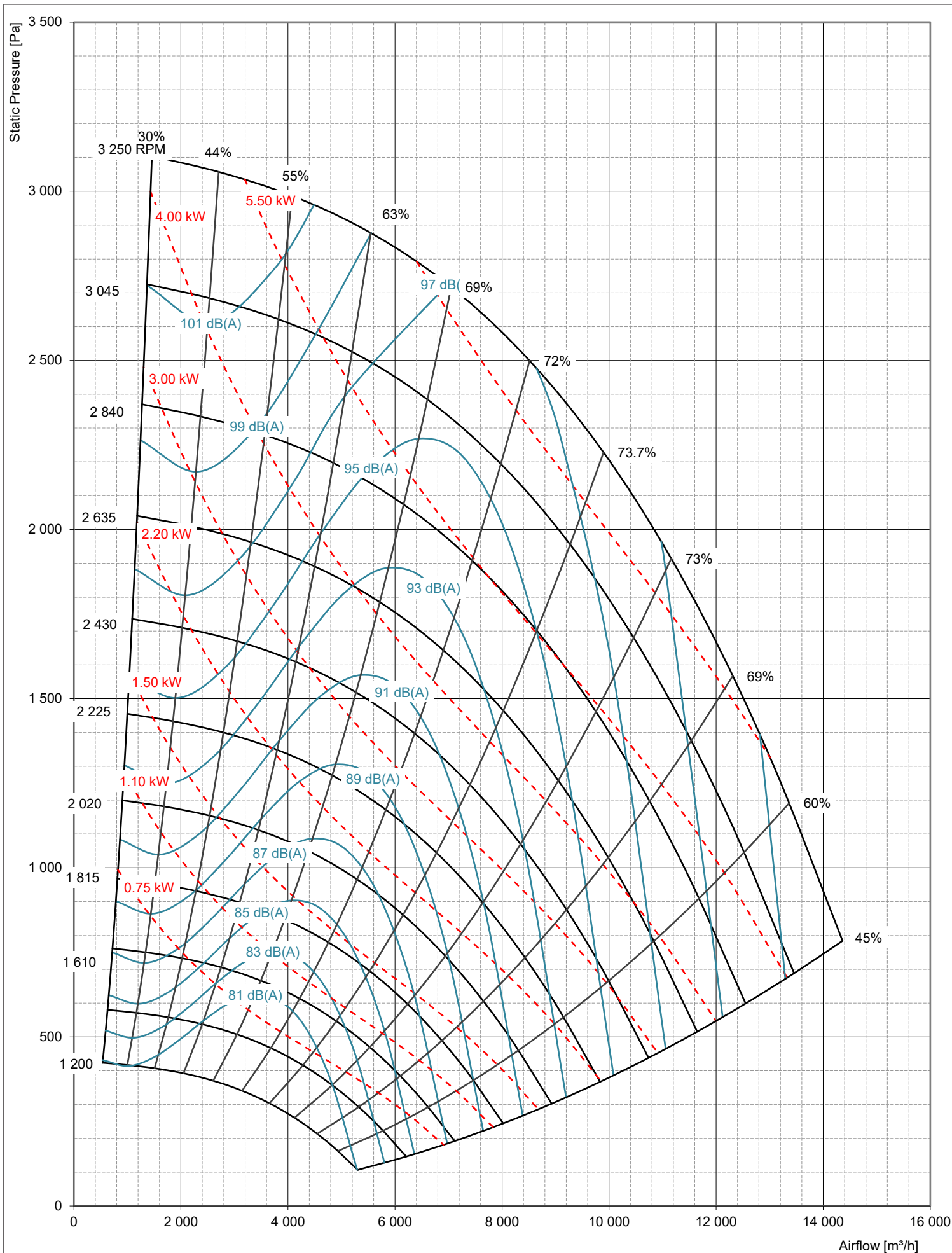
General specification

Fan Impeller Model	SR-FI-A7-450
Fan Impeller Size	450 mm
Impeller material	Aluminum
Blade design / No of blades	Aerofoil / 7
Installation/Working position	Horizontal / Vertical shaft
Minimum airflow	538 m³/h
Maximum airflow	14 362 m³/h
Maximum static pressure	3 105 Pa

Maximum rated revolutions	3 250 RPM
Spinning direction	Clockwise, wiewed from air inlet
Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Inlet Funnel Material	Hot-dip galvanized steel
Static pressure K-factor	206
Number of static pressure probes	2
Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
System Mass (Impeller + inlet funnel)	10.92 kg

Apperance

Dimensions


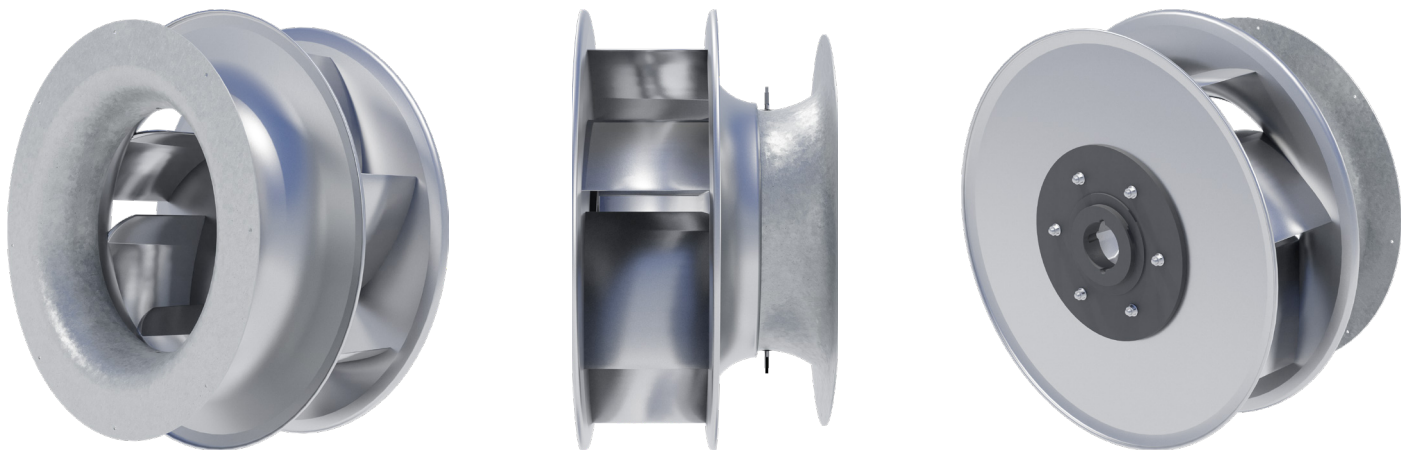
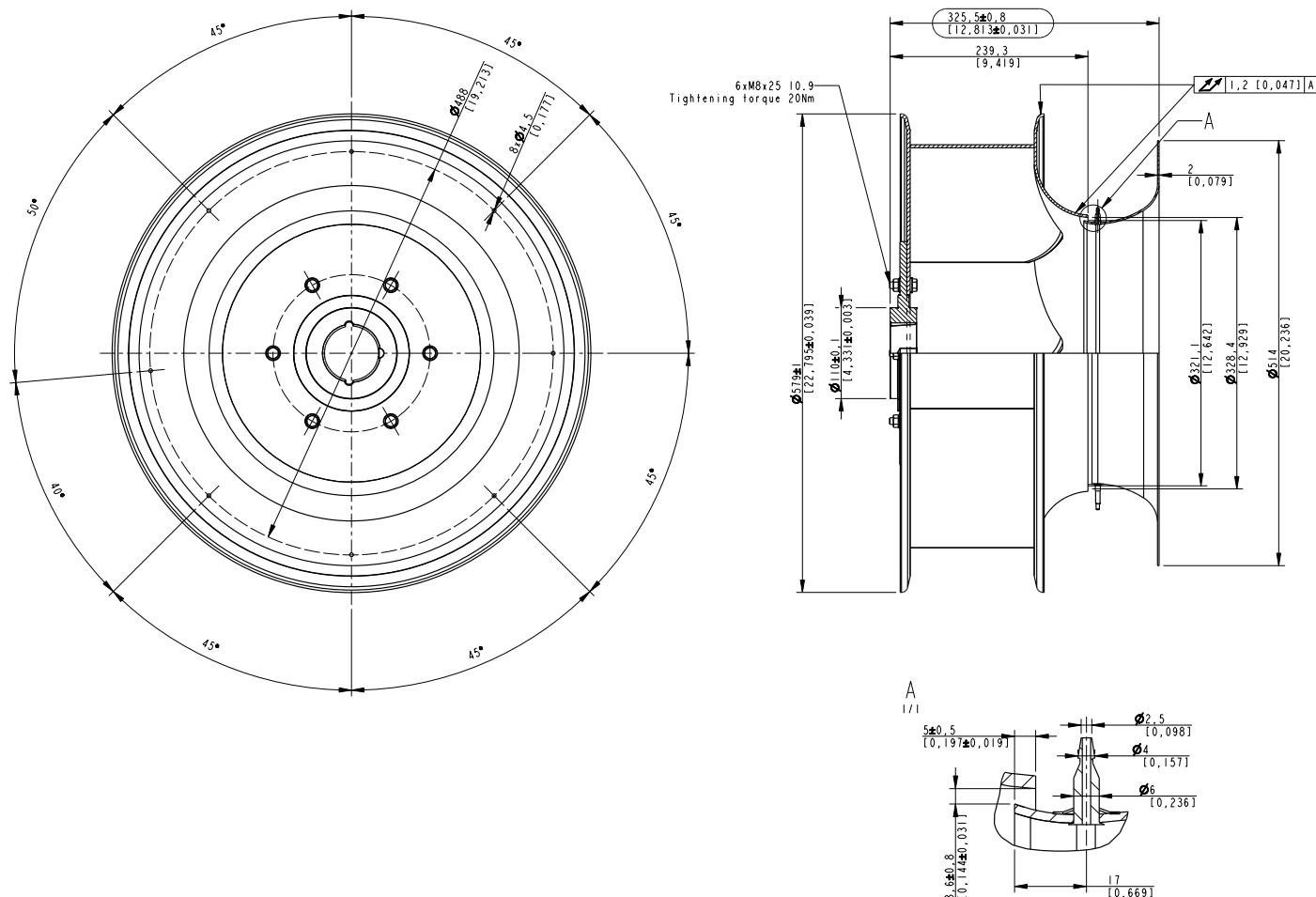
Performance Chart



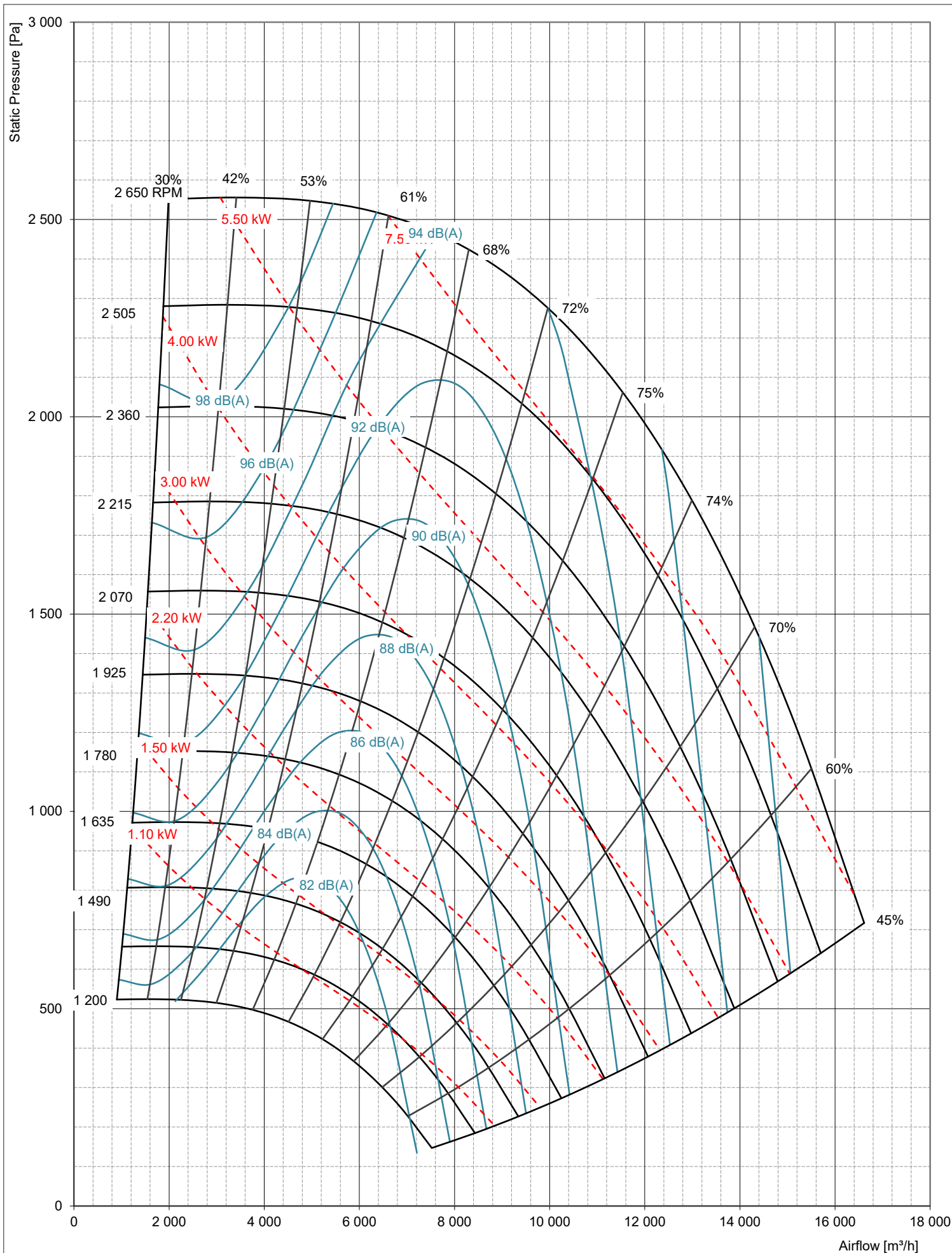
General specification

Fan Impeller Model	SR-FI-A7-500
Fan Impeller Size	500 mm
Impeller material	Aluminum
Blade design / No of blades	Aerofoil / 7
Installation/Working position	Horizontal / Vertical shaft
Minimum airflow	900 m³/h
Maximum airflow	16 610 m³/h
Maximum static pressure	2 556 Pa

Maximum rated revolutions	2 650 RPM
Spinning direction	Clockwise, viewed from air inlet
Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Inlet Funnel Material	Hot-dip galvanized steel
Static pressure K-factor	252
Number of static pressure probes	2
Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
System Mass (Impeller + inlet funnel)	12.15 kg

Apperance

Dimensions


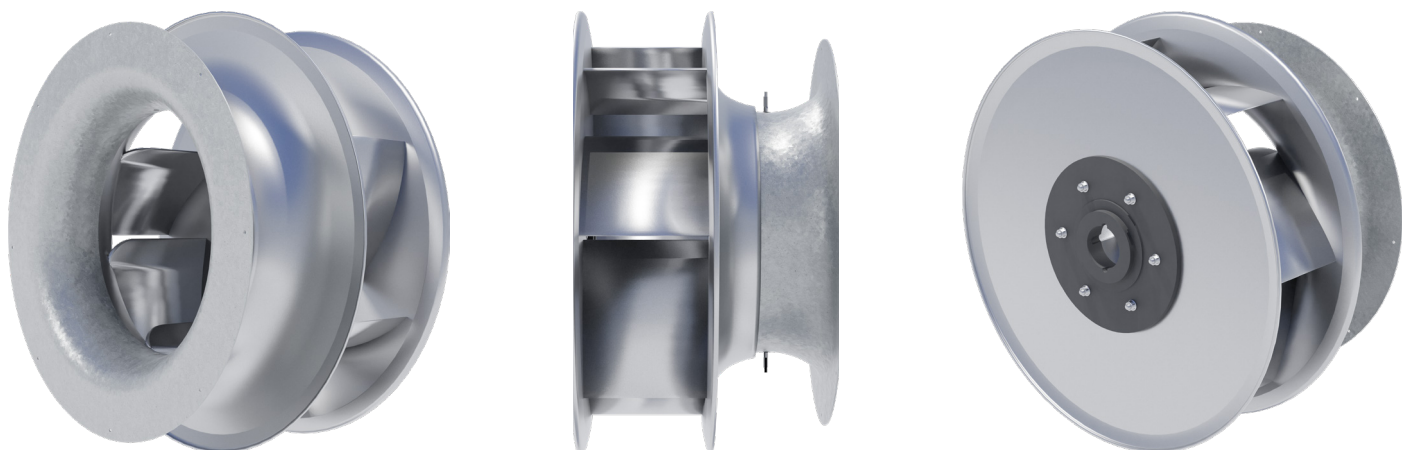
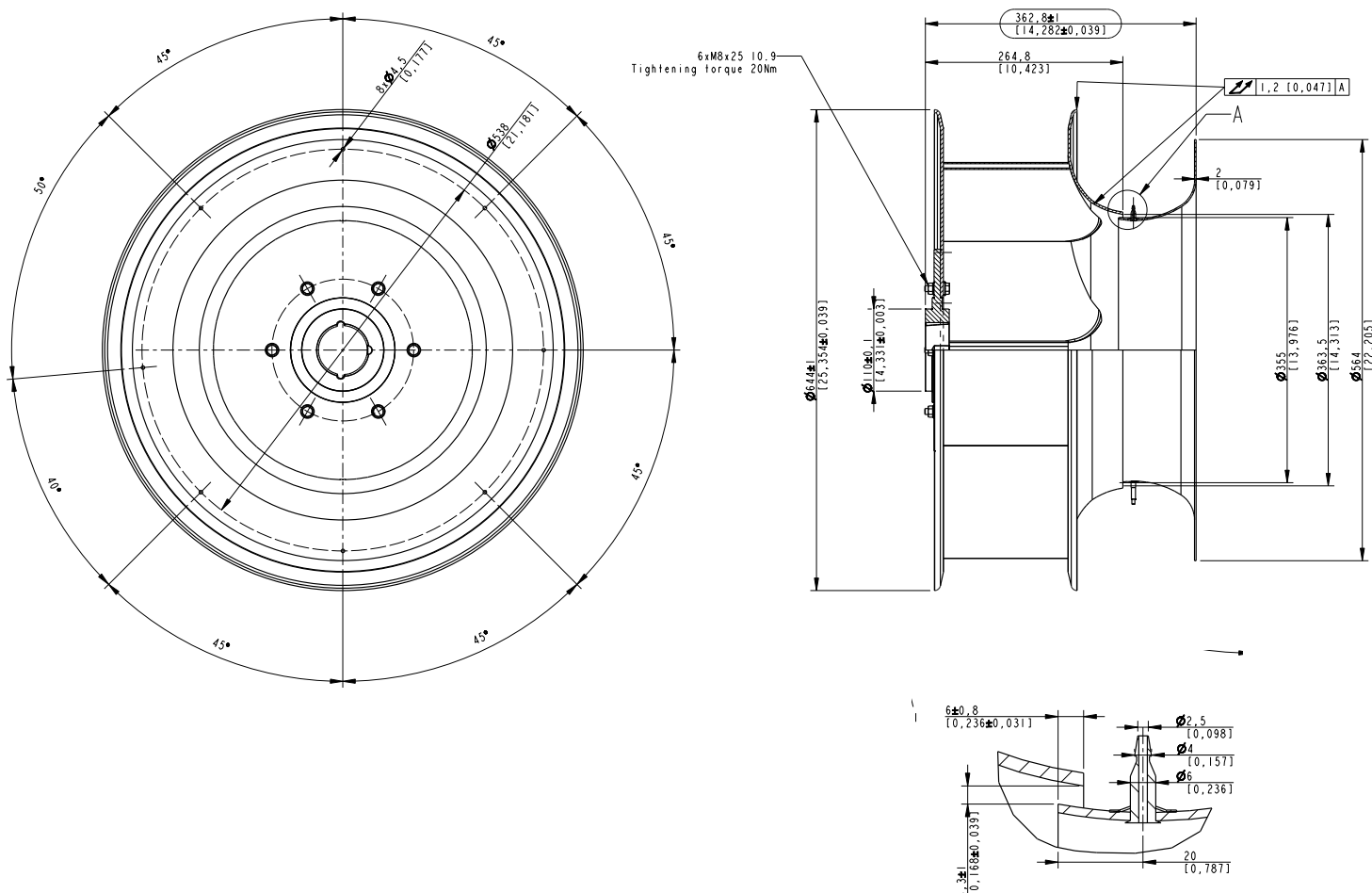
Performance Chart



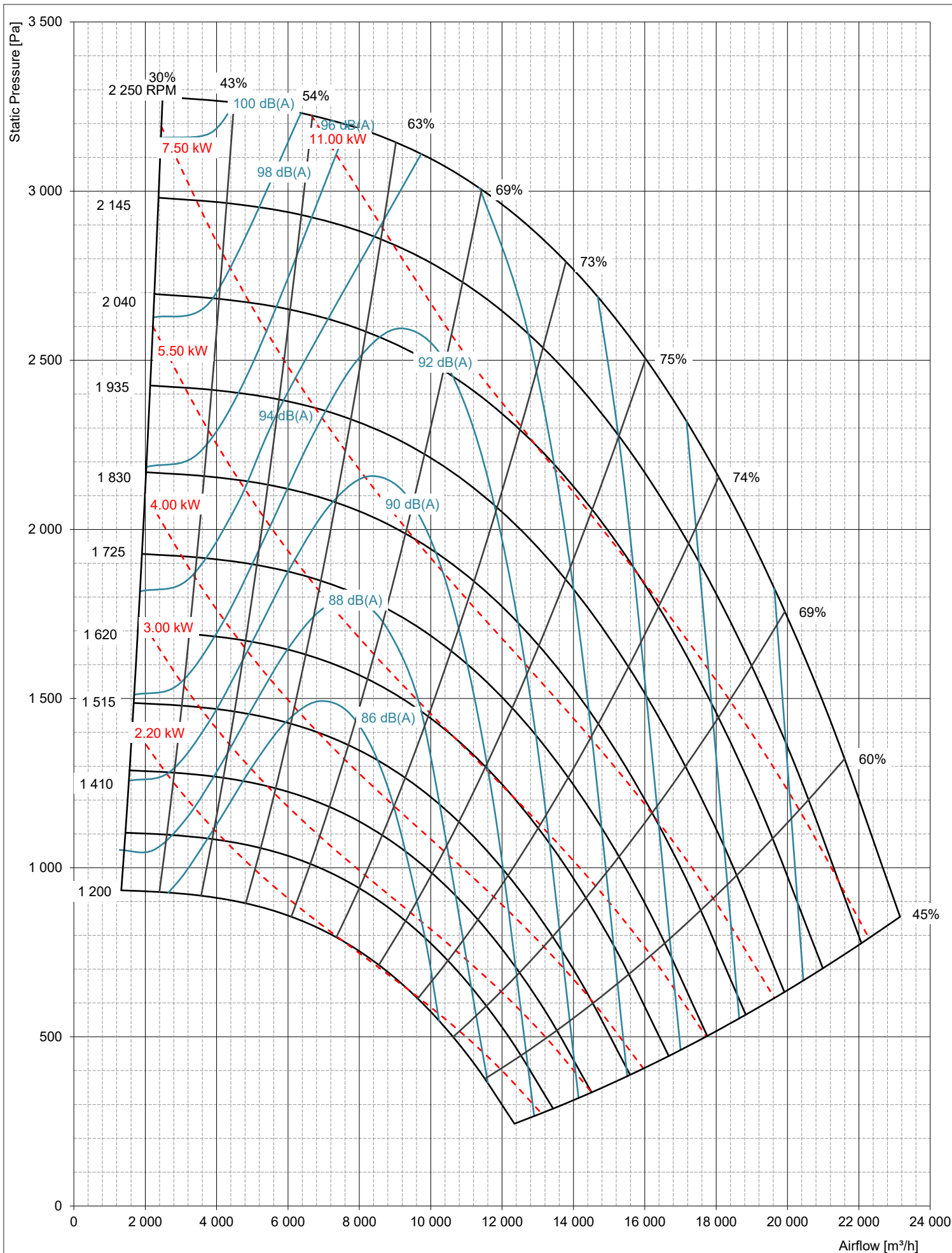
General specification

Fan Impeller Model	SR-FI-A7-560
Fan Impeller Size	560 mm
Impeller material	Aluminum
Blade design / No of blades	Aerofoil / 7
Installation/Working position	Horizontal / Vertical shaft
Minimum airflow	1 326 m³/h
Maximum airflow	23 152 m³/h
Maximum static pressure	3 279 Pa

Maximum rated revolutions	2 250 RPM
Spinning direction	Clockwise, wiewed from air inlet
Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
Inlet Funnel Material	Hot-dip galvanized steel
Static pressure K-factor	330
Number of static pressure probes	2
Balance grade	G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)
System Mass (Impeller + inlet funnel)	14.36 kg

Apperance

Dimensions


Performance Chart



Product marking syntax

SR-FI-##-###-####-#-####

Taper Lock Bushing Bore diameter

NEMA Motors

0000	no Taper Lock bushing	
0500	0.500"	1/2"
0625	0.625"	5/8"
0875	0.875"	7/8"
1125	1.125"	1-1/8"
1375	1.375"	1-3/8"
1625	1.625"	1-5/8"

IEC Motors

0000	no Taper Lock bushing	
0014	14 mm	
0019	19 mm	
0024	24 mm	
0028	28 mm	
0038	38 mm	

Motors Sizes system

0 No Motor System defined

N NEMA Motors
I IEC Motors

Bolt on Hub

0000 no Bolt on Hub

1610 BF16-1
1615 SM16-2
2012 SM20

Fan Impeller size

225	225 mm
250	250 mm
315	315 mm
355	355 mm
400	400 mm
450	450 mm
500	500 mm
560	560 mm

Number of blades

5 Five Blades
7 Seven Blades

Fan Impeller material

A Aluminum

Fan Impeller range

SR-FI Swiss Rotors, Fan Impellers

Inlet Funnel with static pressure probes

Inlet Funnel	Application	Static Pressure Probes	Part No.
IF-FI-A-225	SR-FI-A7-225	2	1199586
IF-FI-A-250	SR-FI-A7-250	2	1199587
IF-FI-A-315	SR-FI-A7-315	2	1199588
IF-FI-A-355	SR-FI-A7-355	2	1206016
IF-FI-A-400	SR-FI-A7-400	2	1206017
IF-FI-A-450	SR-FI-A7-450	2	1206018
IF-FI-A-500	SR-FI-A7-500	2	1206019
IF-FI-A-560	SR-FI-A7-560	2	1206020

Fan Impeller / No Bolt on Hub / No Taper Lock Bushing

Fan Impeller	Full Code	Part No.
SR-FI-A7-225	SR-FI-A7-225-0000-0-0000	1204493
SR-FI-A7-250	SR-FI-A7-250-0000-0-0000	1190920
SR-FI-A7-315	SR-FI-A7-315-0000-0-0000	1190930
SR-FI-A7-355	SR-FI-A7-355-0000-0-0000	1190940
SR-FI-A7-400	SR-FI-A7-400-0000-0-0000	1190950
SR-FI-A7-450	SR-FI-A7-450-0000-0-0000	1190960
SR-FI-A7-500	SR-FI-A7-500-0000-0-0000	1190970
SR-FI-A7-560	SR-FI-A7-560-0000-0-0000	1190980

Fan Impeller / No Bolt on Hub / No Taper Lock Bushing

Fan Impeller	Bolt on Hub	Full Code	Part No.
SR-FI-A7-225	BF16-1	SR-FI-A7-225-1610-0-0000	1204512
SR-FI-A7-250	BF16-1	SR-FI-A7-250-1610-0-0000	1204563
SR-FI-A7-315	BF16-1	SR-FI-A7-315-1610-0-0000	1204608
SR-FI-A7-355	SM16-2	SR-FI-A7-355-1615-0-0000	1204630
SR-FI-A7-400	SM16-2	SR-FI-A7-400-1615-0-0000	1204640
SR-FI-A7-450	SM20	SR-FI-A7-450-2012-0-0000	1204642
SR-FI-A7-500	SM20	SR-FI-A7-500-2012-0-0000	1204661
SR-FI-A7-560	SM20	SR-FI-A7-560-2012-0-0000	1204672

NEMA Motors



Fan Impeller / Bolt on Hub / Taper Lock Bushing

NEMA Motors					
Fan Impeller	Bolt on Hub	Bore Diameter	Taper Lock Bushing	Full Code	Part No.
SR-FI-A7-225	BF16-1	1/2"	1610-1/2" (0.500")	SR-FI-A7-225-1610-N-0500	1218186
		5/8"	1610-5/8" (0.625")	SR-FI-A7-225-1610-N-0625	1218187
		7/8"	1610-7/8" (0.875")	SR-FI-A7-225-1610-N-0875	1218188
		1-1/8"	1610-1-1/8" (1.125")	SR-FI-A7-225-1610-N-1125	1218189
SR-FI-A7-250	BF16-1	1/2"	1610-1/2" (0.500")	SR-FI-A7-250-1610-N-0500	1218190
		5/8"	1610-5/8" (0.625")	SR-FI-A7-250-1610-N-0625	1218191
		7/8"	1610-7/8" (0.875")	SR-FI-A7-250-1610-N-0875	1218192
SR-FI-A7-315	BF16-1	1/2"	1610-1/2" (0.500")	SR-FI-A7-315-1610-N-0500	1218193
		5/8"	1610-5/8" (0.625")	SR-FI-A7-315-1610-N-0625	1218194
		7/8"	1610-7/8" (0.875")	SR-FI-A7-315-1610-N-0875	1218195
		1-1/8"	1610-1-1/8" (1.125")	SR-FI-A7-315-1610-N-1125	1218196
SR-FI-A7-355	SM16-2	1/2"	1615-1/2" (0.500")	SR-FI-A7-355-1615-N-0500	1218197
		5/8"	1615-5/8" (0.625")	SR-FI-A7-355-1615-N-0625	1218198
		7/8"	1615-7/8" (0.875")	SR-FI-A7-355-1615-N-0875	1218199
		1-1/8"	1615-1-1/8" (1.125")	SR-FI-A7-355-1615-N-1125	1218200
SR-FI-A7-400	SM16-2	1-3/8"	1615-1-3/8" (1.375")	SR-FI-A7-355-1615-N-1375	1218201
		1-5/8"	1615-1-5/8" (1.625")	SR-FI-A7-400-1615-N-1625	1218202
		7/8"	1615-7/8" (0.875")	SR-FI-A7-400-1615-N-0875	1218203
		1-1/8"	1615-1-1/8" (1.125")	SR-FI-A7-400-1615-N-1125	1218204
SR-FI-A7-450	SM20	1-3/8"	1615-1-3/8" (1.375")	SR-FI-A7-400-1615-N-1375	1218205
		1-5/8"	1615-1-5/8" (1.625")	SR-FI-A7-400-1615-N-1625	1218206
		7/8"	2012-7/8" (0.875")	SR-FI-A7-450-2012-N-0875	1218207
		1-1/8"	2012-1-1/8" (1.125")	SR-FI-A7-450-2012-N-1125	1218208
SR-FI-A7-500	SM20	1-3/8"	2012-1-3/8" (1.375")	SR-FI-A7-450-2012-N-1375	1218209
		1-5/8"	2012-1-5/8" (1.625")	SR-FI-A7-450-2012-N-1625	1218210
		7/8"	2012-7/8" (0.875")	SR-FI-A7-500-2012-N-0875	1218211
		1-1/8"	2012-1-1/8" (1.125")	SR-FI-A7-500-2012-N-1125	1218212
SR-FI-A7-560	SM20	1-3/8"	2012-1-3/8" (1.375")	SR-FI-A7-500-2012-N-1375	1218213
		1-5/8"	2012-1-5/8" (1.625")	SR-FI-A7-500-2012-N-1625	1218214
		7/8"	2012-7/8" (0.875")	SR-FI-A7-560-2012-N-0875	1218215
		1-1/8"	2012-1-1/8" (1.125")	SR-FI-A7-560-2012-N-1125	1218216
SR-FI-A7-560	SM20	1-3/8"	2012-1-3/8" (1.375")	SR-FI-A7-560-2012-N-1375	1218217
		1-5/8"	2012-1-5/8" (1.625")	SR-FI-A7-560-2012-N-1625	1218218

IEC Motors



Fan Impeller / Bolt on Hub / Taper Lock Bushing

IEC Motors					
Fan Impeller	Bolt on Hub	Bore Diameter	Taper Lock Bushing	Full Code	Part No.
SR-FI-A7-225	BF16-1	14 mm	1610-14	SR-FI-A7-225-1610-I-0014	1218345
		19 mm	1610-19	SR-FI-A7-225-1610-I-0019	1218346
		24 mm	1610-24	SR-FI-A7-225-1610-I-0024	1218347
SR-FI-A7-250	BF16-1	14 mm	1610-14	SR-FI-A7-250-1610-I-0014	1218348
		19 mm	1610-19	SR-FI-A7-250-1610-I-0019	1218349
		24 mm	1610-24	SR-FI-A7-250-1610-I-0024	1218350
SR-FI-A7-315	BF16-1	14 mm	1610-14	SR-FI-A7-315-1610-I-0014	1218351
		19 mm	1610-19	SR-FI-A7-315-1610-I-0019	1218352
		24 mm	1610-24	SR-FI-A7-315-1610-I-0024	1218353
		28 mm	1610-28	SR-FI-A7-315-1610-I-0028	1218354
SR-FI-A7-355	SM16-2	14 mm	1615-14	SR-FI-A7-355-1615-I-0014	1218355
		19 mm	1615-19	SR-FI-A7-355-1615-I-0019	1218356
		24 mm	1615-24	SR-FI-A7-355-1615-I-0024	1218357
		28 mm	1615-28	SR-FI-A7-355-1615-I-0028	1218358
		38 mm	1615-38	SR-FI-A7-355-1615-I-0038	1218359
SR-FI-A7-400	SM16-2	42 mm	1615-42	SR-FI-A7-355-1615-I-0042	1218360
		19 mm	1615-19	SR-FI-A7-400-1615-I-0019	1218361
		24 mm	1615-24	SR-FI-A7-400-1615-I-0024	1218362
		28 mm	1615-28	SR-FI-A7-400-1615-I-0028	1218363
		38 mm	1615-38	SR-FI-A7-400-1615-I-0038	1218364
SR-FI-A7-450	SM20	42 mm	1615-42	SR-FI-A7-400-1615-I-0042	1218365
		19 mm	2012-19	SR-FI-A7-450-2012-I-0019	1218366
		24 mm	2012-24	SR-FI-A7-450-2012-I-0024	1218367
		28 mm	2012-28	SR-FI-A7-450-2012-I-0028	1218368
		38 mm	2012-38	SR-FI-A7-450-2012-I-0038	1218369
SR-FI-A7-500	SM20	42 mm	2012-42	SR-FI-A7-450-2012-I-0042	1218370
		24 mm	2012-24	SR-FI-A7-500-2012-I-0024	1218372
		28 mm	2012-28	SR-FI-A7-500-2012-I-0028	1218373
		38 mm	2012-38	SR-FI-A7-500-2012-I-0038	1218374
SR-FI-A7-560	SM20	42 mm	2012-42	SR-FI-A7-500-2012-I-0042	1218375
		28 mm	2012-28	SR-FI-A7-560-2012-I-0028	1218376
		38 mm	2012-38	SR-FI-A7-560-2012-I-0038	1218377
SR-FI-A7-560	SM20	42 mm	2012-42	SR-FI-A7-560-2012-I-0042	1218378

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