



EC Fan Sets

315-630 mm

Backward Curved
Single Inlet, Single Width
Aluminum Impellers



Technical Catalog in **Imperial Units**



SWISS ROTORS

The Company

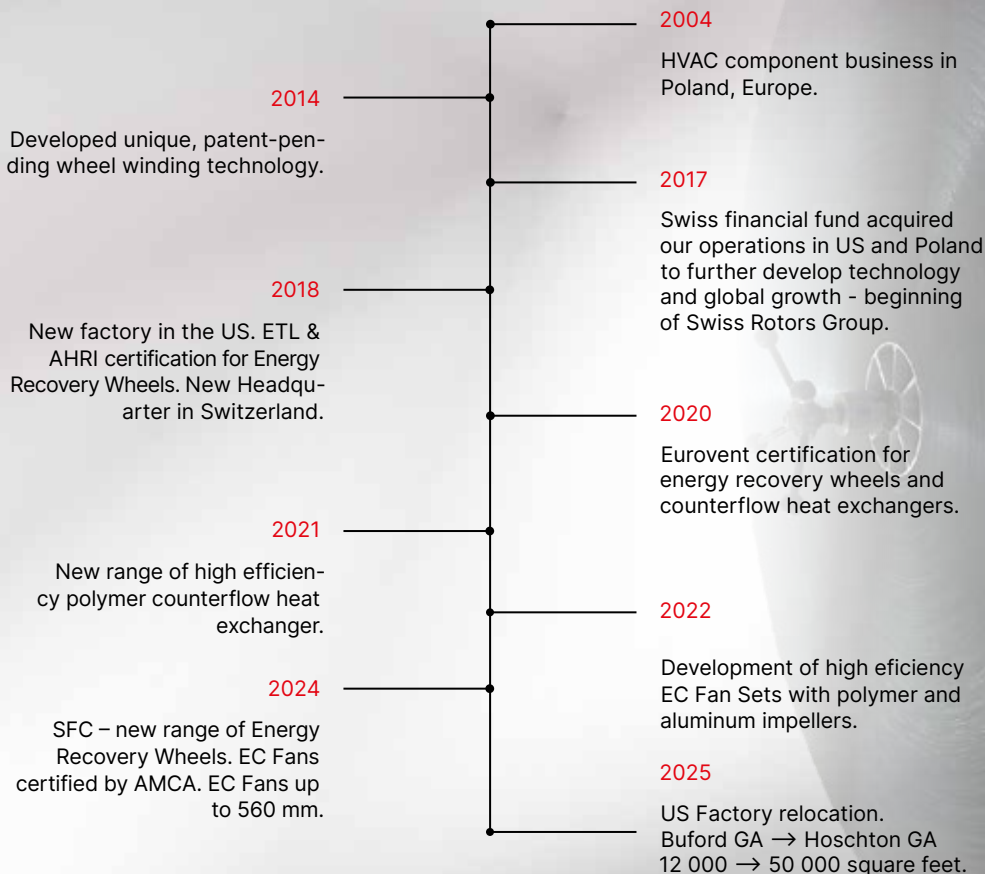
Who we are?

We are a **Swiss Company** specializing in the design and production of key components for air conditioning units.

All our products fully correspond to the dimensions of components commonly used on the market and are 100% equivalent in terms of efficiency and performance.

The components we design and produce are subject to continuous improvement. Their technical parameters are guaranteed by independent certification bodies.

How did we become a **reliable partner**?



SWISS ROTORS

Where are we **located**?

As close as possible...

Where the market dictates the highest requirements for product quality, performance, efficiency and compliance with directives and standards.

Where respect to energy is a key aspect of every designed, built and operated ventilation system.

Where the requirements for equipment in terms of service life and reliability are the highest.



Hoschton,
GA, USA



Dębogórze,
Poland

We **design and manufacture locally**...

... to be as close as possible to our customers and the markets that they operate. So as to fully understand their requirements and follow changes in regulations.



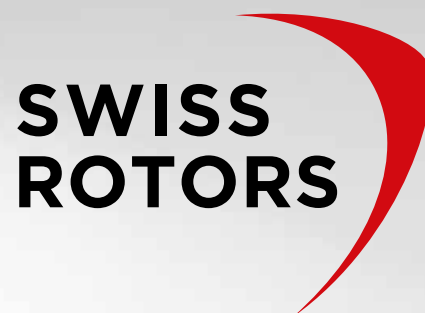
EC Fans Range

Available executions: Fully assembled EC Fan Set (**FS**)

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Compliance with standards

DIRECTIVE 2014/30/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility.

Commission Regulation(EU) 327/2011 – Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

ISO 5801:2017 – „Fans – Performance testing using standardized airways”.

ANSI/AMCA Standard 210-16: Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating

ANSI/AMCA Standard 300-14: Reverberant Room Method for Sound Testing of Fans

AMCA Standard 205-10: Energy Efficiency Classification for Fans

ANSI/AMCA Standard 208-18: Calculation of the Fan Energy Index

Performance Certification

ANSI/AMCA Standard 210-16: Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating

ANSI/AMCA Standard 300-14: Reverberant Room Method for Sound Testing of Fans

AMCA Standard 205-10: Energy Efficiency Classification for Fans

ANSI/AMCA Standard 208-18: Calculation of the Fan Energy Index



Online Selection Tool

Online selections with high-precision technical data presentation

Selection printouts marked with a certification seal

Intuitive presentation of selection results both on the program desktop and in printouts

Sorting of initial selections by size and efficiency

Precise dimensional data presented in selections

Dimensional drawing library

https://swissrotors.selector.promaster.se/US/catalog/product/SR_FS//



SR-A400-FSEC-RTB/2.5-ABB-A	6
SR-A400-FSEC-RTB/2.5-ABB-A	7
SR-A450-FSEC-RTB/3.7-ABB-A	8
SR-A450-FSEC-RTB/5.6-ABB-A	10
SR-A500-FSEC-RTB/3.7-ABB-A	12
SR-A500-FSEC-RTB/5.6-ABB-A	14
SR-A560-FSEC-RTB/5.6-ABB-A	16
AF-A630-FSEC-RTB/5.6-ABB-A	18
SR-A400-FSEC-RTB1.6-EBM-A	22
SR-A400-FSEC-RTB2.5-EBM-A	24
SR-A400-FSEC-RTB3.7-EBM-A	26
SR-A450-FSEC-RTB1.6-EBM-A	28
SR-A450-FSEC-RTB2.5-EBM-A	30
SR-A450-FSEC-RTB3.7-EBM-A	32
SR-A500-FSEC-RTB3.7-EBM-A	34
SR-A560-FSEC-RTB3.7-EBM-A	36
AF-A630-FSEC-RTB5.3-EBM-A	38
SR-A500-FSEC-RTC/5.6-INF-A	42
SR-A500-FSEC-RTC/7.5-INF-A	44
SR-A560-FSEC-RTC/5.6-INF-A	46
SR-A560-FSEC-RTC/7.5-INF-A	48
AF-A630-FSEC-RTC/7.5-INF-A	50
AF-A630-FSEC-RTC/11.2-INF-A	52

400-630 mm EC Fan Sets

ABB motors



SR-A400-FSEC-RTB/2.5-ABB

SR-A400-FSEC-RTB/2.5-ABB

SR-A450-FSEC-RTB/3.7-ABB

SR-A450-FSEC-RTB/5.6-ABB

SR-A500-FSEC-RTB/3.7-ABB

SR-A500-FSEC-RTB/5.6-ABB

SR-A560-FSEC-RTB/5.6-ABB

AF-A630-FSEC-RTB/5.6-ABB

Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Model	SR-A400-FSEC-RTB/2.5-ABB-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	2.40 kW / 3.5 A
Revolutions: Min / Nominal	300 ÷ 2400 RPM
CAV K-factor	164
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	64 Lbs

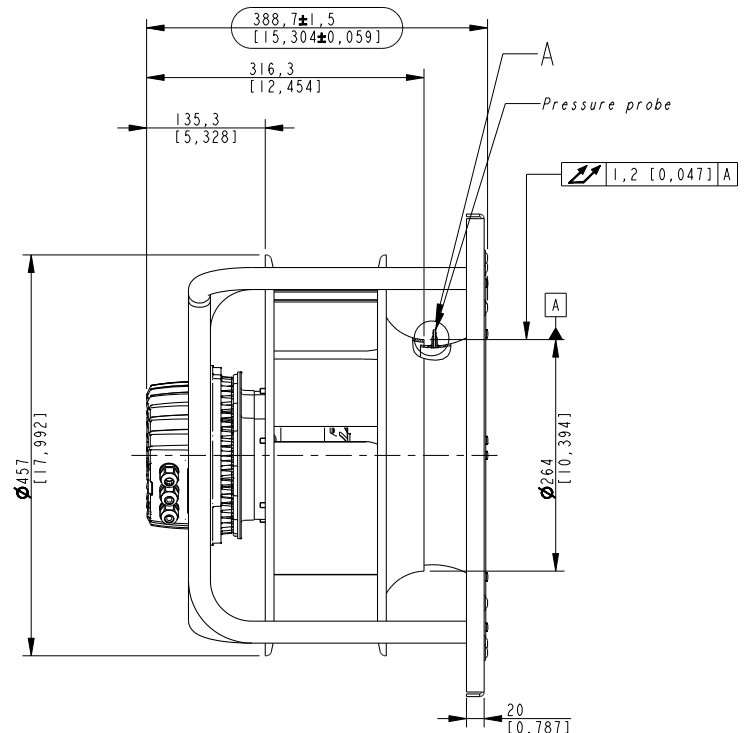
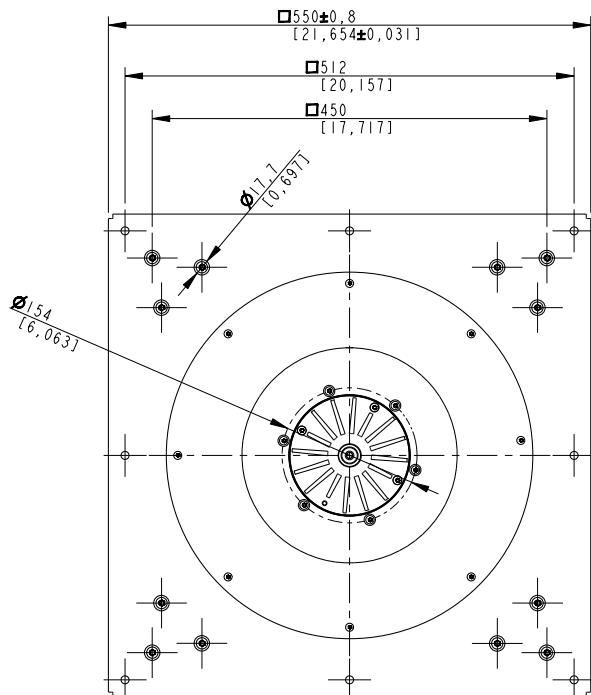
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	40 000 h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	400 mm / Aerofoil / 7
Spinning direction	Clockwise, wiewed from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation (EU) 327/2011 Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	61.5%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	2.23 kW
9	Air flow q_v	2 623 CFM
	Pressure increase pfs	4.18 inWG
10	Speed (rpm) n	2 400
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



Swiss Rotors Sp. z o.o. certifies that the

SR-A400-FSEC-RTB/2.5-ABB-A EC Fan

shown herein are 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.

- Power rating does not include transmission losses.
- Performance ratings do not include the effects of appurtenances.
- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
- L_{pAin} dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

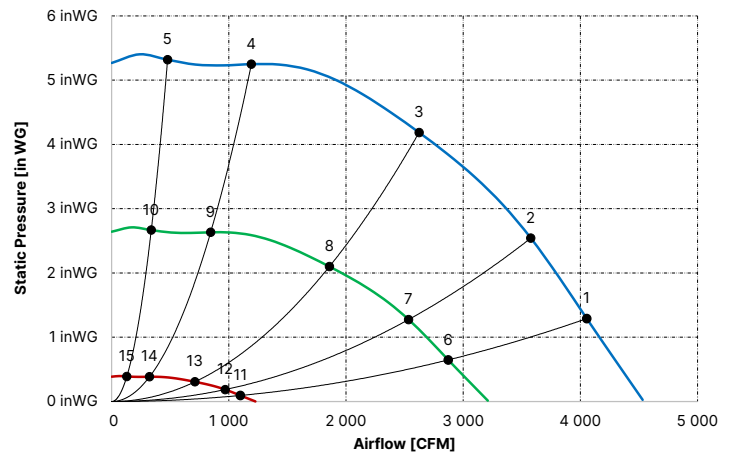
Fan Efficiency Grade (FEG), AMCA 205-10

80

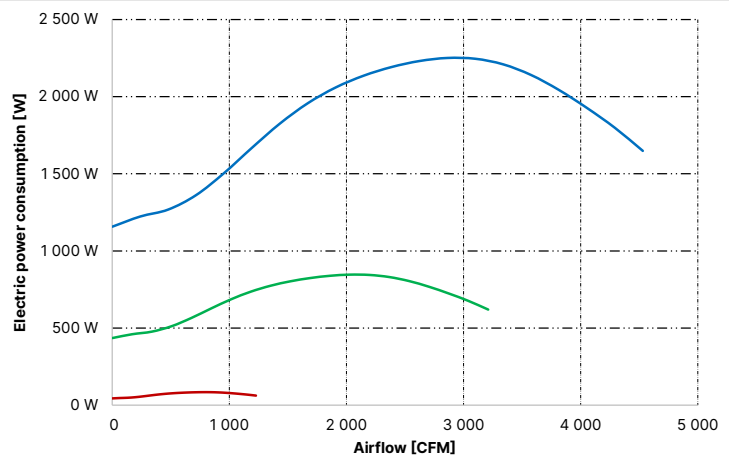
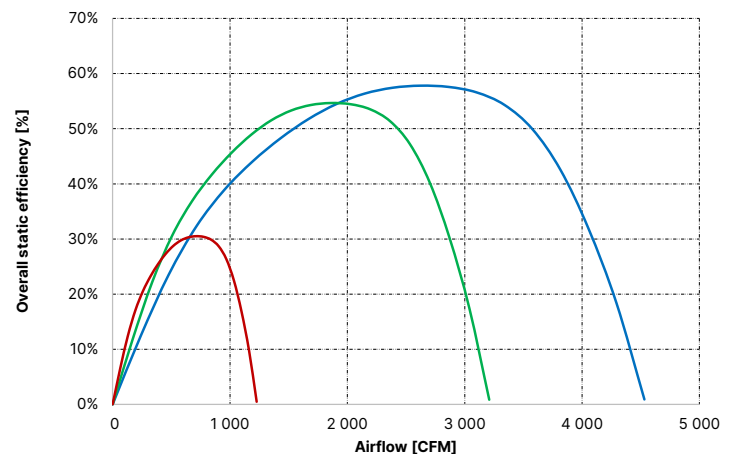
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	2 400	4 054	1.29	3.2	1.93	75.6	83.6	89.7	0.81
2	2 400	3 577	2.54	3.6	2.14	73.6	81.6	87.2	1.13
3	2 400	2 623	4.18	3.7	2.23	72.7	80.7	86.9	1.28
4	2 400	1 192	5.25	2.8	1.67	79.5	87.5	92.8	1.04
5	2 400	477	5.32	2.2	1.27	80.3	88.3	93.8	0.69
6	1 700	2 872	0.65	1.4	0.72	68.1	76.1	82.2	0.96
7	1 700	2 534	1.28	1.5	0.80	66.1	74.1	79.7	1.23
8	1 700	1 858	2.10	1.6	0.84	65.3	73.3	79.5	1.33
9	1 700	845	2.63	1.2	0.63	72.0	80.0	85.3	1.12
10	1 700	338	2.67	1.0	0.48	72.8	80.8	86.3	0.80
11	650	1 098	0.09	0.4	0.07	47.2	55.2	61.3	1.96
12	650	969	0.19	0.4	0.08	45.2	53.2	58.9	1.89
13	650	710	0.31	0.4	0.08	44.4	52.4	58.6	1.72
14	650	323	0.38	0.4	0.06	51.1	59.1	64.4	1.53
15	650	129	0.39	0.3	0.05	51.9	59.9	65.4	1.35

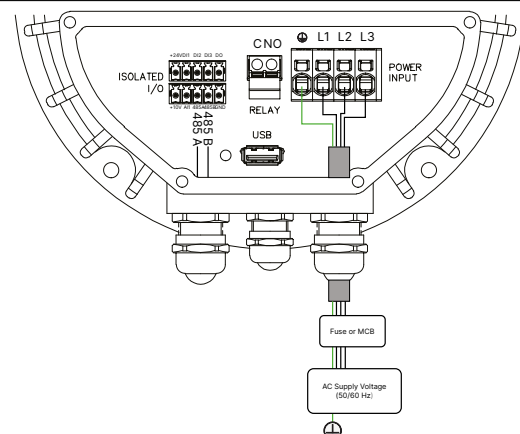
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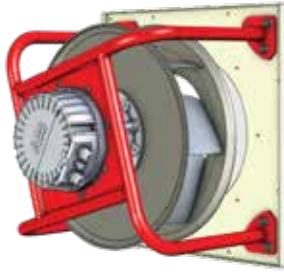
EPC = f(V)

 $\eta_{es} = f(V)$ 

Power supply and control connections



Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Model	SR-A450-FSEC-RTB/3.7-ABB-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	4.00 kW / 6.1 A
Revolutions: Min / Nominal	300 ÷ 2300 RPM
CAV K-factor	203
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	93 Lbs

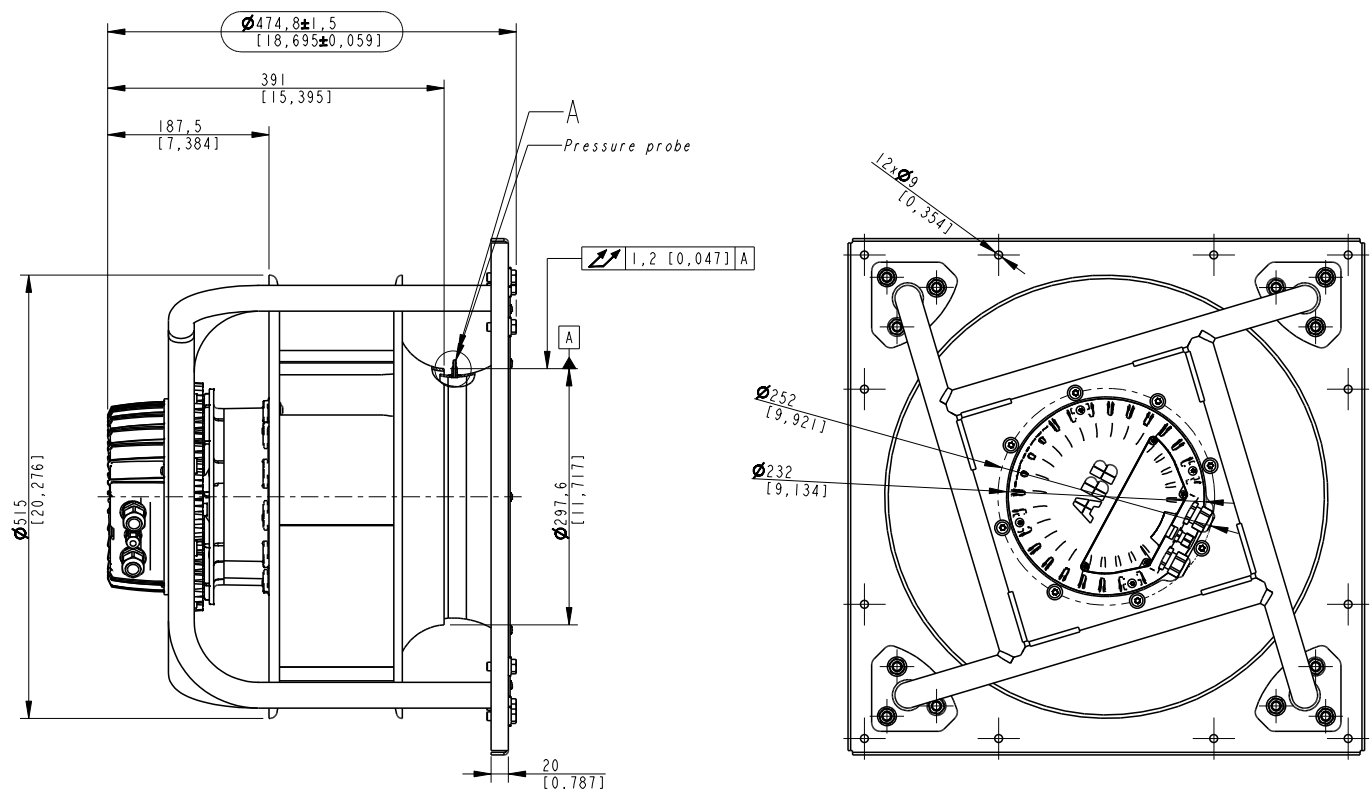
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	40 000 h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	450 mm / Aerofoil / 7
Spinning direction	Clockwise, wiewed from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation (EU) 327/2011 Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	65.2%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	3.82 kW
9	Air flow q_v	4 018 CFM
	Pressure increase p_{fs}	5.03 inWG
10	Speed (rpm) n	2 300
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



Swiss Rotors Sp. z o.o. certifies that the

SR-A450-FSEC-RTB/3.7-ABB-A EC Fan

shown herein are 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.

- Power rating does not include transmission losses.
- Performance ratings do not include the effects of appurtenances.
- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
- L_{pAin} dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

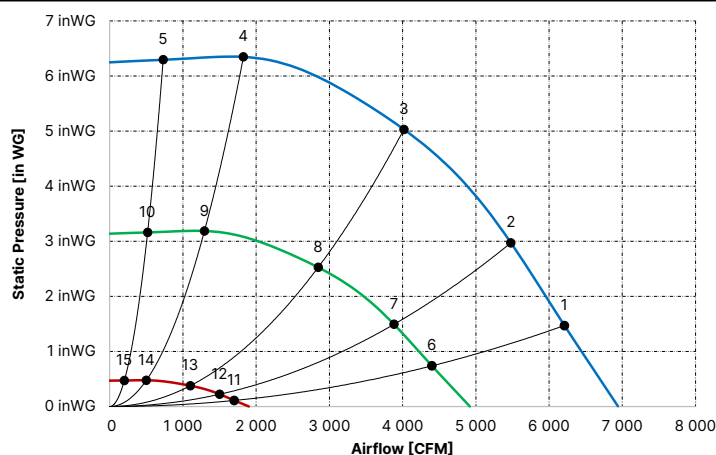
Fan Efficiency Grade (FEG), AMCA 205-10

80

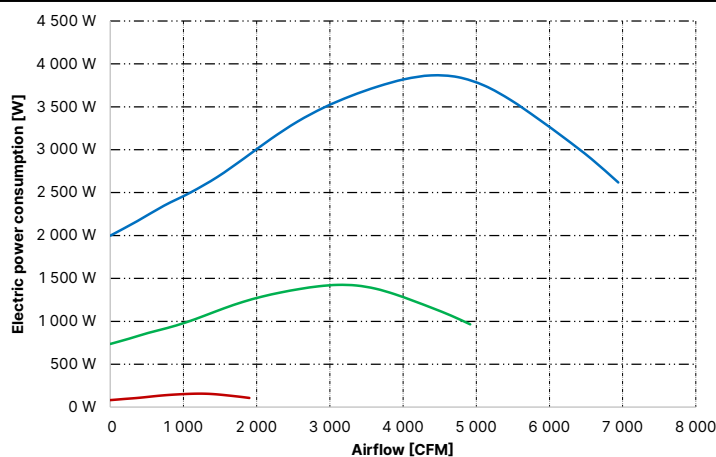
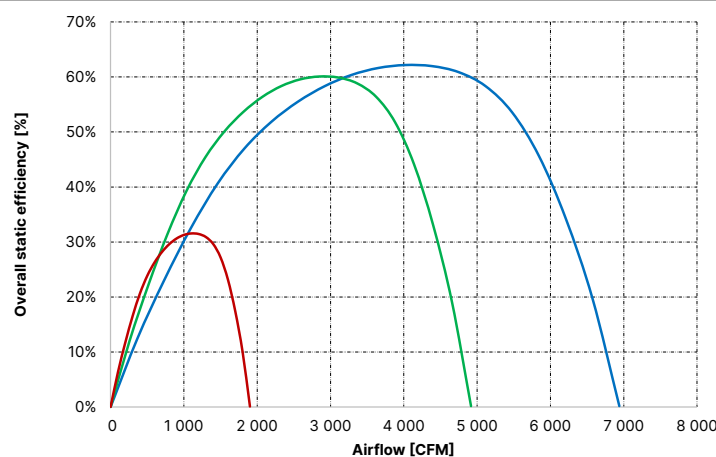
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	2 300	6 209	1.47	5.0	3.13	79.1	87.1	93.2	0.83
2	2 300	5 478	2.97	5.7	3.57	78.2	86.2	92.3	1.19
3	2 300	4 018	5.03	6.0	3.82	75.3	83.3	89.2	1.35
4	2 300	1 826	6.35	4.7	2.90	81.7	89.7	94.9	1.05
5	2 300	730	6.29	3.9	2.35	83.0	91.0	96.5	0.60
6	1 630	4 400	0.74	2.2	1.15	71.6	79.6	85.7	0.97
7	1 630	3 883	1.49	2.4	1.32	70.7	78.7	84.8	1.27
8	1 630	2 847	2.53	2.5	1.41	67.8	75.8	81.7	1.38
9	1 630	1 294	3.19	2.0	1.07	74.2	82.2	87.4	1.10
10	1 630	518	3.16	1.7	0.86	75.5	83.5	89.0	0.67
11	630	1 701	0.11	0.7	0.13	51.0	59.0	65.1	1.67
12	630	1 501	0.22	0.7	0.14	50.1	58.1	64.2	1.60
13	630	1 100	0.38	0.7	0.15	47.2	55.2	61.1	1.44
14	630	500	0.48	0.6	0.12	53.6	61.6	66.8	1.19
15	630	200	0.47	0.6	0.10	54.9	62.9	68.4	0.89

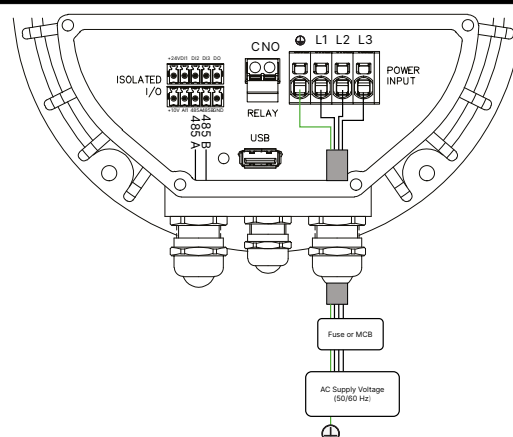
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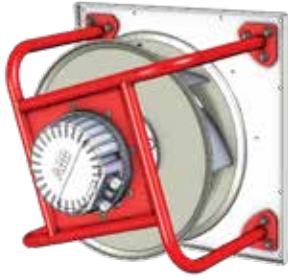
EPC = f(V)

 $\eta_{es} = f(V)$ 

Power supply and control connections



Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

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Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Model	SR-A450-FSEC-RTB/5.6-ABB-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	5.70 kW / 7.8 A
Revolutions: Min / Nominal	300 ÷ 2600 RPM
CAV K-factor	208
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	93 Lbs

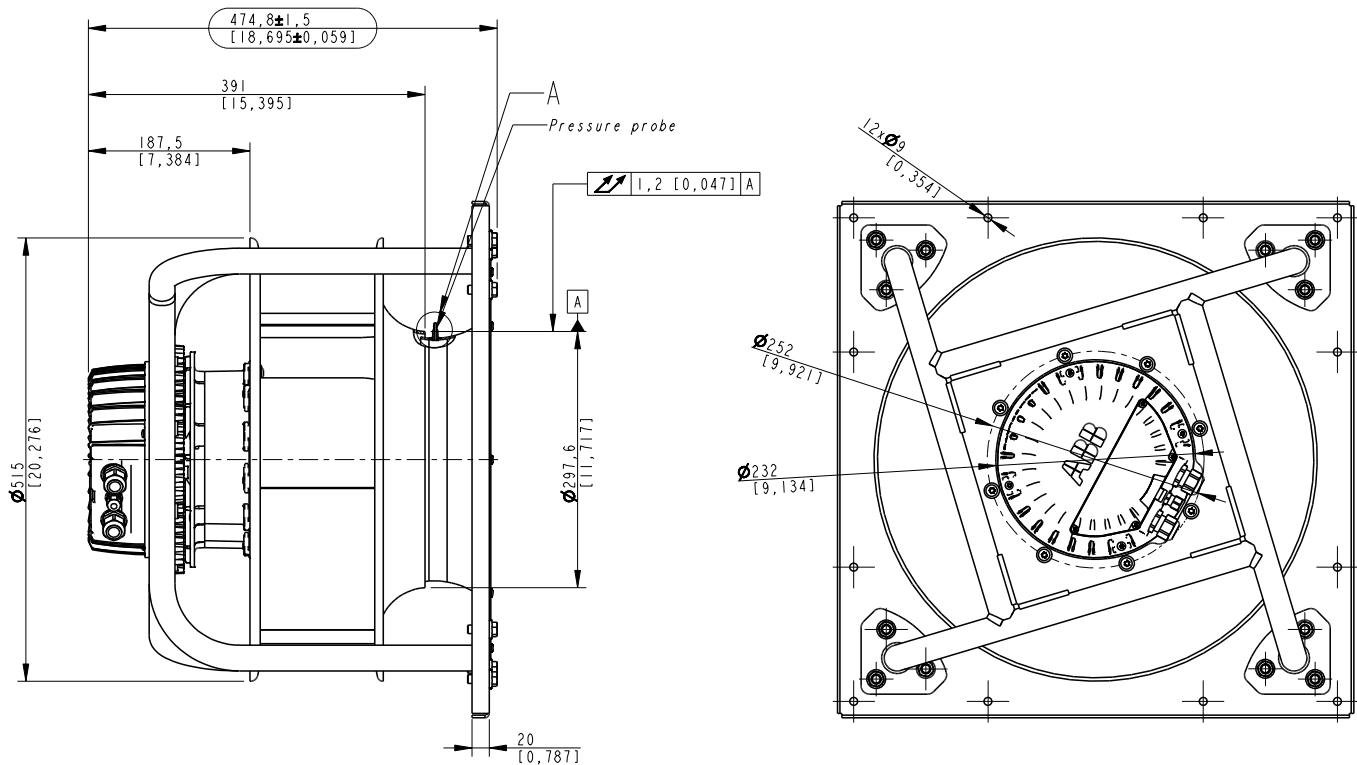
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	40 000 h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	450 mm / Aerofoil / 7
Spinning direction	Clockwise, wiewed from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation (EU) 327/2011 Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	62.7%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	5.56 kW
9	Air flow q_v	4 831 CFM
	Pressure increase pfs	5.92 inWG
10	Speed (rpm) n	2 600
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



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SR-A450-FSEC-RTB/5.6-ABB-A EC Fan

shown herein are 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.

- Power rating does not include transmission losses.
- Performance ratings do not include the effects of appurtenances.
- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
- LpAin dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

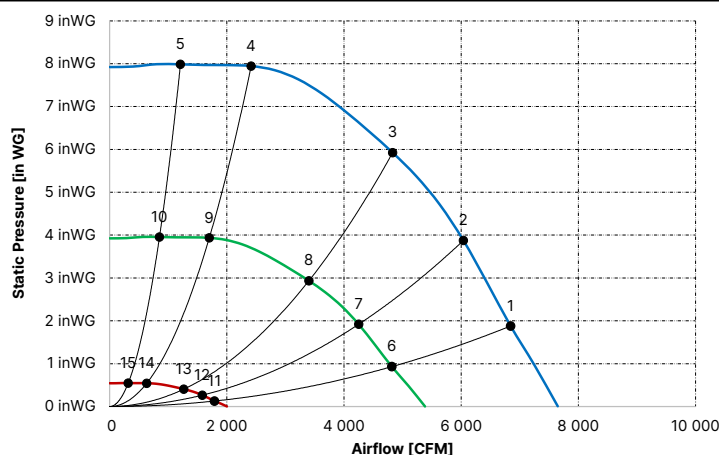
Fan Efficiency Grade (FEG), AMCA 205-10

80

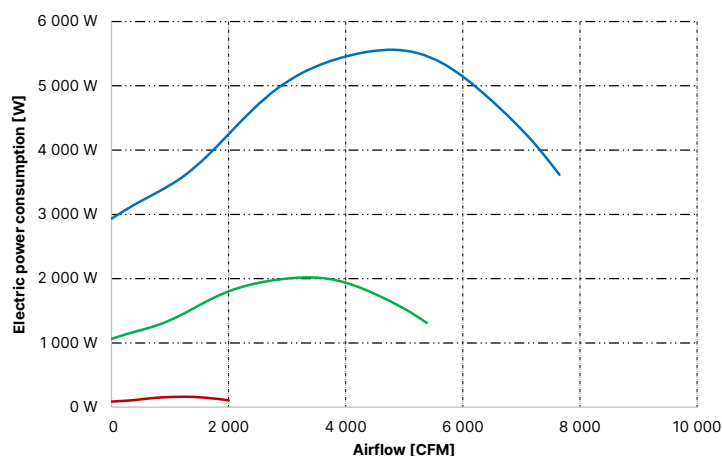
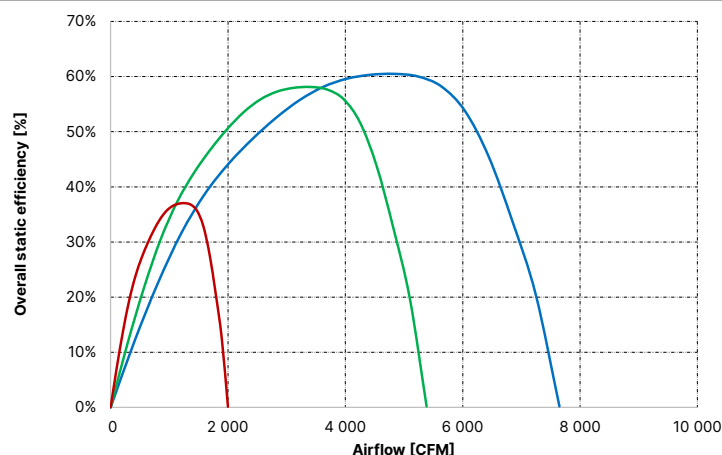
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L _{pAin} dB(A)	L _{wAin} dB(A)	L _{wAout} dB(A)	FEI
1	2 600	6 843	1.88	6.7	4.47	81.4	89.4	95.6	0.79
2	2 600	6 038	3.88	7.6	5.12	80.7	88.7	94.8	1.18
3	2 600	4 831	5.92	8.2	5.56	78.1	86.1	91.9	1.31
4	2 600	2 415	7.95	6.9	4.63	83.7	91.7	96.7	1.06
5	2 600	1 208	7.98	5.5	3.58	85.7	93.7	99.1	0.74
6	1 830	4 817	0.93	2.8	1.62	73.7	81.7	88.0	0.89
7	1 830	4 250	1.92	3.1	1.86	73.1	81.1	87.1	1.21
8	1 830	3 400	2.93	3.3	2.02	70.5	78.5	84.2	1.30
9	1 830	1 700	3.94	2.9	1.68	76.0	84.0	89.1	1.08
10	1 830	850	3.96	2.3	1.30	78.1	86.1	91.5	0.78
11	680	1 790	0.13	0.7	0.13	52.2	60.2	66.5	1.76
12	680	1 579	0.27	0.8	0.15	51.6	59.6	65.7	1.73
13	680	1 263	0.41	0.8	0.16	49.0	57.0	62.7	1.59
14	680	632	0.54	0.7	0.14	54.5	62.5	67.6	1.31
15	680	316	0.55	0.7	0.10	56.6	64.6	70.0	1.09

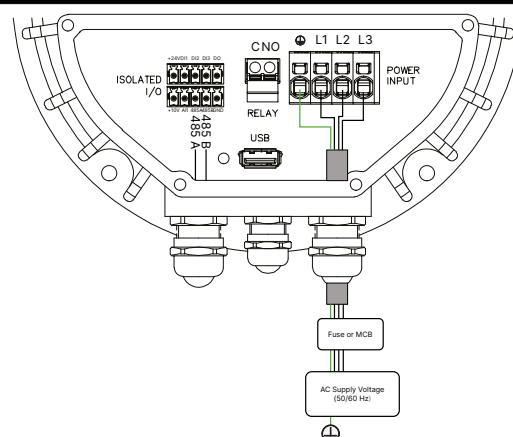
dP = f(V)



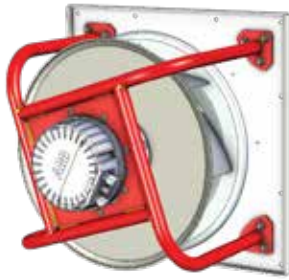
EPC = f(V)

 $\eta_{es} = f(V)$ 

Power supply and control connections



Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LWA according to ISO 13347.

General specification

Model	SR-A500-FSEC-RTB/3.7-ABB-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	4.00 kW / 6.1 A
Revolutions: Min / Nominal	300 ÷ 1900 RPM
CAV K-factor	253
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	104 Lbs

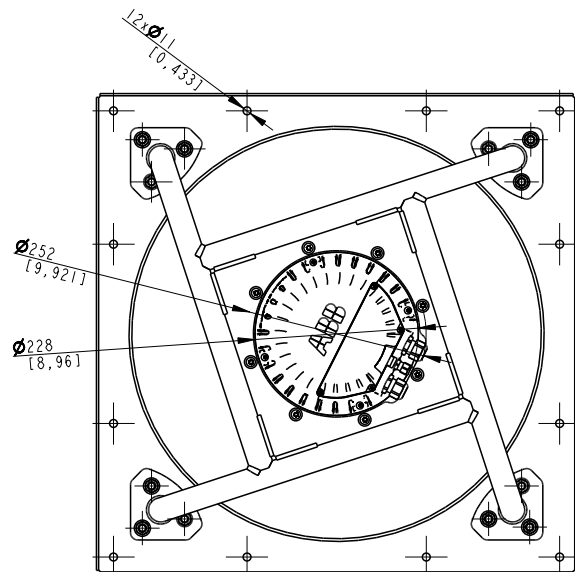
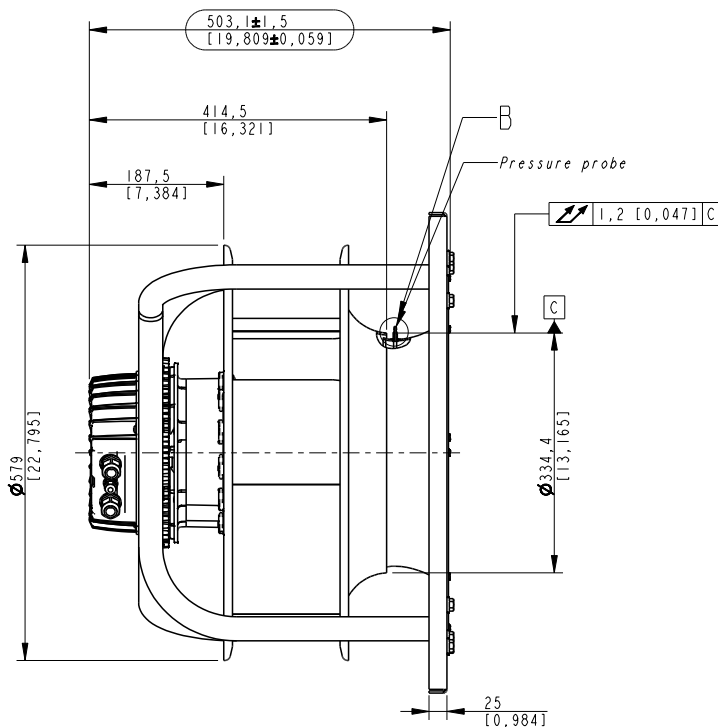
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	40 000 h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	500 mm / Aerofoil / 7
Spinning direction	Clockwise, wiewed from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation (EU) 327/2011 Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	67.3%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	3.83 kW
9	Air flow q_v	5 191 CFM
	Pressure increase p_{fs}	4.03 inWG
10	Speed (rpm) n	1 900
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



Swiss Rotors Sp. z o.o. certifies that the

SR-A500-FSEC-RTB/3.7-ABB-A EC Fan

shown herein are 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.

- Power rating does not include transmission losses.
- Performance ratings do not include the effects of appurtenances.
- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
- L_{pAin} dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

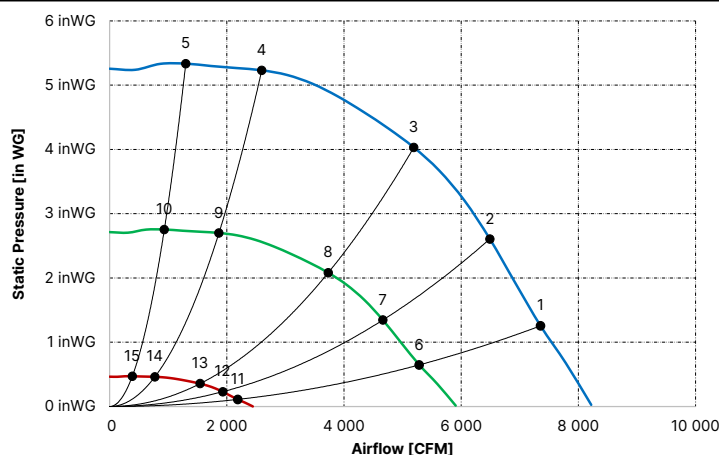
Fan Efficiency Grade (FEG), AMCA 205-10

85

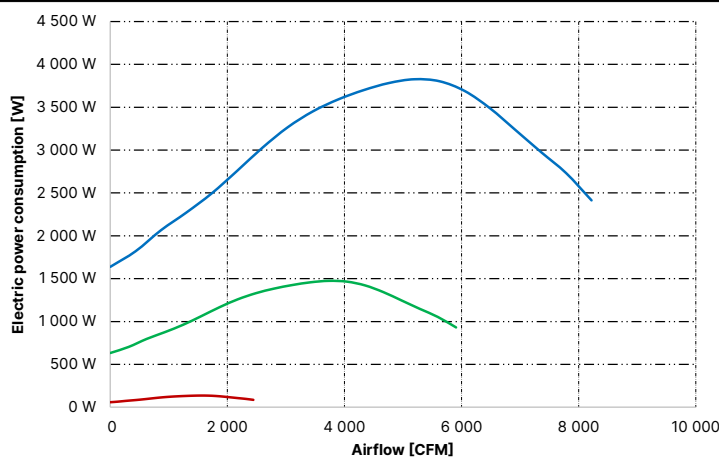
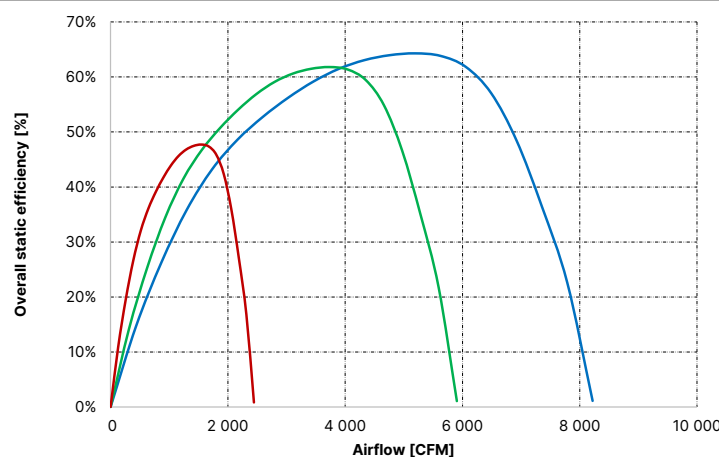
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	1900	7 354	1.26	5.4	2.98	79.3	87.3	93.0	0.92
2	1900	6 489	2.61	6.2	3.49	77.5	85.5	91.6	1.28
3	1900	5 191	4.03	6.7	3.83	74.9	82.9	88.6	1.40
4	1900	2 595	5.23	5.4	3.03	79.7	87.7	92.7	1.16
5	1900	1 298	5.33	4.3	2.27	82.1	90.1	95.5	0.84
6	1365	5 283	0.65	2.5	1.15	72.1	80.1	85.9	1.07
7	1365	4 662	1.35	2.8	1.34	70.3	78.3	84.4	1.37
8	1365	3 729	2.08	3.0	1.48	67.7	75.7	81.4	1.44
9	1365	1 865	2.70	2.5	1.17	72.5	80.5	85.5	1.20
10	1365	932	2.75	2.1	0.88	74.9	82.9	88.3	0.90
11	565	2 187	0.11	0.9	0.11	53.0	61.0	66.7	2.51
12	565	1 930	0.23	0.9	0.12	51.1	59.1	65.3	2.36
13	565	1 544	0.36	0.9	0.14	48.6	56.6	62.2	2.12
14	565	772	0.46	0.9	0.11	53.4	61.4	66.4	1.75
15	565	386	0.47	0.8	0.08	55.7	63.7	69.2	1.47

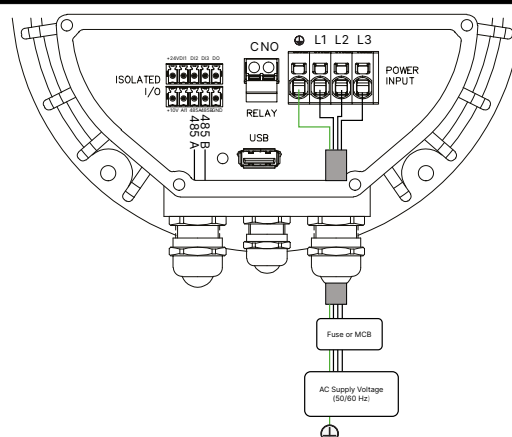
dP = f(V)



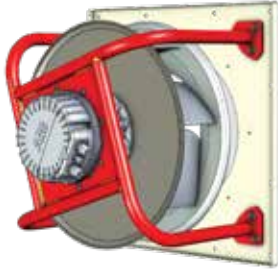
EPC = f(V)

 $\eta_{es} = f(V)$ 

Power supply and control connections



Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Model	SR-A500-FSEC-RTB/5.6-ABB-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	5.35 kW / 7.4 A
Revolutions: Min / Nominal	300 ÷ 2120 RPM
CAV K-factor	250
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	117 Lbs

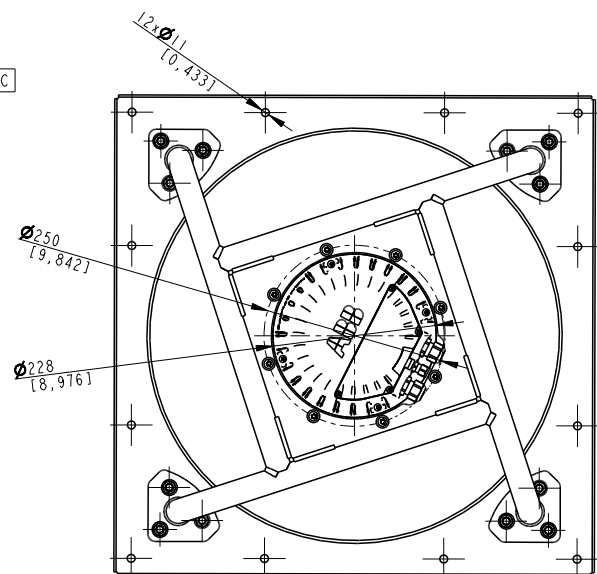
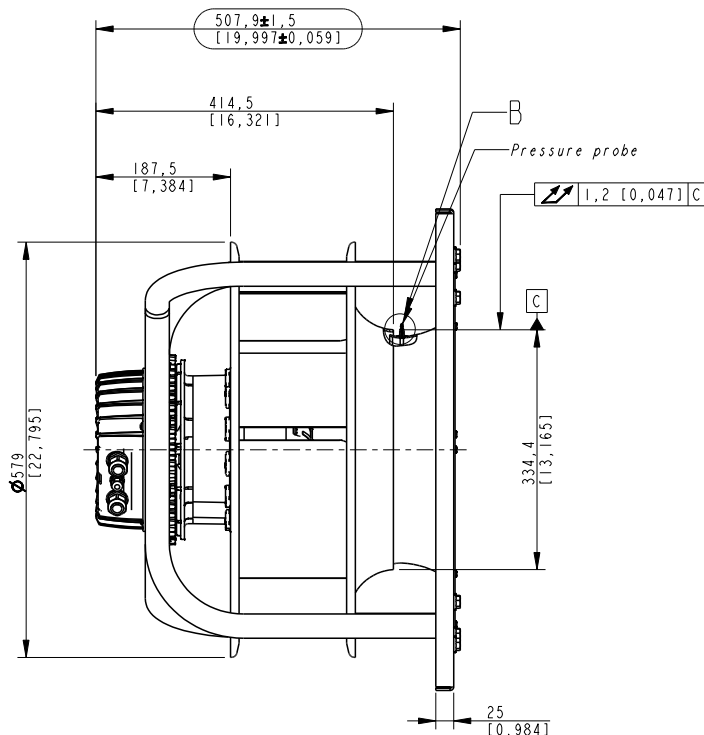
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	40 000 h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	500 mm / Aerofoil / 7
Spinning direction	Clockwise, wieved from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation (EU) 327/2011 Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	65.9%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	5.11 kW
9	Air flow q_v	5 673 CFM
	Pressure increase p_{fs}	4.86 inWG
10	Speed (rpm) n	2 120
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



Swiss Rotors Sp. z o.o. certifies that the

SR-A500-FSEC-RTB/5.6-ABB-A EC Fan

shown herein are 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.

- Power rating does not include transmission losses.
- Performance ratings do not include the effects of appurtenances.
- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
- L_{pAin} dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

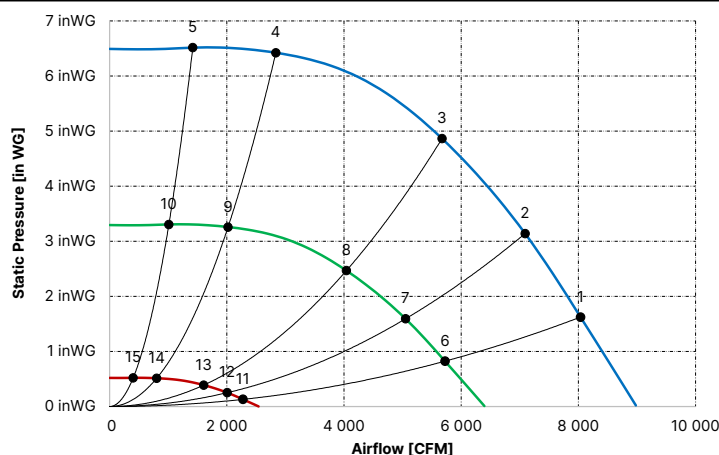
Fan Efficiency Grade (FEG), AMCA 205-10

80

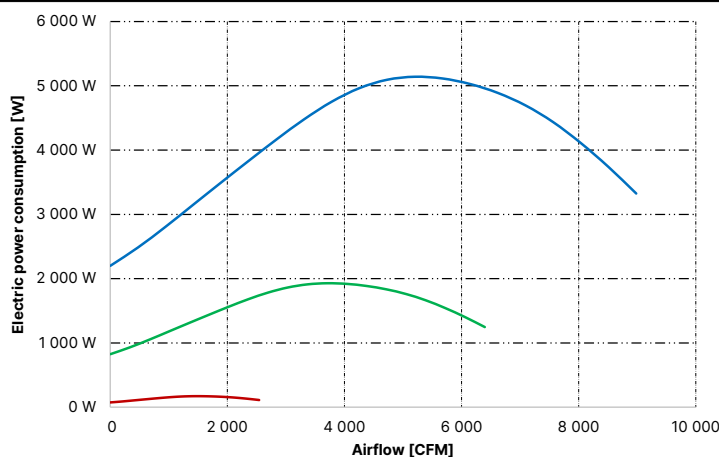
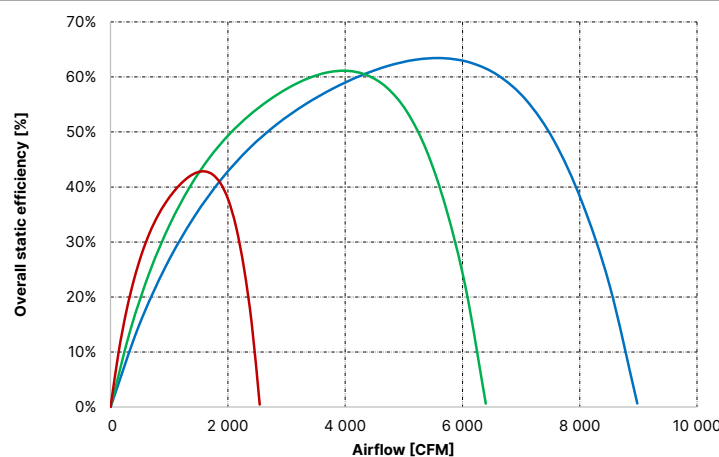
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	2 120	8 036	1.62	6.4	4.11	81.1	89.1	95.0	0.89
2	2 120	7 091	3.14	7.3	4.69	79.7	87.7	93.9	1.24
3	2 120	5 673	4.86	7.9	5.11	77.2	85.2	90.8	1.38
4	2 120	2 836	6.42	6.5	4.16	82.2	90.2	95.2	1.12
5	2 120	1 418	6.51	5.1	3.15	84.5	92.5	97.9	0.79
6	1 510	5 724	0.82	2.8	1.54	73.7	81.7	87.7	1.01
7	1 510	5 051	1.59	3.1	1.76	72.4	80.4	86.5	1.29
8	1 510	4 040	2.47	3.3	1.92	69.8	77.8	83.5	1.39
9	1 510	2 020	3.26	2.8	1.56	74.8	82.8	87.9	1.14
10	1 510	1 010	3.30	2.3	1.18	77.1	85.1	90.5	0.84
11	600	2 274	0.13	0.8	0.14	53.7	61.7	67.6	2.06
12	600	2 007	0.25	0.8	0.16	52.3	60.3	66.5	1.98
13	600	1 605	0.39	0.8	0.17	49.7	57.7	63.4	1.81
14	600	803	0.51	0.8	0.14	54.8	62.8	67.8	1.46
15	600	401	0.52	0.7	0.11	57.0	65.0	70.5	1.21

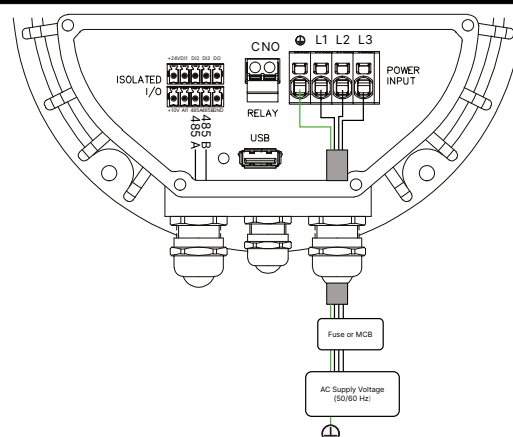
dP = f(V)



EPC = f(V)

 $\eta_{es} = f(V)$ 

Power supply and control connections



Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LWA according to ISO 13347.

General specification

Model	SR-A560-FSEC-RTB/5.6-ABB-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	5.50 kW / 7.8 A
Revolutions: Min / Nominal	300 ÷ 1800 RPM
CAV K-factor	326
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	115 Lbs

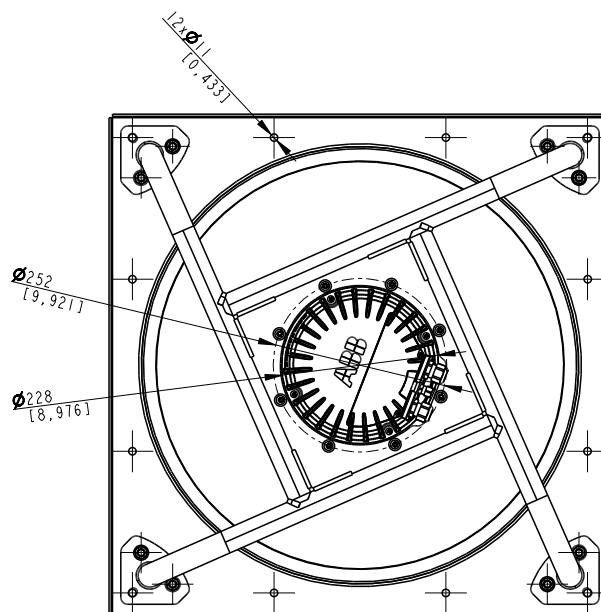
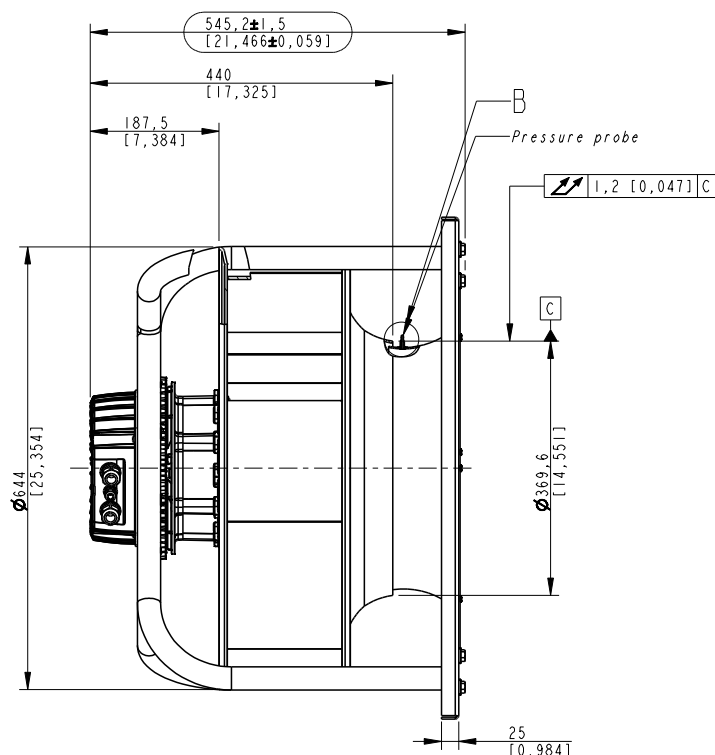
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	40 000 h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	560 mm / Aerofoil / 7
Spinning direction	Clockwise, wiewed from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation (EU) 327/2011 Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	67.2%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	5.23 kW
9	Air flow q_v	6 348 CFM
	Pressure increase p_{fs}	4.53 inWG
10	Speed (rpm) n	1 800
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



Swiss Rotors Sp. z o.o. certifies that the

SR-A560-FSEC-RTB/5.6-ABB-A EC Fan

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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.

- Power rating does not include transmission losses.
- Performance ratings do not include the effects of appurtenances.
- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
- L_{pAin} dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

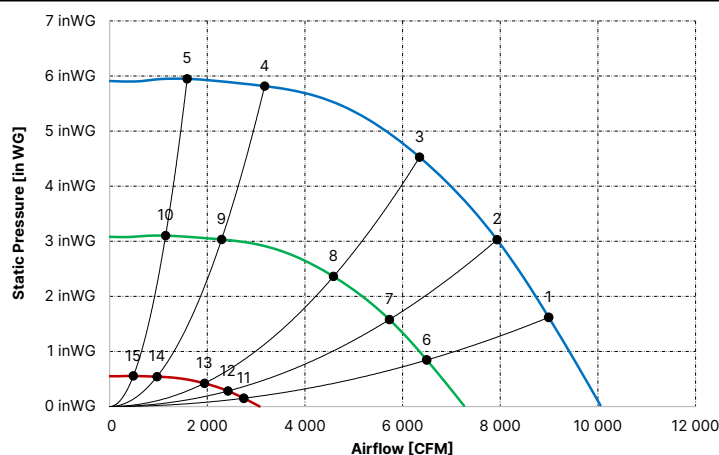
Fan Efficiency Grade (FEG), AMCA 205-10

80

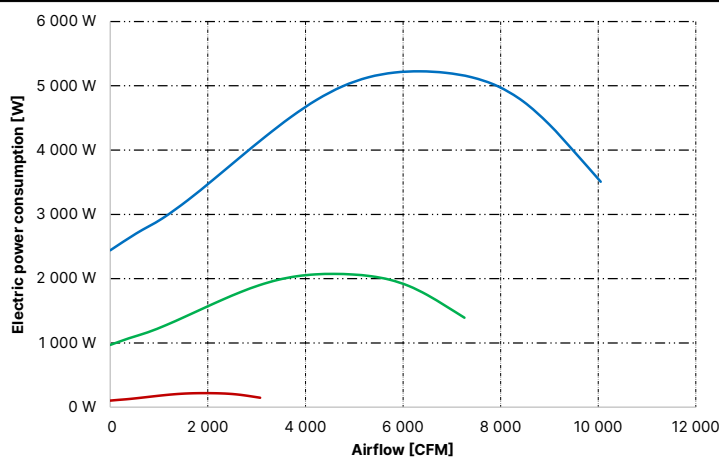
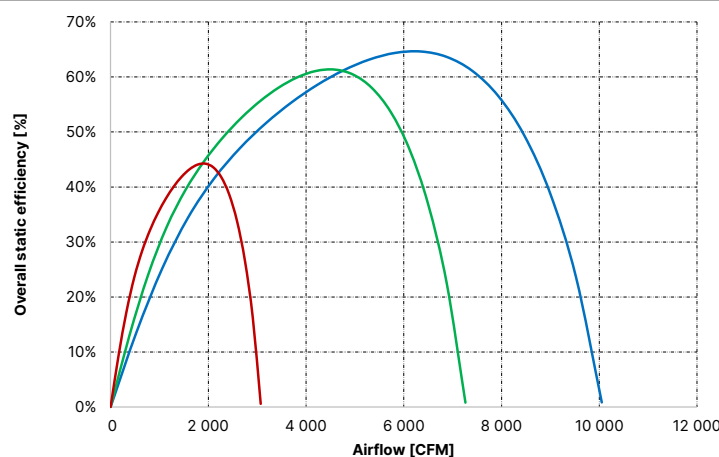
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	1 800	8 993	1.62	6.9	4.40	80.0	88.0	94.2	0.93
2	1 800	7 935	3.03	7.7	5.00	79.0	87.0	93.0	1.26
3	1 800	6 348	4.53	8.1	5.23	76.7	84.7	90.5	1.41
4	1 800	3 174	5.82	6.6	4.21	82.4	90.4	95.5	1.12
5	1 800	1 587	5.95	5.2	3.22	84.4	92.4	97.8	0.78
6	1 300	6 495	0.84	3.1	1.75	72.9	80.9	87.1	1.03
7	1 300	5 731	1.58	3.4	1.98	72.0	80.0	86.0	1.29
8	1 300	4 585	2.36	3.5	2.07	69.6	77.6	83.4	1.40
9	1 300	2 292	3.03	2.9	1.67	75.3	83.3	88.4	1.12
10	1 300	1 146	3.10	2.4	1.28	77.3	85.3	90.7	0.81
11	550	2 748	0.15	0.8	0.18	54.2	62.2	68.4	1.91
12	550	2 425	0.28	0.8	0.21	53.3	61.3	67.3	1.86
13	550	1 940	0.42	0.9	0.22	51.0	59.0	64.7	1.75
14	550	970	0.54	0.8	0.18	56.7	64.7	69.7	1.39
15	550	485	0.56	0.7	0.13	58.6	66.6	72.1	1.11

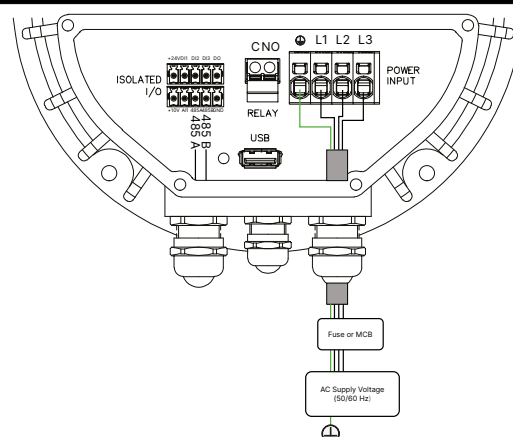
dP = f(V)



EPC = f(V)

 $\eta_{es} = f(V)$ 

Power supply and control connections



Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

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Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Model	AF-A630-FSEC-RTB/5.6-ABB-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	5.80 kW / 8.3 A
Revolutions: Min / Nominal	500 ÷ 1440 RPM
CAV K-factor	495
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	128 Lbs

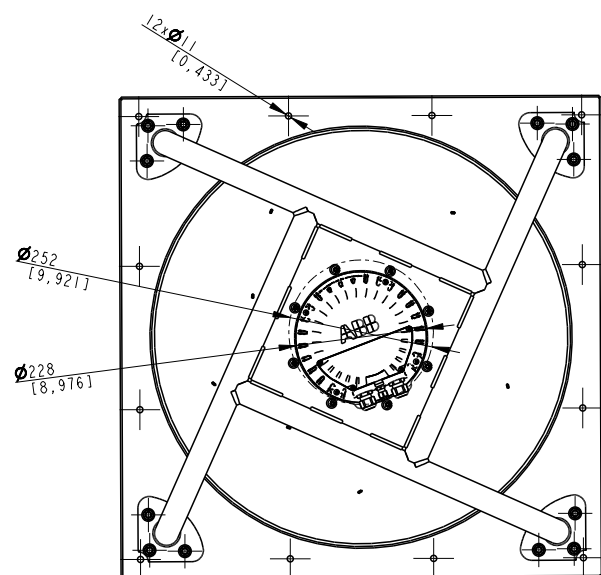
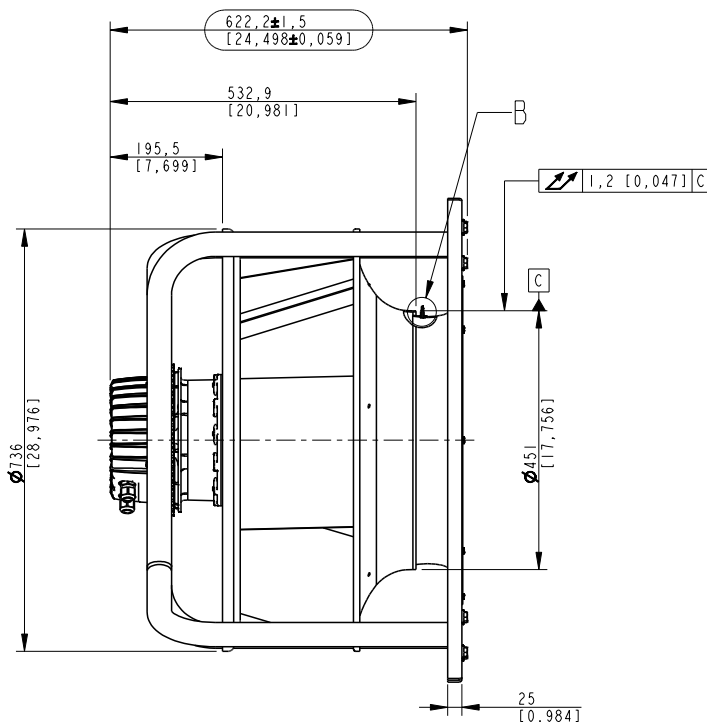
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	40 000 h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	630 mm / Aerofoil / 5
Spinning direction	Clockwise, wiewed from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation (EU) 327/2011 Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	70.6%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	5.57 kW
9	Air flow q_v	7 913 CFM
	Pressure increase pfs	4.08 inWG
10	Speed (rpm) n	1 440
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



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- Performance ratings do not include the effects of appurtenances.
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- FEI calculation is based on wire-to-air tests.
- L_{pAin} dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

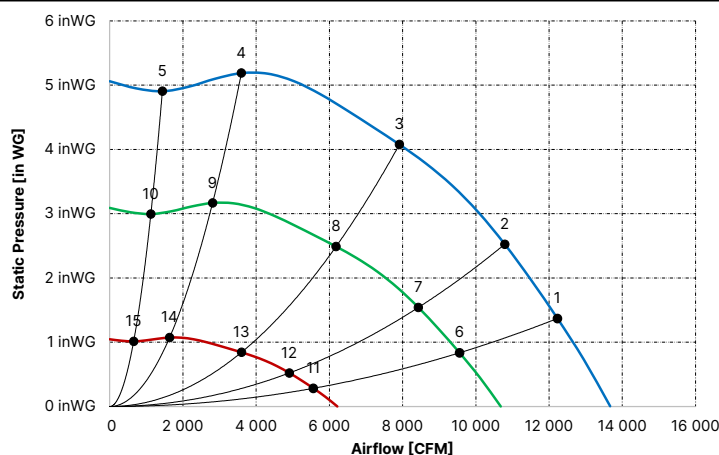
Fan Efficiency Grade (FEG), AMCA 205-10

85

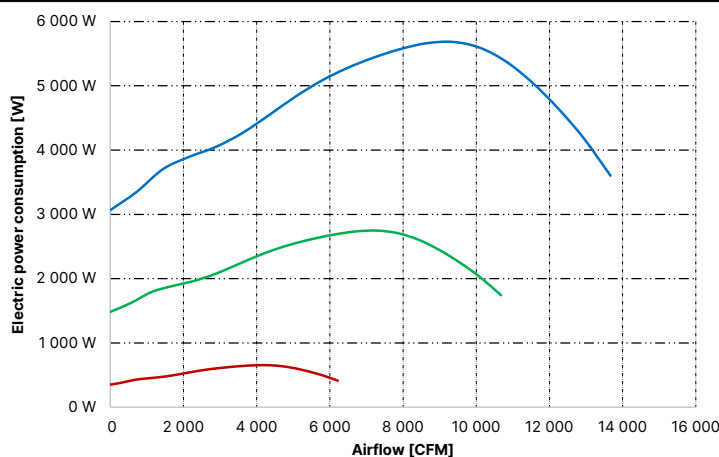
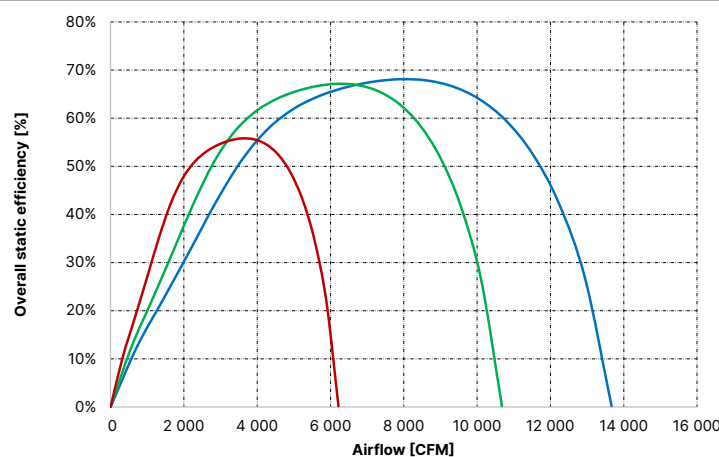
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	1 440	12 229	1.37	7.3	4.65	81.2	89.2	94.6	1.05
2	1 440	10 790	2.53	8.3	5.39	79.4	87.4	93.5	1.36
3	1 440	7 913	4.08	8.6	5.57	75.9	83.9	89.6	1.50
4	1 440	3 597	5.19	6.7	4.26	81.2	89.2	94.2	1.12
5	1 440	1 439	4.91	5.9	3.70	83.2	91.2	96.6	0.52
6	1 125	9 554	0.84	3.8	2.25	75.9	83.9	89.3	1.17
7	1 125	8 430	1.54	4.4	2.61	74.1	82.1	88.1	1.42
8	1 125	6 182	2.49	4.5	2.69	70.6	78.6	84.2	1.52
9	1 125	2 810	3.17	3.6	2.06	75.8	83.8	88.9	1.14
10	1 125	1 124	2.99	3.2	1.79	77.9	85.9	91.2	0.55
11	655	5 562	0.28	1.4	0.53	64.1	72.1	77.5	1.58
12	655	4 908	0.52	1.5	0.62	62.3	70.3	76.4	1.63
13	655	3 599	0.84	1.5	0.64	58.8	66.8	72.5	1.59
14	655	1 636	1.07	1.3	0.49	64.1	72.1	77.1	1.20
15	655	654	1.02	1.2	0.43	66.1	74.1	79.5	0.64

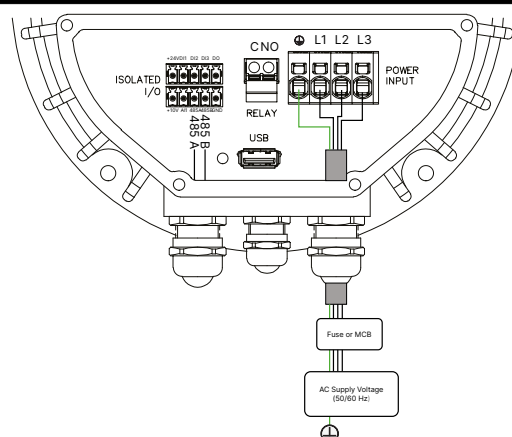
dP = f(V)



EPC = f(V)

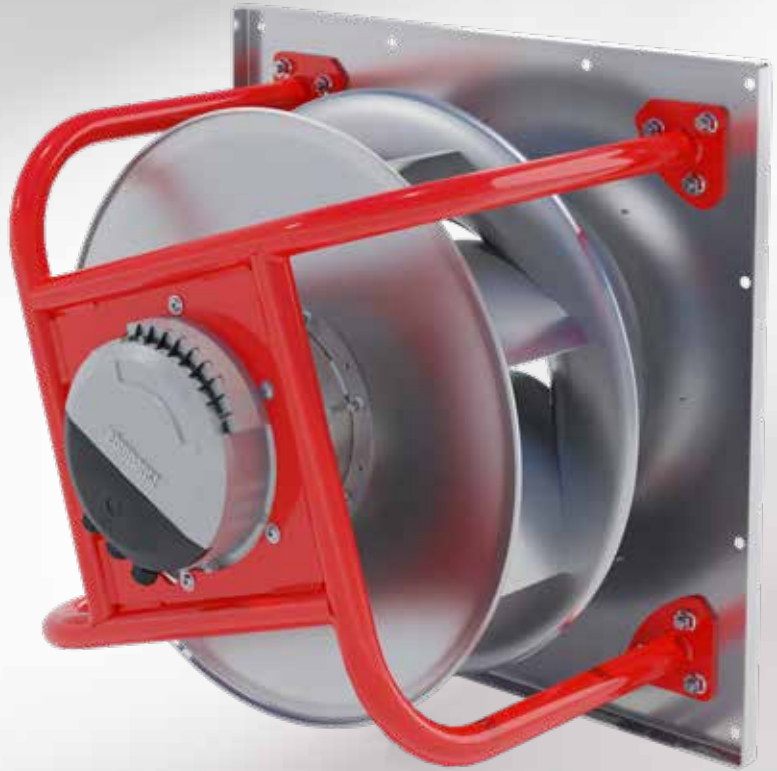
 $\eta_{es} = f(V)$ 

Power supply and control connections



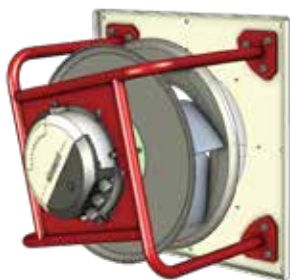
400-630 mm EC Fan Sets

EMB motors



SR-A400-FSEC-RTB1.6-EBM
SR-A400-FSEC-RTB2.5-EBM
SR-A400-FSEC-RTB3.7-EBM
SR-A450-FSEC-RTB1.6-EBM
SR-A450-FSEC-RTB2.5-EBM
SR-A450-FSEC-RTB3.7-EBM
SR-A500-FSEC-RTB3.7-EBM
SR-A560-FSEC-RTB3.7-EBM
AF-A630-FSEC-RTB5.3-EBM

Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Model	SR-A400-FSEC-RTB/1.6-EBM-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	1.90 kW / 3.0 A
Revolutions: Min / Nominal	300 ÷ 2200 RPM
CAV K-factor	165
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	66 Lbs

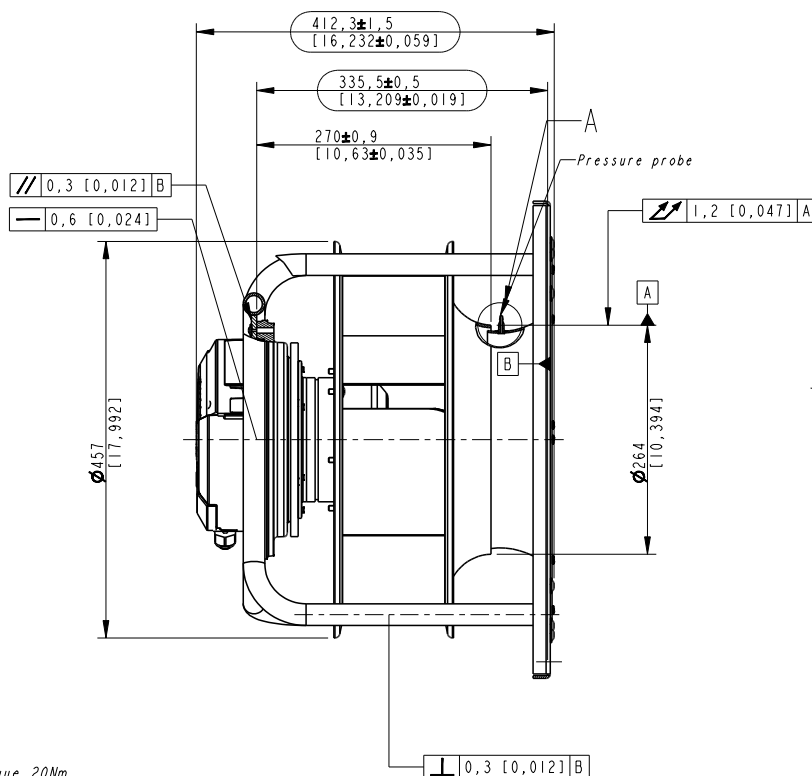
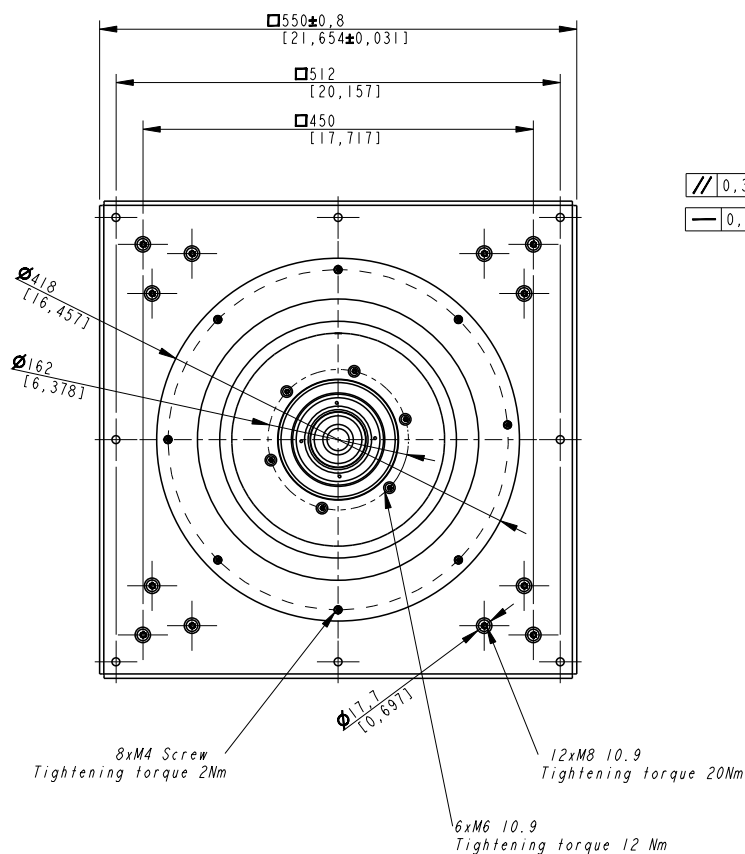
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	26 500 h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	400 mm / Aerofoil / 7
Spinning direction	Clockwise, wiewed from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation (EU) 327/2011 Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	63.8%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	1.75 kW
9	Air flow q_v	2 704 CFM
	Pressure increase pfs	3.27 inWG
10	Speed (rpm) n	2 200
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



Swiss Rotors Sp. z o.o. certifies that the

SR-A400-FSEC-RTB1.6-EBM-A EC Fan EC Fan

shown herein are 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.

- Power rating does not include transmission losses.
- Performance ratings do not include the effects of appurtenances.
- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
- L_{pAin} dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

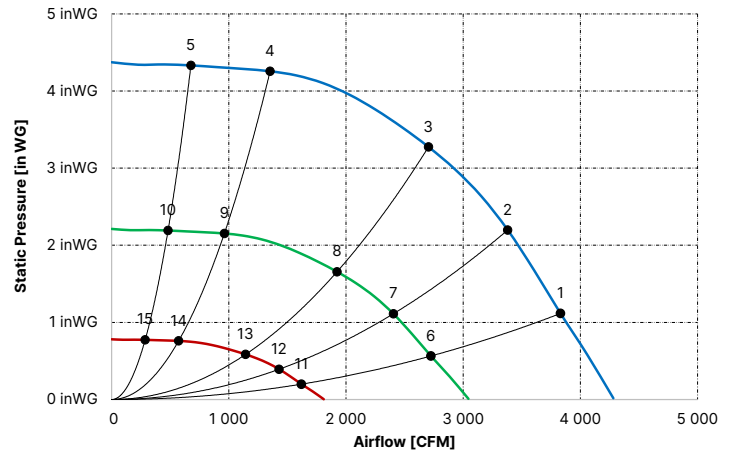
Fan Efficiency Grade (FEG), AMCA 205-10

80

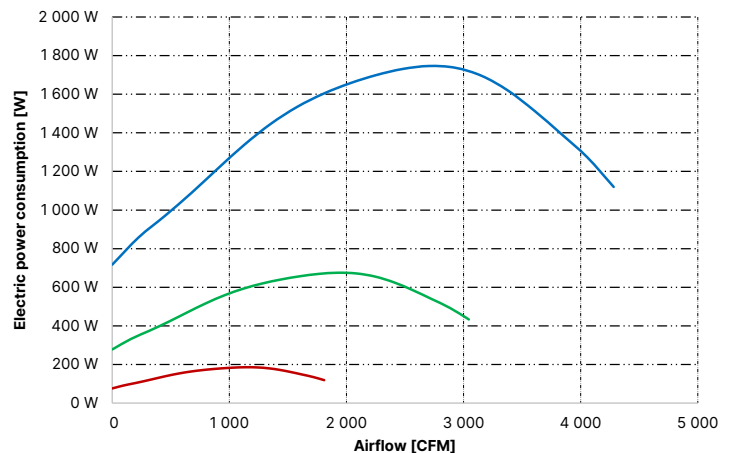
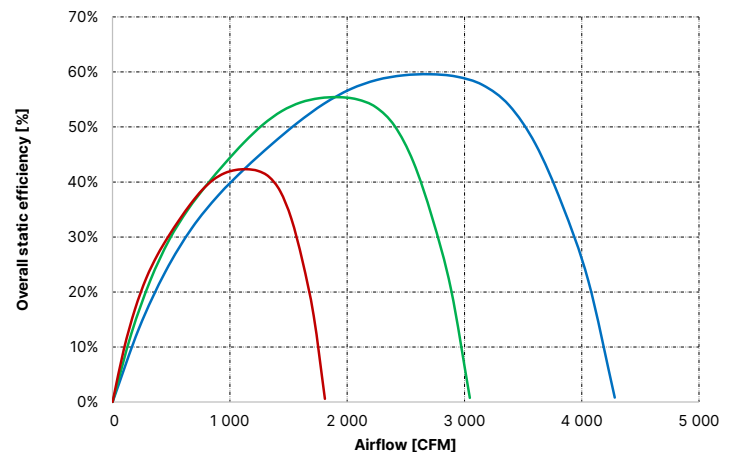
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	2 200	3 830	1.12	2.7	1.40	73.8	81.8	88.0	0.94
2	2 200	3 380	2.20	3.0	1.62	72.3	80.3	86.1	1.25
3	2 200	2 704	3.27	3.2	1.75	70.8	78.8	84.6	1.34
4	2 200	1 352	4.26	2.8	1.45	76.7	84.7	89.8	1.10
5	2 200	676	4.33	2.2	1.09	78.5	86.5	91.9	0.85
6	1 565	2 725	0.56	1.4	0.54	66.5	74.5	80.6	1.12
7	1 565	2 404	1.11	1.5	0.63	64.9	72.9	78.7	1.36
8	1 565	1 923	1.66	1.6	0.68	63.4	71.4	77.2	1.40
9	1 565	962	2.15	1.4	0.56	69.3	77.3	82.4	1.17
10	1 565	481	2.19	1.2	0.42	71.1	79.1	84.5	0.95
11	930	1 619	0.20	0.8	0.15	55.2	63.2	69.3	1.60
12	930	1 429	0.39	0.8	0.17	53.6	61.6	67.4	1.64
13	930	1 143	0.59	0.9	0.19	52.1	60.1	65.9	1.57
14	930	571	0.76	0.8	0.15	58.0	66.0	71.1	1.32
15	930	286	0.77	0.8	0.12	59.8	67.8	73.2	1.16

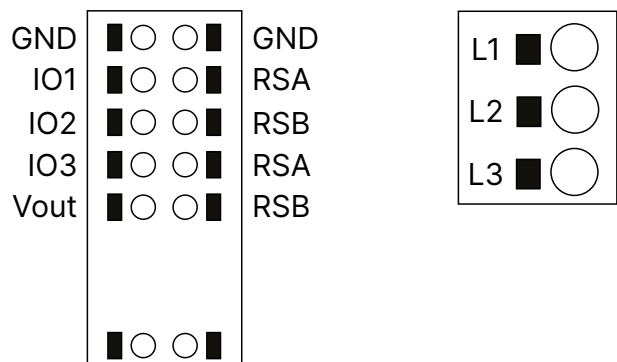
dP = f(V)



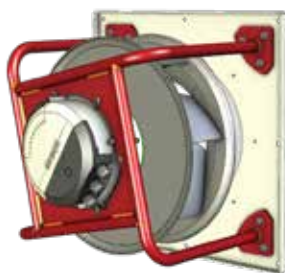
EPC = f(V)

 $\eta_{es} = f(V)$ 

Power supply and control connections



Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Model	SR-A400-FSEC-RTB/2.5-EBM-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	2.40 kW / 3.8 A
Revolutions: Min / Nominal	300 ÷ 2400 RPM
CAV K-factor	164
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	66 Lbs

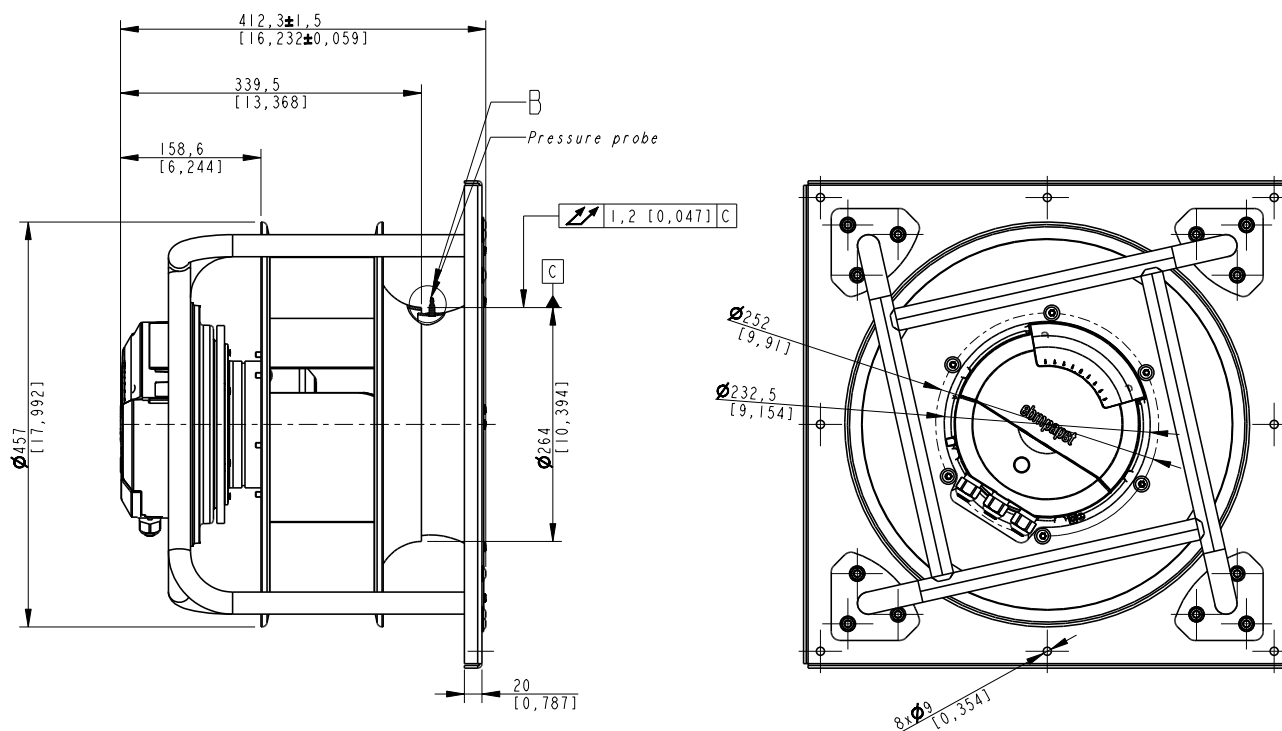
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	26 500 h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	400 mm / Aerofoil / 7
Spinning direction	Clockwise, wiewed from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation (EU) 327/2011 Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	65.5%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	2.23 kW
9	Air flow q_v	2 968 CFM
	Pressure increase p_{fs}	3.93 inWG
10	Speed (rpm) n	2 400
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



Swiss Rotors Sp. z o.o. certifies that the

SR-A400-FSEC-RTB2.5-EBM-A EC Fan EC Fan

shown herein are 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.

- Power rating does not include transmission losses.
- Performance ratings do not include the effects of appurtenances.
- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
- L_{pAin} dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

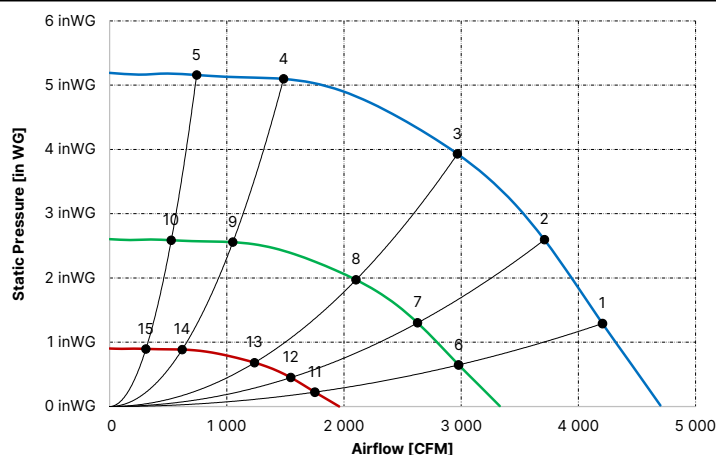
Fan Efficiency Grade (FEG), AMCA 205-10

80

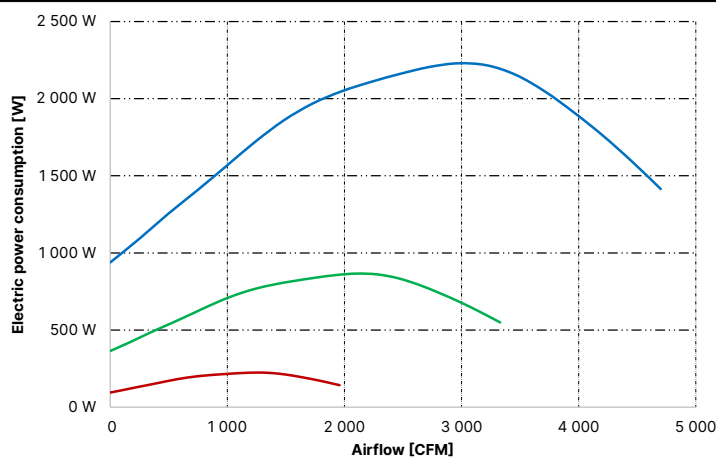
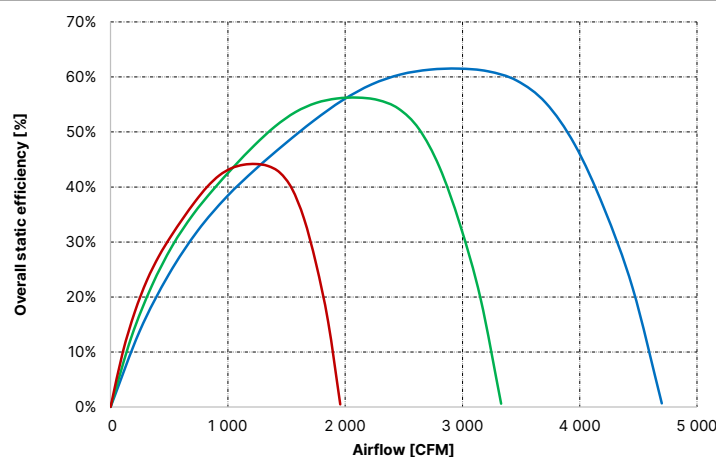
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	2 400	4 205	1.29	3.1	1.76	75.8	83.8	89.9	0.91
2	2 400	3 710	2.59	3.6	2.05	74.3	82.3	88.1	1.25
3	2 400	2 968	3.93	3.8	2.23	72.7	80.7	86.5	1.36
4	2 400	1 484	5.10	3.3	1.86	78.6	86.6	91.7	1.10
5	2 400	742	5.16	2.6	1.41	80.4	88.4	93.8	0.83
6	1 700	2 979	0.65	1.5	0.68	68.3	76.3	82.4	1.05
7	1 700	2 628	1.30	1.7	0.80	66.8	74.8	80.6	1.31
8	1 700	2 103	1.97	1.8	0.87	65.2	73.2	79.0	1.37
9	1 700	1 051	2.56	1.6	0.72	71.1	79.1	84.2	1.13
10	1 700	526	2.59	1.3	0.55	72.9	80.9	86.3	0.90
11	1 000	1 752	0.22	0.7	0.18	56.8	64.8	70.9	1.50
12	1 000	1 546	0.45	0.8	0.21	55.3	63.3	69.1	1.57
13	1 000	1 237	0.68	0.8	0.22	53.6	61.6	67.5	1.52
14	1 000	618	0.88	0.7	0.19	59.6	67.6	72.7	1.26
15	1 000	309	0.90	0.7	0.14	61.4	69.4	74.8	1.09

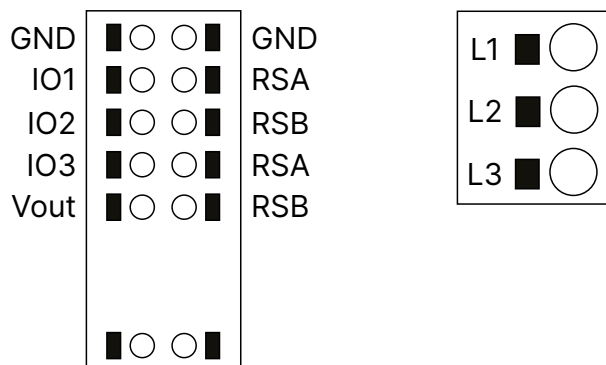
dP = f(V)



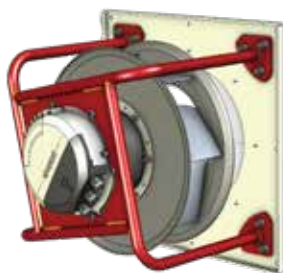
EPC = f(V)

 $\eta_{es} = f(V)$ 

Power supply and control connections



Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Model	SR-A400-FSEC-RTB/3.7-EBM-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	3.70 kW / 5.2 A
Revolutions: Min / Nominal	300 ÷ 2800 RPM
CAV K-factor	165
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	90 Lbs

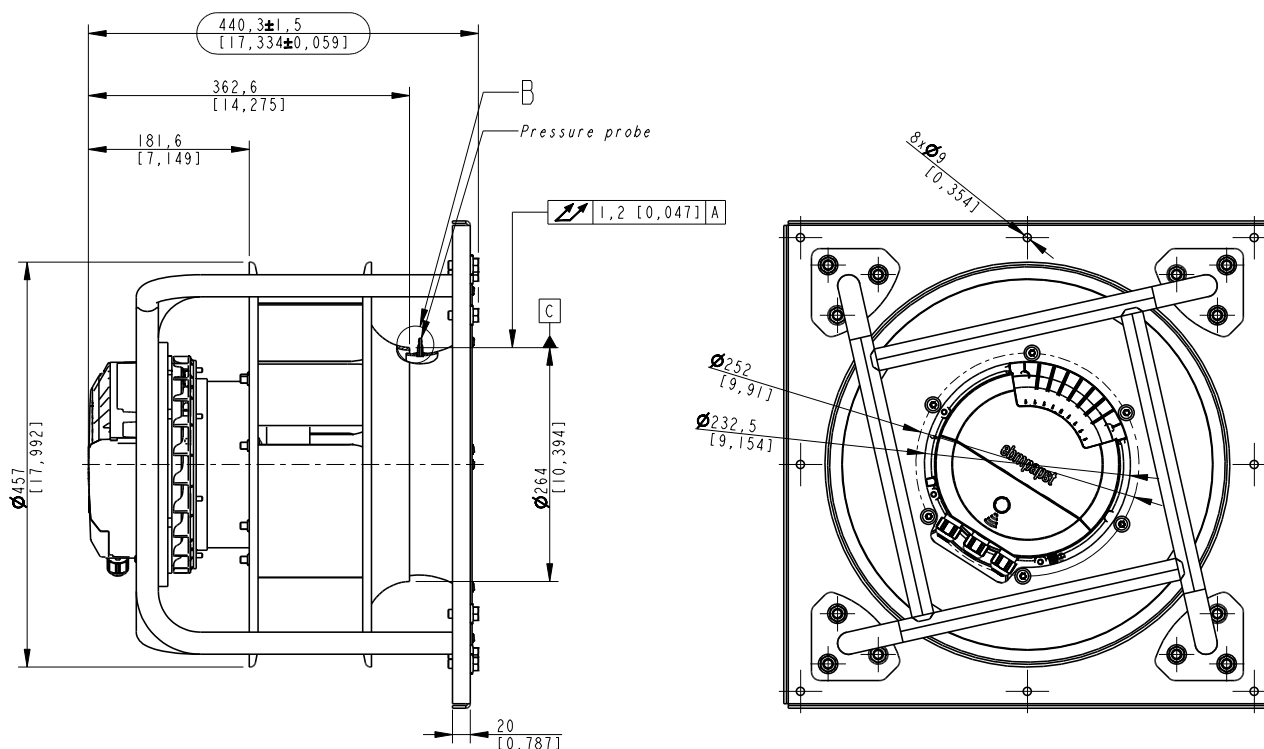
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	26 500 h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	400 mm / Aerofoil / 7
Spinning direction	Clockwise, wiewed from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation (EU) 327/2011 Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	64.4%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	3.49 kW
9	Air flow q_v	3 182 CFM
	Pressure increase p_{fs}	5.72 inWG
10	Speed (rpm) n	2 800
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



Swiss Rotors Sp. z o.o. certifies that the

SR-A400-FSEC-RTB3.7-EBM-A EC Fan EC Fan

shown herein are 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.

- Power rating does not include transmission losses.
- Performance ratings do not include the effects of appurtenances.
- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
- L_{pAin} dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

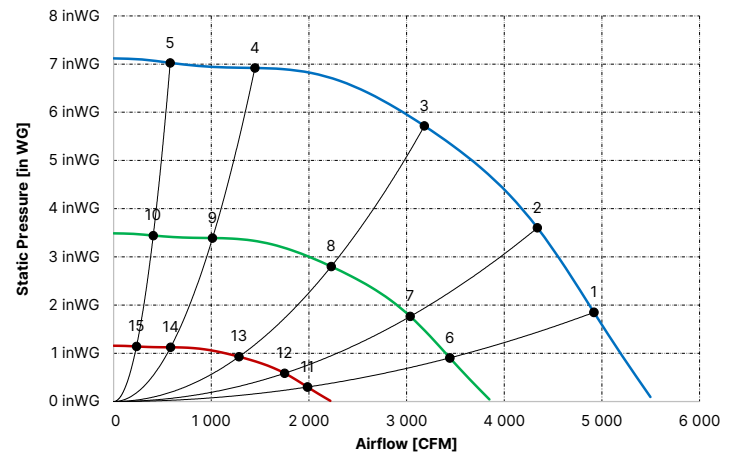
Fan Efficiency Grade (FEG), AMCA 205-10

80

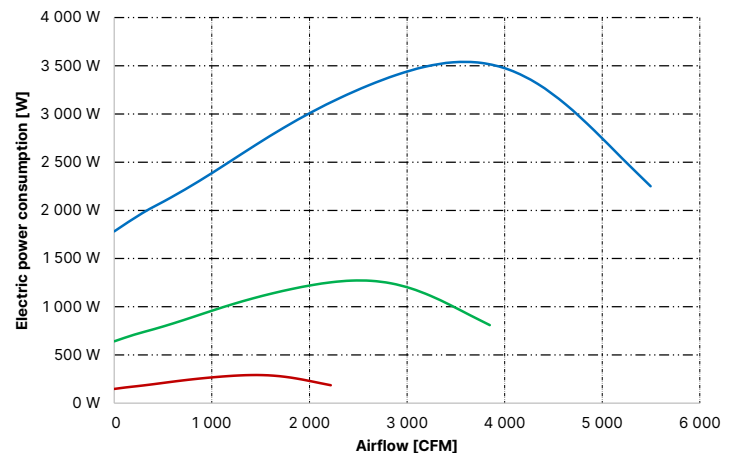
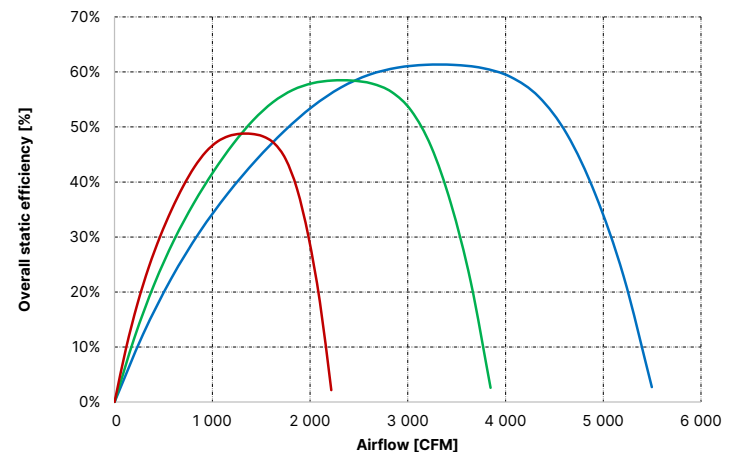
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	2 800	4 918	1.85	4.6	2.83	79.1	87.1	93.3	0.89
2	2 800	4 339	3.60	5.3	3.31	77.7	85.7	91.5	1.22
3	2 800	3 182	5.72	5.6	3.49	76.1	84.1	90.1	1.33
4	2 800	1 446	6.92	4.3	2.68	82.7	90.7	95.9	1.00
5	2 800	579	7.02	3.5	2.13	83.7	91.7	97.1	0.61
6	1 960	3 442	0.91	1.9	1.02	71.4	79.4	85.5	1.01
7	1 960	3 037	1.77	2.1	1.19	69.9	77.9	83.8	1.28
8	1 960	2 227	2.80	2.2	1.25	68.3	76.3	82.4	1.35
9	1 960	1 012	3.39	1.8	0.96	74.9	82.9	88.2	1.05
10	1 960	405	3.44	1.5	0.77	75.9	83.9	89.4	0.69
11	1 130	1 985	0.30	0.7	0.23	59.4	67.4	73.6	1.42
12	1 130	1 751	0.59	0.7	0.27	58.0	66.0	71.8	1.53
13	1 130	1 284	0.93	0.8	0.29	56.4	64.4	70.4	1.50
14	1 130	584	1.13	0.7	0.22	63.0	71.0	76.2	1.22
15	1 130	233	1.14	0.6	0.18	64.0	72.0	77.4	0.90

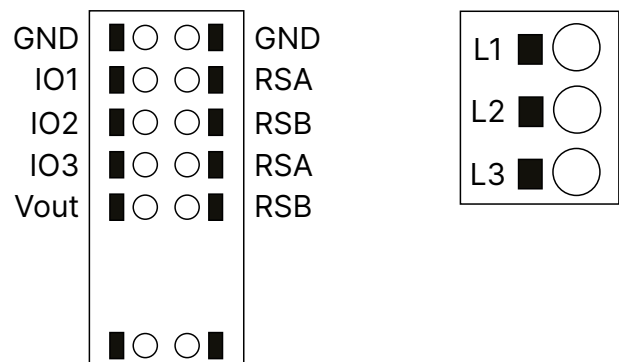
dP = f(V)



EPC = f(V)

 $\eta_{es} = f(V)$ 

Power supply and control connections



Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

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Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Model	SR-A450-FSEC-RTB/1.6-EBM-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	1.95 kW / 3.0 A
Revolutions: Min / Nominal	300 ÷ 1800 RPM
CAV K-factor	214
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	82 Lbs

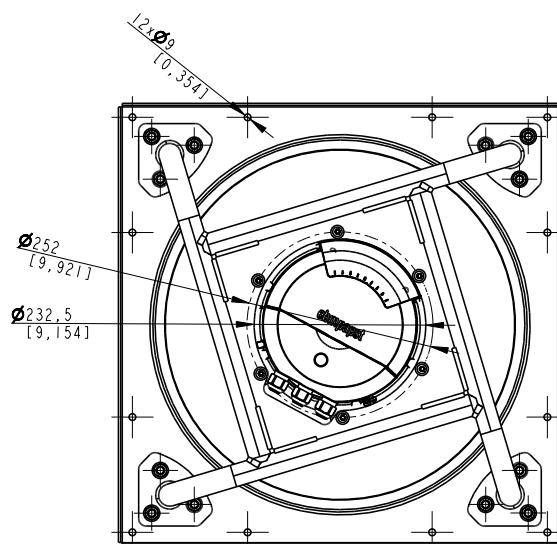
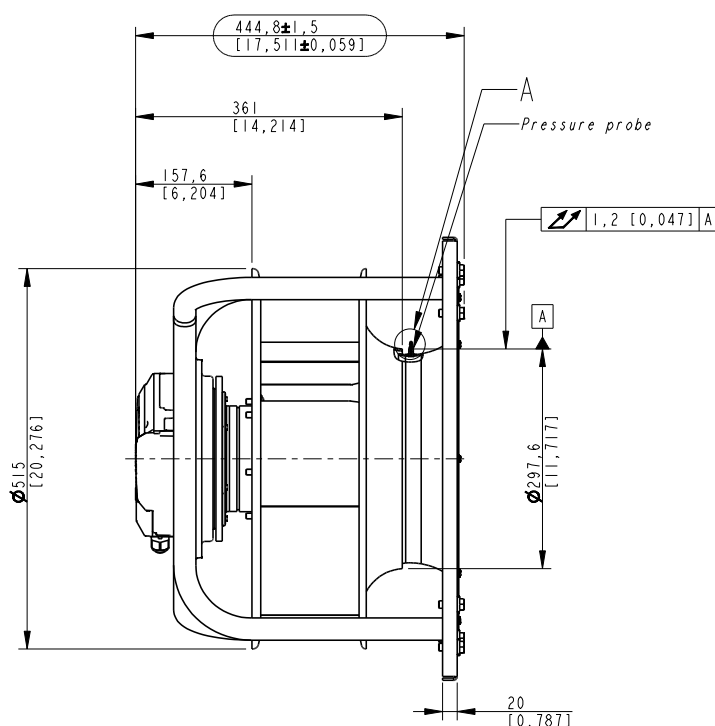
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	26 500 h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	450 mm / Aerofoil / 7
Spinning direction	Clockwise, wiewed from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation (EU) 327/2011 Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	65.5%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	1.84 kW
9	Air flow q_v	3 343 CFM
	Pressure increase p_{fs}	2.86 inWG
10	Speed (rpm) n	1 800
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



Swiss Rotors Sp. z o.o. certifies that the

SR-A450-FSEC-RTB1.6-EBM-A EC Fan EC Fan

shown herein are 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.

- Power rating does not include transmission losses.
- Performance ratings do not include the effects of appurtenances.
- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
- L_{pAin} dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

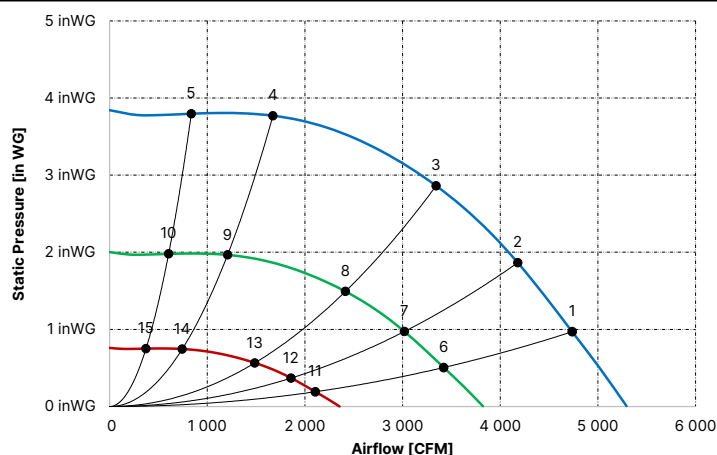
Fan Efficiency Grade (FEG), AMCA 205-10

80

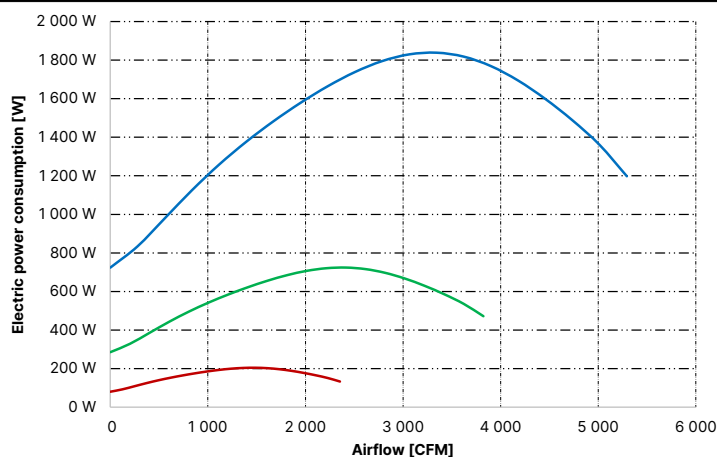
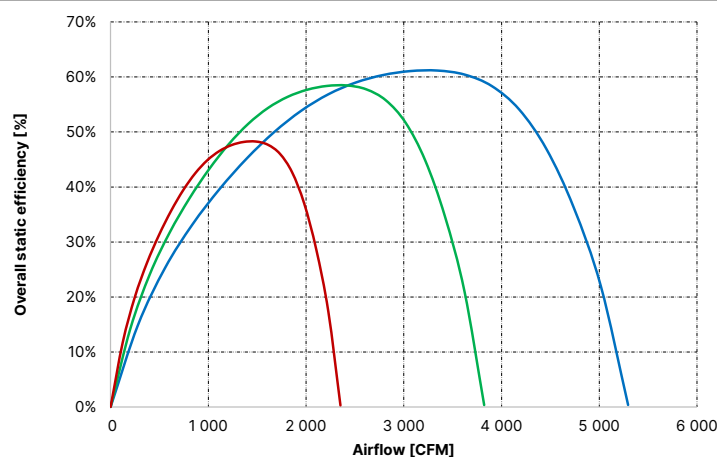
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	1 800	4 736	0.97	2.4	1.49	73.4	81.4	87.6	0.98
2	1 800	4 179	1.87	2.7	1.69	72.7	80.7	86.8	1.27
3	1 800	3 343	2.86	2.9	1.84	70.1	78.1	83.9	1.38
4	1 800	1 672	3.77	2.4	1.48	75.7	83.7	88.7	1.16
5	1 800	836	3.80	1.9	1.12	77.7	85.7	91.1	0.86
6	1 300	3 421	0.51	1.2	0.59	66.3	74.3	80.5	1.20
7	1 300	3 018	0.97	1.3	0.67	65.6	73.6	79.7	1.43
8	1 300	2 415	1.49	1.4	0.72	63.1	71.1	76.8	1.48
9	1 300	1 207	1.97	1.2	0.58	68.6	76.6	81.7	1.25
10	1 300	604	1.98	1.0	0.44	70.7	78.7	84.1	0.97
11	800	2 105	0.19	0.6	0.17	55.8	63.8	70.0	1.79
12	800	1 857	0.37	0.6	0.19	55.1	63.1	69.2	1.82
13	800	1 486	0.57	0.7	0.20	52.5	60.5	66.3	1.73
14	800	743	0.74	0.6	0.16	58.1	66.1	71.1	1.46
15	800	371	0.75	0.5	0.13	60.1	68.1	73.5	1.22

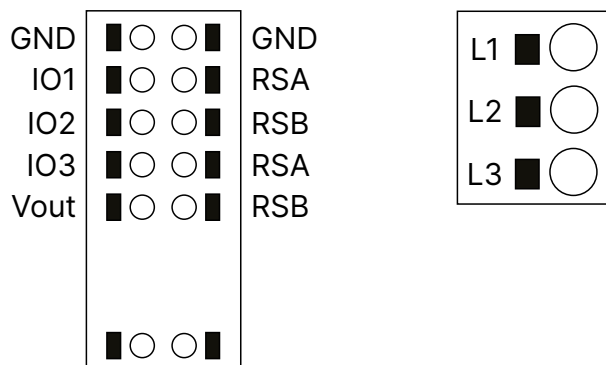
dP = f(V)



EPC = f(V)

 $\eta_{es} = f(V)$ 

Power supply and control connections



Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Model	SR-A450-FSEC-RTB/2.5-EBM-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	2.60 kW / 3.8 A
Revolutions: Min / Nominal	300 ÷ 2000 RPM
CAV K-factor	202
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	82 Lbs

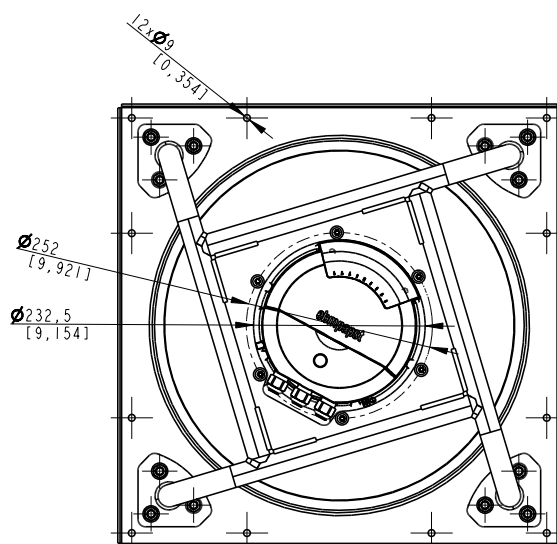
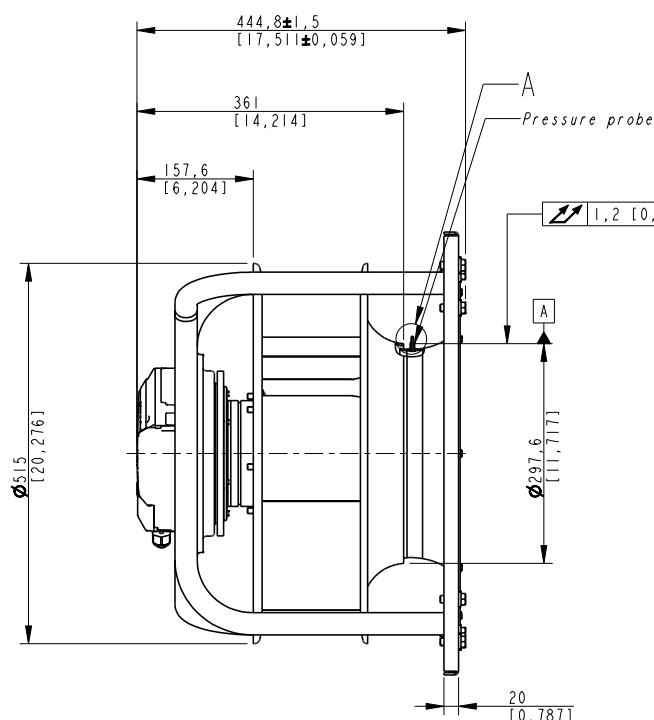
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	26 500 h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	450 mm / Aerofoil / 7
Spinning direction	Clockwise, wiewed from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation
(EU) 327/2011Requirements for fans driven by motors with an electric
input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	79.9%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	2.48 kW
9	Air flow q_v	3 475 CFM
	Pressure increase p_{fs}	3.79 inWG
10	Speed (rpm) n	2 000
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



Swiss Rotors Sp. z o.o. certifies that the

SR-A450-FSEC-RTB2.5-EBM-A EC Fan EC Fan

shown herein are 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.

- Power rating does not include transmission losses.
- Performance ratings do not include the effects of appurtenances.
- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
- L_{pAin} dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

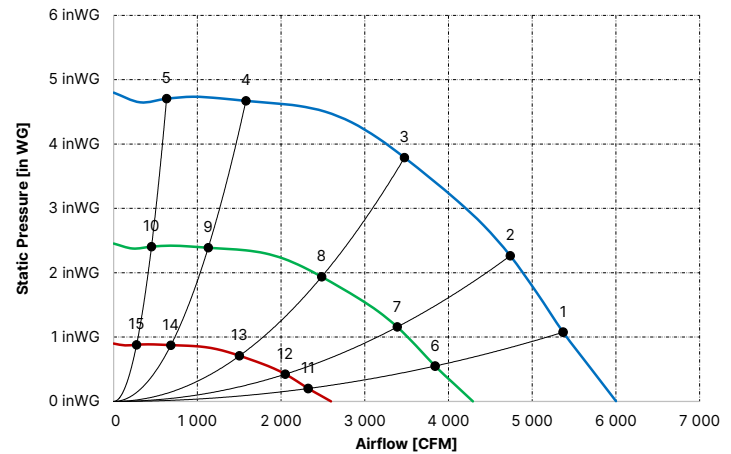
Fan Efficiency Grade (FEG), AMCA 205-10

80

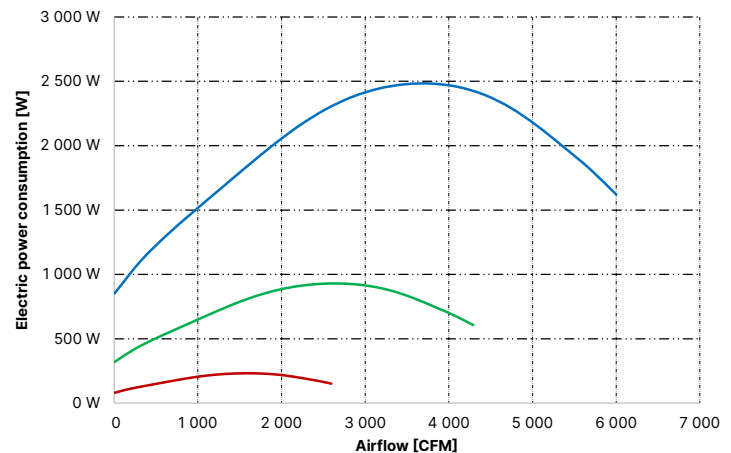
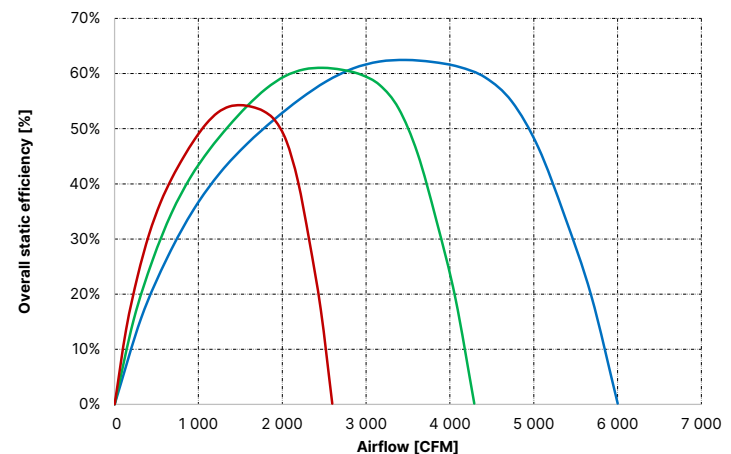
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	2 000	5 370	1.08	3.2	1.99	75.9	83.9	90.1	0.89
2	2 000	4 738	2.26	3.7	2.29	75.1	83.1	89.2	1.26
3	2 000	3 475	3.79	3.9	2.48	72.3	80.3	86.2	1.37
4	2 000	1 579	4.67	3.0	1.84	78.7	86.7	91.9	1.08
5	2 000	632	4.71	2.2	1.31	80.0	88.0	93.4	0.73
6	1 430	3 840	0.55	1.4	0.74	68.6	76.6	82.8	1.11
7	1 430	3 388	1.16	1.6	0.86	67.9	75.9	82.0	1.40
8	1 430	2 484	1.94	1.7	0.93	65.0	73.0	78.9	1.47
9	1 430	1 129	2.39	1.3	0.69	71.4	79.4	84.6	1.19
10	1 430	452	2.41	1.1	0.49	72.7	80.7	86.2	0.85
11	865	2 323	0.20	0.6	0.19	57.7	65.7	71.9	1.77
12	865	2 049	0.42	0.7	0.21	56.9	64.9	71.0	1.88
13	865	1 503	0.71	0.7	0.23	54.1	62.1	68.0	1.78
14	865	683	0.87	0.6	0.17	60.5	68.5	73.7	1.47
15	865	273	0.88	0.5	0.12	61.8	69.8	75.2	1.17

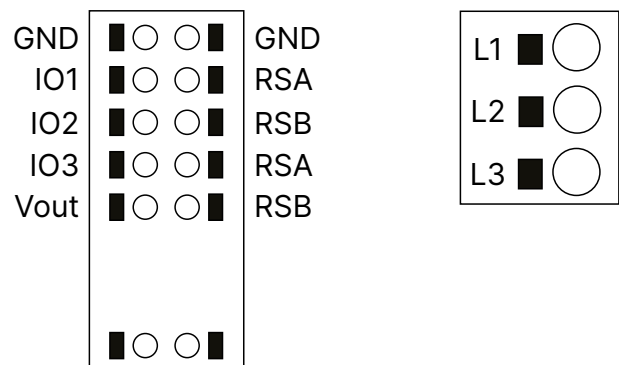
dP = f(V)



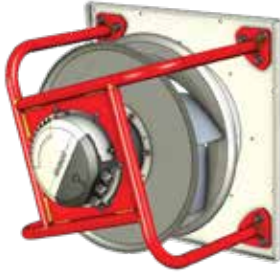
EPC = f(V)

 $\eta_{es} = f(V)$ 

Power supply and control connections



Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Model	SR-A450-FSEC-RTB/3.7-EBM-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	3.70 kW / 4.6 A
Revolutions: Min / Nominal	300 ÷ 2300 RPM
CAV K-factor	203
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	106 Lbs

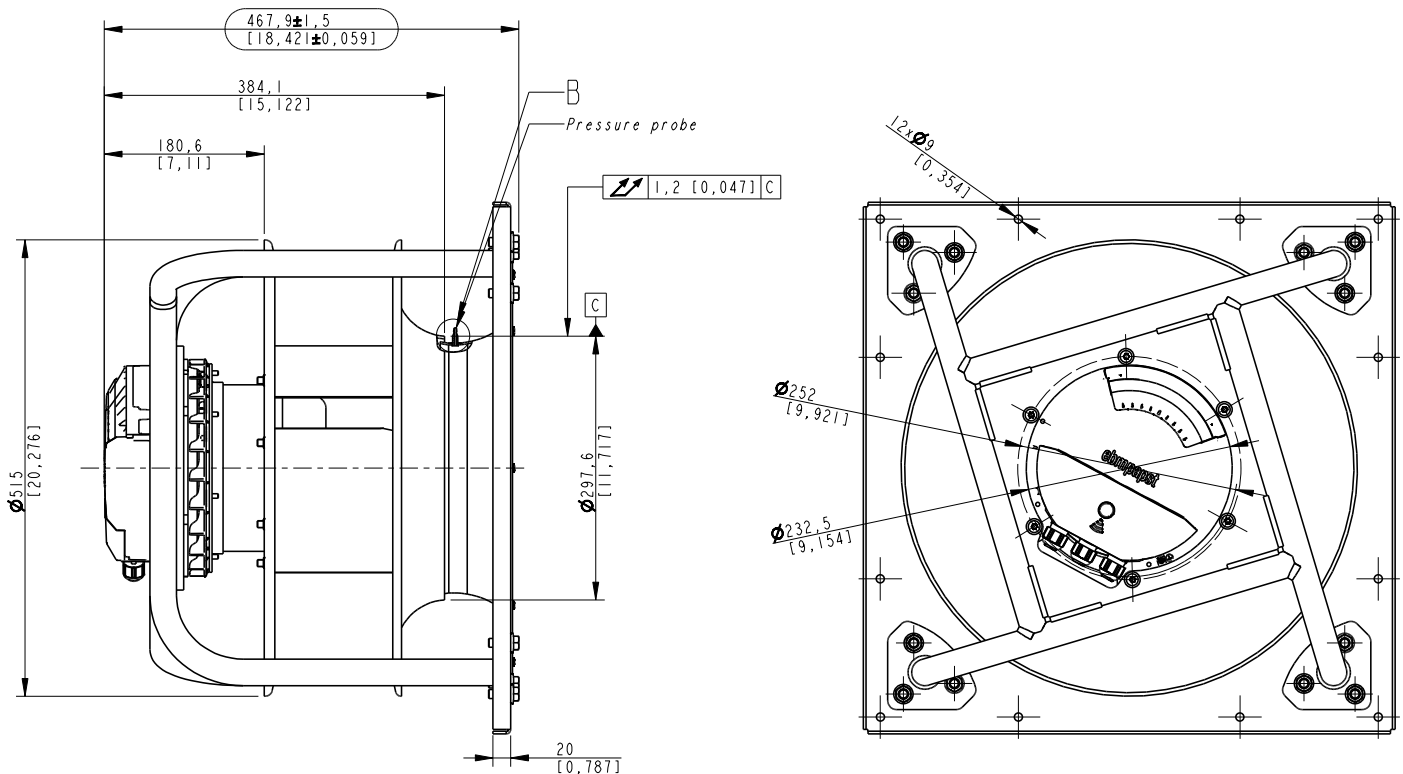
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	26 500 h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	450 mm / Aerofoil / 7
Spinning direction	Clockwise, wiewed from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation
(EU) 327/2011Requirements for fans driven by motors with an electric
input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	69.0%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	3.49 kW
9	Air flow q_v	3 795 CFM
	Pressure increase p_{fs}	5.13 inWG
10	Speed (rpm) n	2 300
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



Swiss Rotors Sp. z o.o. certifies that the

SR-A450-FSEC-RTB3.7-EBM-A EC Fan EC Fan

shown herein are 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.

- Power rating does not include transmission losses.
- Performance ratings do not include the effects of appurtenances.
- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
- L_{pAin} dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

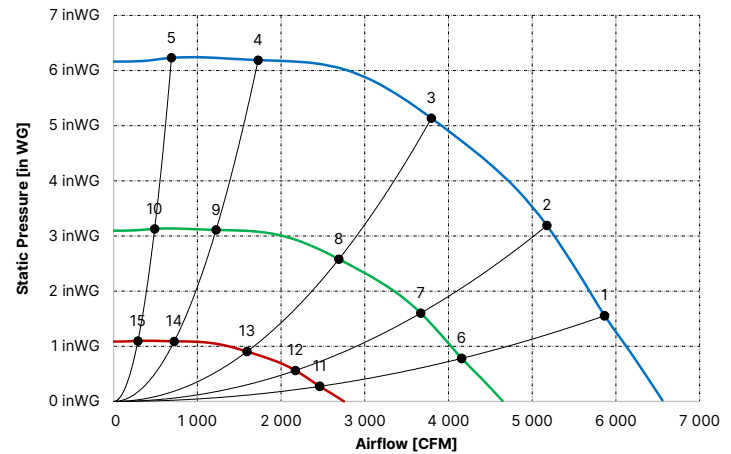
Fan Efficiency Grade (FEG), AMCA 205-10

80

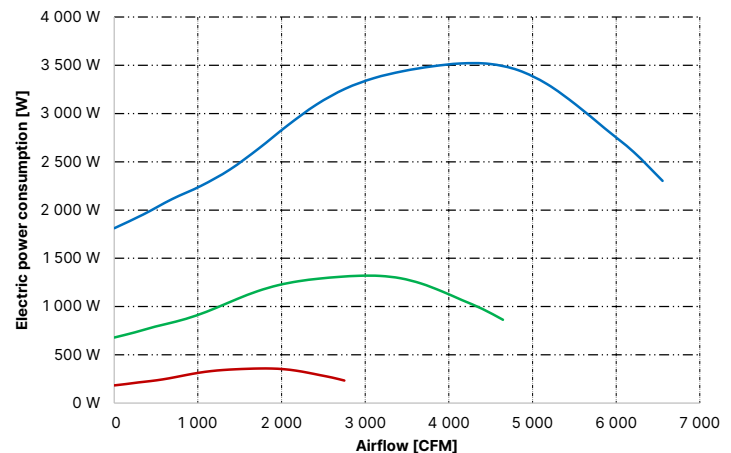
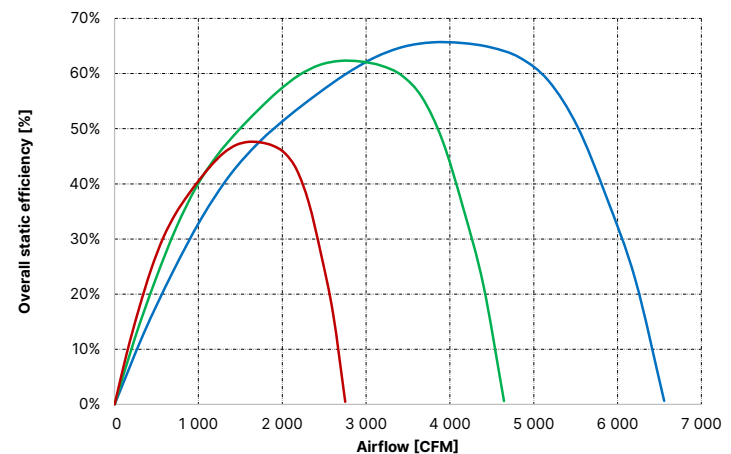
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	2 300	5 866	1.55	4.1	2.85	78.5	86.5	92.7	0.91
2	2 300	5 175	3.19	4.7	3.30	77.4	85.4	91.3	1.30
3	2 300	3 795	5.13	4.9	3.49	75.4	83.4	89.4	1.42
4	2 300	1 725	6.19	3.8	2.64	81.9	89.9	95.2	1.07
5	2 300	690	6.23	3.1	2.11	83.0	91.0	96.5	0.63
6	1 630	4 157	0.78	1.7	1.07	71.1	79.1	85.2	1.04
7	1 630	3 668	1.60	1.9	1.24	69.9	77.9	83.8	1.35
8	1 630	2 690	2.58	2.0	1.31	67.9	75.9	81.9	1.43
9	1 630	1 223	3.11	1.6	0.99	74.4	82.4	87.7	1.11
10	1 630	489	3.13	1.4	0.79	75.5	83.5	89.0	0.70
11	965	2 461	0.27	0.7	0.29	59.7	67.7	73.9	1.33
12	965	2 171	0.56	0.8	0.34	58.5	66.5	72.4	1.46
13	965	1 592	0.90	0.8	0.36	56.5	64.5	70.5	1.43
14	965	724	1.09	0.7	0.27	63.1	71.1	76.3	1.14
15	965	290	1.10	0.6	0.22	64.1	72.1	77.6	0.80

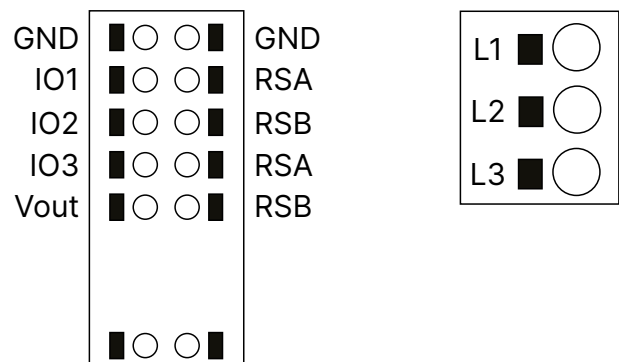
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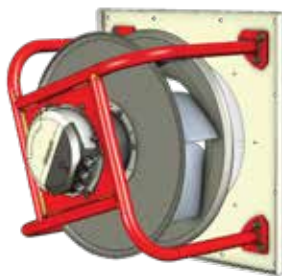
EPC = f(V)

 $\eta_{es} = f(V)$ 

Power supply and control connections



Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Model	SR-A500-FSEC-RTB/3.7-EBM-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	3.70 kW / 5.0 A
Revolutions: Min / Nominal	300 ÷ 1900 RPM
CAV K-factor	253
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	117 Lbs

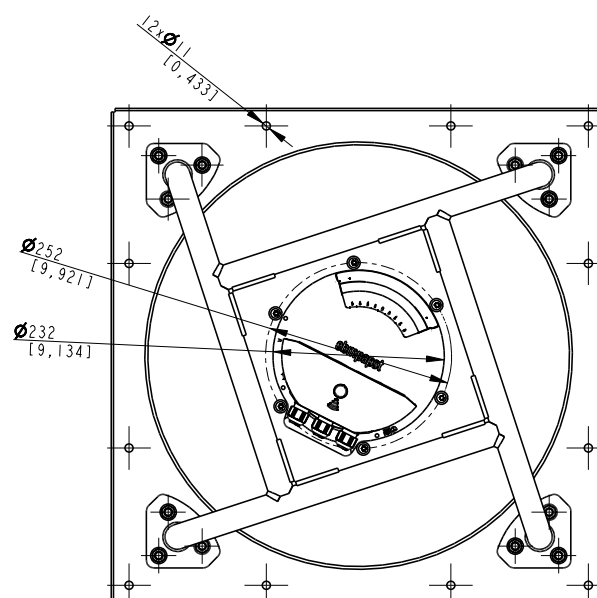
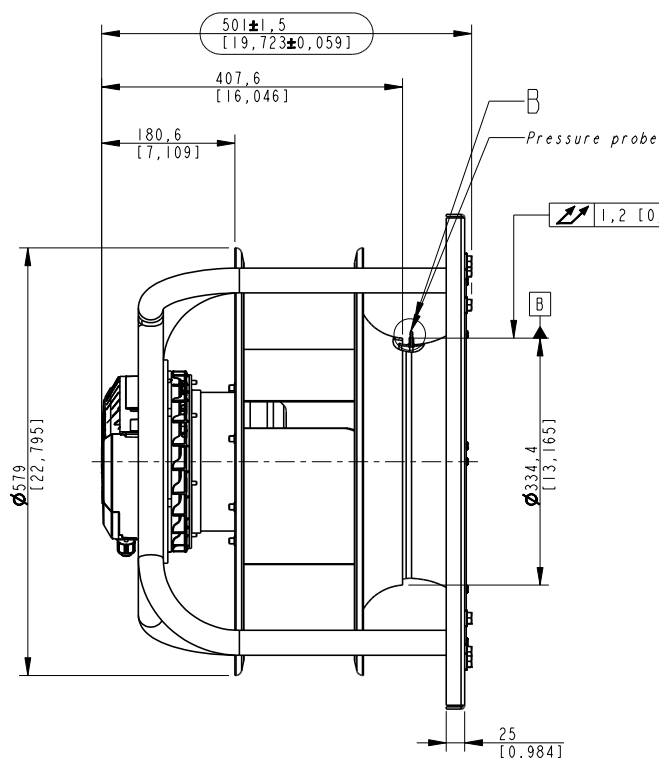
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	26 500 h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	500 mm / Aerofoil / 7
Spinning direction	Clockwise, wiewed from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation (EU) 327/2011 Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	69.0%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	3.56 kW
9	Air flow q_v	4 714 CFM
	Pressure increase p_{fs}	4.22 inWG
10	Speed (rpm) n	1 900
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



Swiss Rotors Sp. z o.o. certifies that the

SR-A500-FSEC-RTB3.7-EBM-A EC Fan

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- Power rating does not include transmission losses.
- Performance ratings do not include the effects of appurtenances.
- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
- L_{pAin} dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

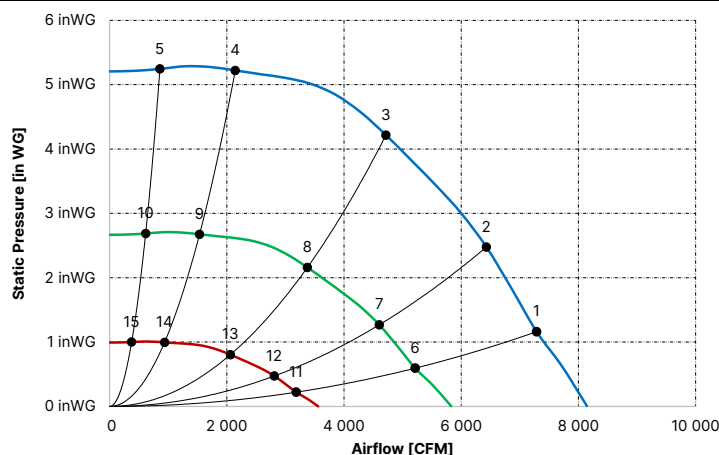
Fan Efficiency Grade (FEG), AMCA 205-10

80

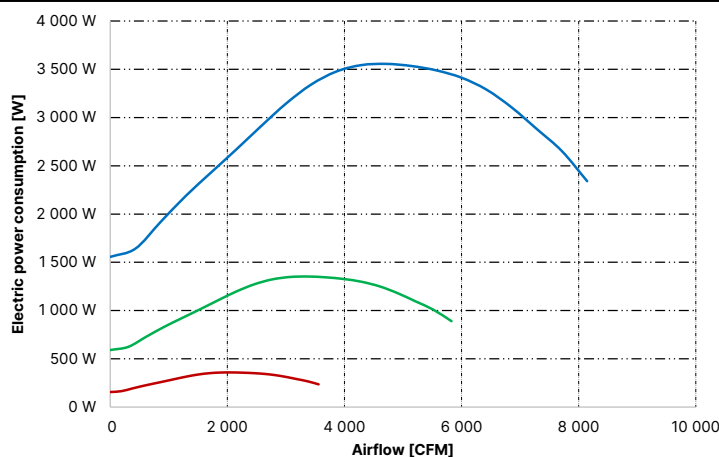
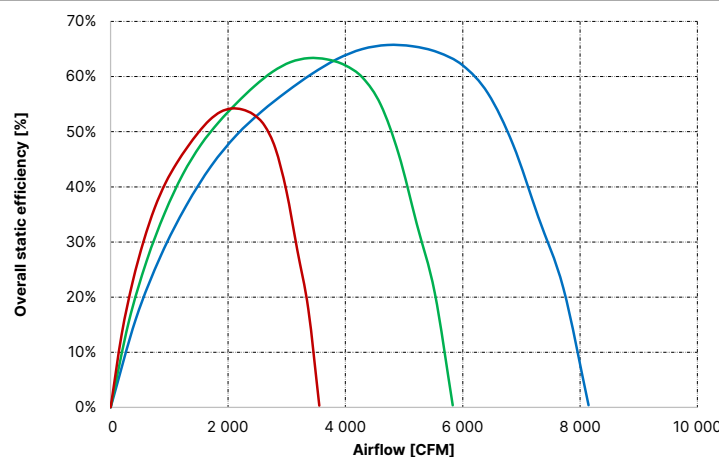
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	1900	7 286	1.16	4.3	2.88	79.0	87.0	92.9	0.88
2	1900	6 429	2.48	4.9	3.29	77.4	85.4	91.6	1.29
3	1900	4 714	4.22	5.3	3.56	74.4	82.4	88.1	1.43
4	1900	2 143	5.22	4.0	2.66	80.6	88.6	93.8	1.09
5	1900	857	5.24	3.0	1.92	82.1	90.1	95.5	0.69
6	1360	5 215	0.60	1.9	1.10	71.8	79.8	85.6	1.06
7	1360	4 602	1.27	2.1	1.25	70.2	78.2	84.3	1.39
8	1360	3 374	2.16	2.2	1.35	67.1	75.1	80.9	1.47
9	1360	1 534	2.68	1.8	1.01	73.3	81.3	86.5	1.15
10	1360	614	2.69	1.4	0.73	74.8	82.8	88.3	0.77
11	830	3 183	0.22	0.8	0.29	61.0	69.0	74.9	1.55
12	830	2 808	0.47	0.8	0.33	59.4	67.4	73.6	1.70
13	830	2 059	0.80	0.8	0.36	56.4	64.4	70.2	1.64
14	830	936	1.00	0.7	0.27	62.6	70.6	75.8	1.30
15	830	374	1.00	0.6	0.19	64.1	72.1	77.6	0.96

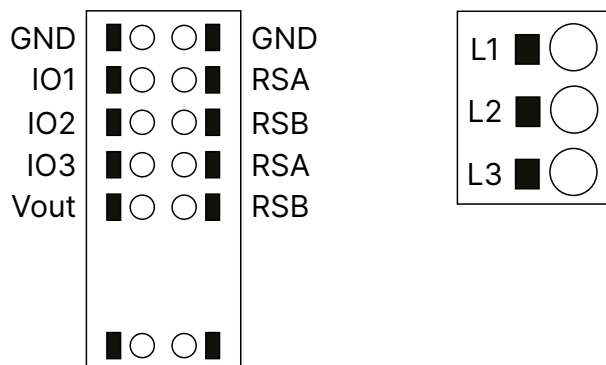
dP = f(V)



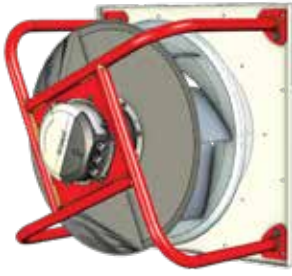
EPC = f(V)

 $\eta_{es} = f(V)$ 

Power supply and control connections



Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Model	SR-A560-FSEC-RTB/3.7-EBM-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	3.80 kW / 5.0 A
Revolutions: Min / Nominal	300 ÷ 1600 RPM
CAV K-factor	323
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	130 Lbs

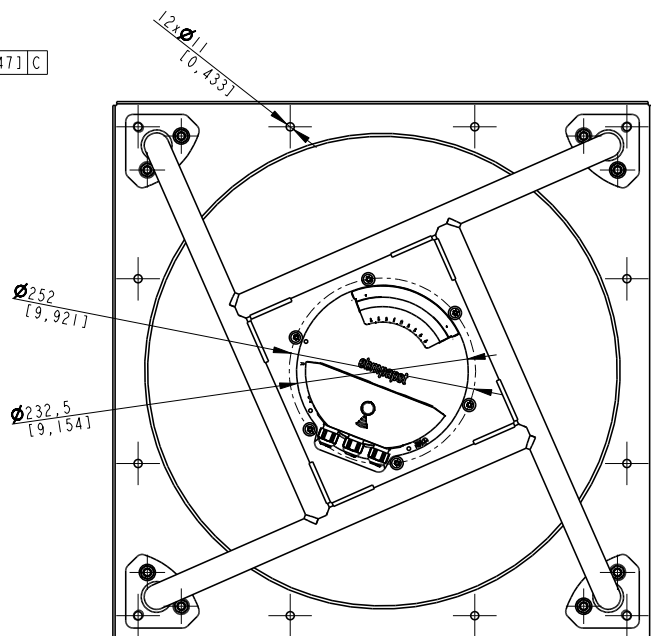
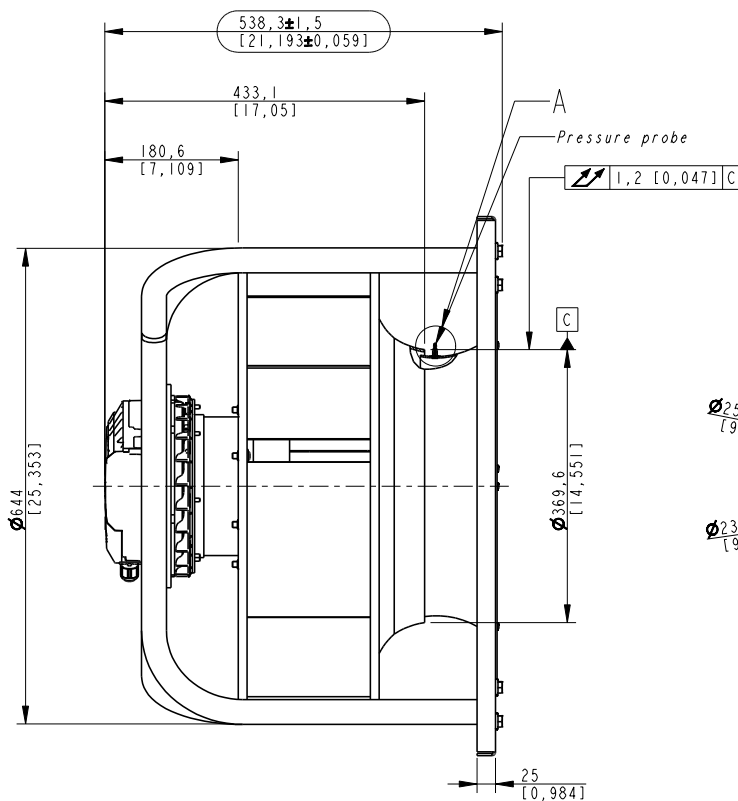
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	26 500 h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	560 mm / Aerofoil / 7
Spinning direction	Clockwise, wiewed from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation (EU) 327/2011 Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	70.0%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	3.68 kW
9	Air flow q_v	5 773 CFM
	Pressure increase p_{fs}	3.62 inWG
10	Speed (rpm) n	1 600
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



Swiss Rotors Sp. z o.o. certifies that the

SR-A560-FSEC-RTB3.7-EBM-A EC Fan

shown herein are 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.

- Power rating does not include transmission losses.
- Performance ratings do not include the effects of appurtenances.
- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
- L_{pAin} dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

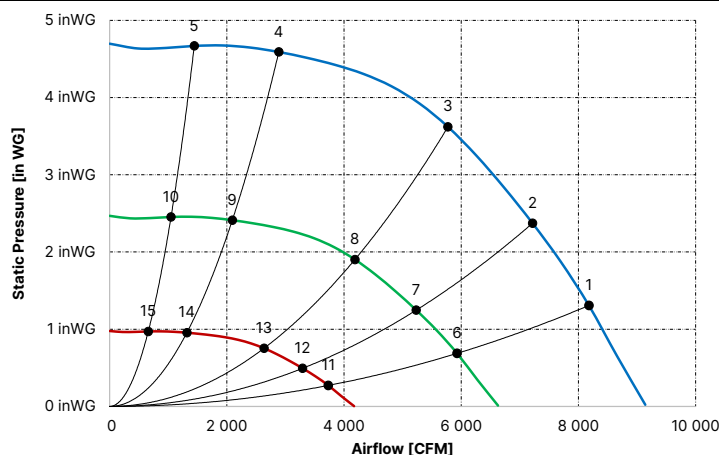
Fan Efficiency Grade (FEG), AMCA 205-10

80

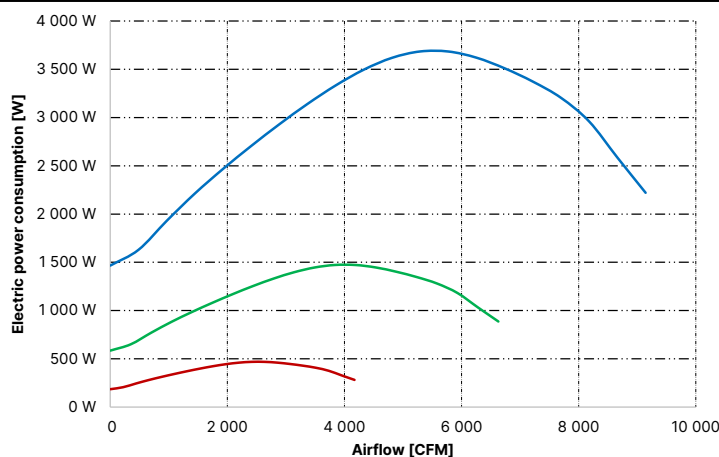
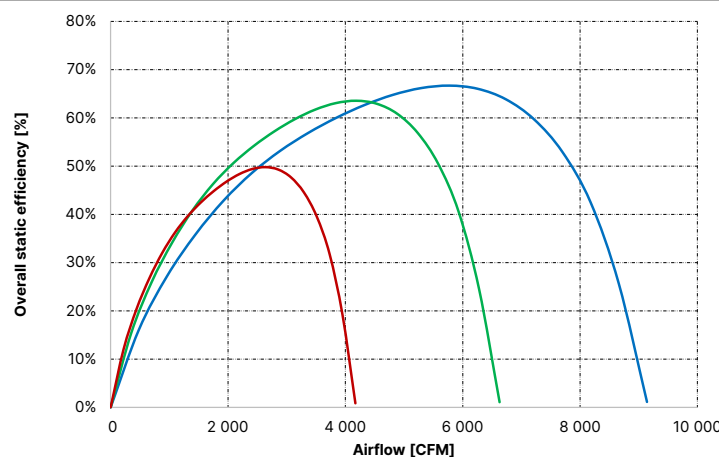
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	1 600	8 179	1.31	4.4	2.96	77.5	85.5	91.8	1.06
2	1 600	7 217	2.37	4.9	3.37	76.9	84.9	91.0	1.36
3	1 600	5 773	3.62	5.4	3.68	74.3	82.3	88.0	1.47
4	1 600	2 887	4.59	4.3	2.93	79.7	87.7	92.8	1.17
5	1 600	1 443	4.67	3.4	2.21	81.8	89.8	95.2	0.83
6	1 160	5 930	0.69	2.0	1.18	70.5	78.5	84.8	1.21
7	1 160	5 232	1.25	2.2	1.35	69.9	77.9	84.0	1.44
8	1 160	4 186	1.90	2.4	1.47	67.3	75.3	81.0	1.49
9	1 160	2 093	2.41	2.0	1.17	72.8	80.8	85.8	1.20
10	1 160	1 046	2.45	1.6	0.88	74.8	82.8	88.2	0.89
11	730	3 732	0.27	0.9	0.38	60.5	68.5	74.7	1.51
12	730	3 293	0.49	0.9	0.43	59.9	67.9	73.9	1.56
13	730	2 634	0.75	1.0	0.47	57.2	65.2	71.0	1.50
14	730	1 317	0.96	0.9	0.37	62.7	70.7	75.8	1.21
15	730	659	0.97	0.7	0.28	64.8	72.8	78.2	0.94

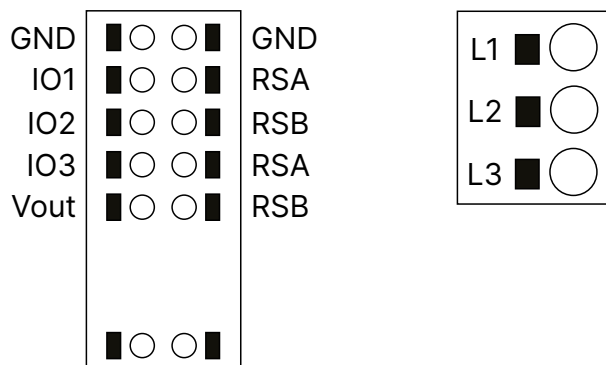
dP = f(V)



EPC = f(V)

 $\eta_{es} = f(V)$ 

Power supply and control connections



Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Model	AF-A630-FSEC-RTB/5.3-EBM-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	5.40 kW / 7.6 A
Revolutions: Min / Nominal	500 ÷ 1420 RPM
CAV K-factor	500
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	152 Lbs

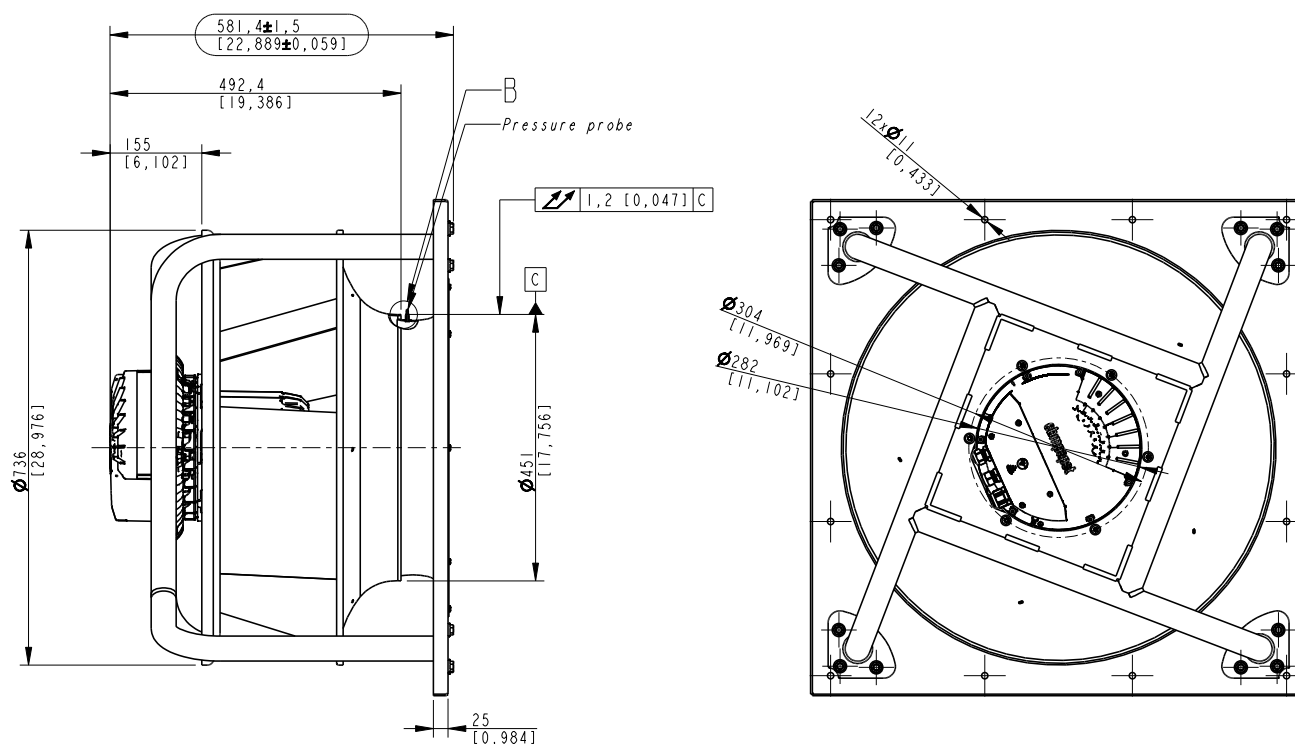
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	630 mm / Aerofoil / 5
Spinning direction	Clockwise, wiewed from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation
(EU) 327/2011Requirements for fans driven by motors with an electric
input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	69.9%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	5.09 kW
9	Air flow q_v	7 555 CFM
	Pressure increase pfs	3.85 inWG
10	Speed (rpm) n	1 420
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



Swiss Rotors Sp. z o.o. certifies that the

AF-A630-FSEC-RTB5.3-EBM-A EC Fan

shown herein are 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.

- Power rating does not include transmission losses.
- Performance ratings do not include the effects of appurtenances.
- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
- L_{pAin} dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

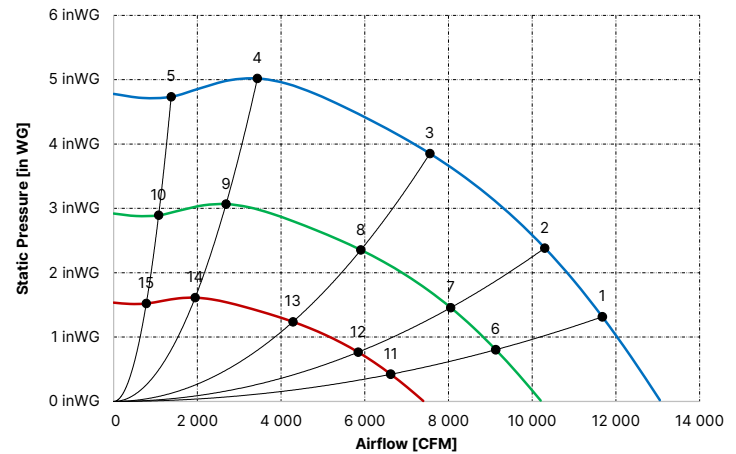
Fan Efficiency Grade (FEG), AMCA 205-10

80

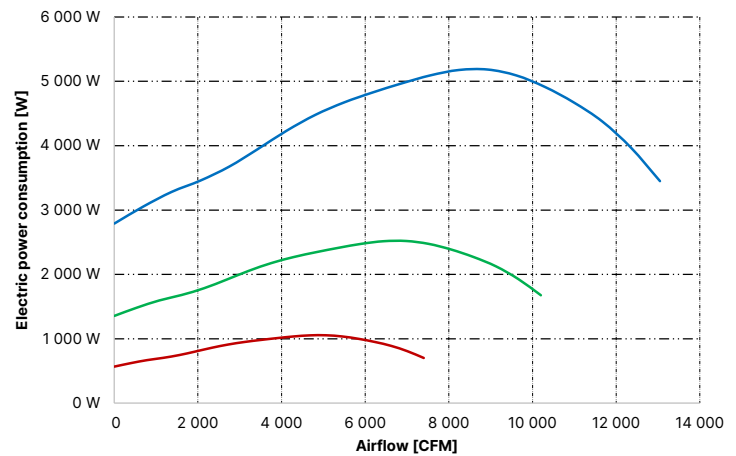
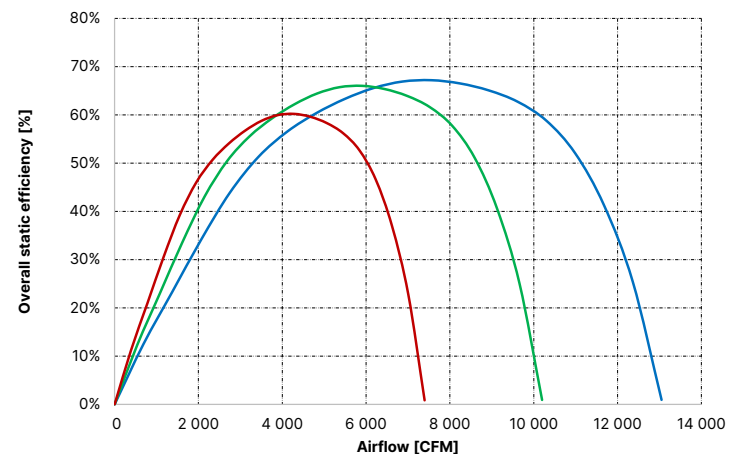
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	1 420	11 675	1.31	7.0	4.37	80.9	88.9	94.3	1.03
2	1 420	10 302	2.38	7.8	4.91	78.5	86.5	92.7	1.35
3	1 420	7 555	3.85	8.0	5.09	75.4	83.4	89.1	1.48
4	1 420	3 434	5.02	6.4	3.95	81.0	89.0	94.1	1.12
5	1 420	1 374	4.73	5.4	3.28	82.9	90.9	96.3	0.54
6	1 110	9 126	0.80	3.7	2.12	75.6	83.6	89.0	1.15
7	1 110	8 053	1.46	4.1	2.39	73.1	81.1	87.4	1.41
8	1 110	5 905	2.35	4.2	2.47	70.1	78.1	83.8	1.50
9	1 110	2 684	3.07	3.4	1.92	75.7	83.7	88.8	1.14
10	1 110	1 074	2.89	2.9	1.59	77.5	85.5	90.9	0.58
11	805	6 619	0.42	1.9	0.89	68.6	76.6	82.0	1.35
12	805	5 840	0.77	2.1	1.00	66.2	74.2	80.4	1.52
13	805	4 283	1.24	2.1	1.03	63.1	71.1	76.8	1.53
14	805	1 947	1.61	1.8	0.80	68.7	76.7	81.8	1.17
15	805	779	1.52	1.6	0.67	70.6	78.6	84.0	0.63

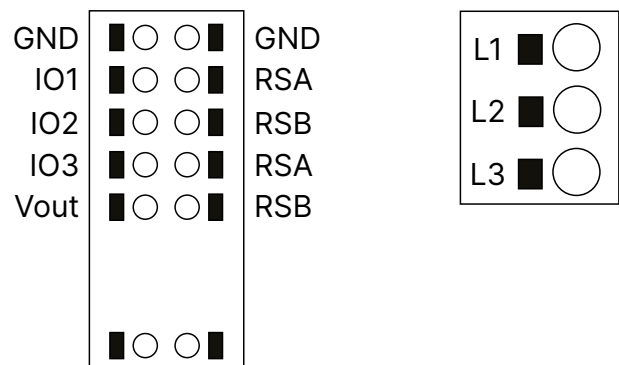
dP = f(V)



EPC = f(V)

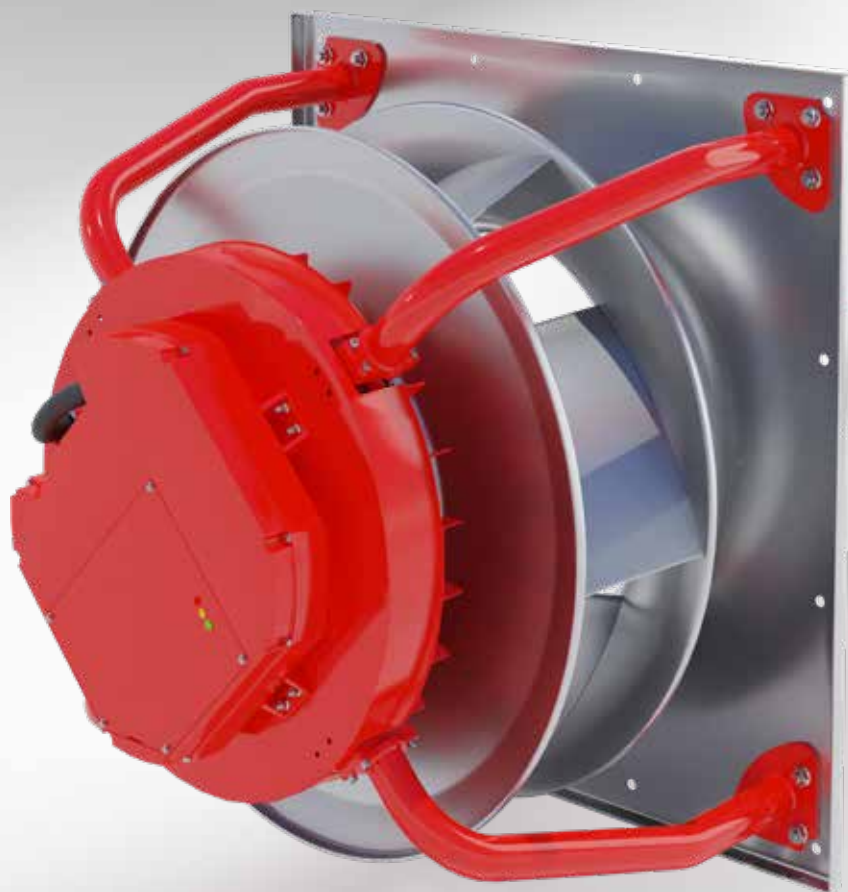
 $\eta_{es} = f(V)$ 

Power supply and control connections



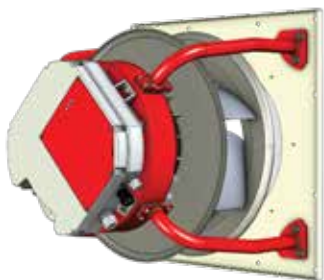
400-630 mm EC Fan Sets

EMB motors



SR-A500-FSEC-RTC/5.6-INF
SR-A500-FSEC-RTC/7.5-INF
SR-A560-FSEC-RTC/5.6-INF
SR-A560-FSEC-RTC/7.5-INF
AF-A630-FSEC-RTC/7.5-INF
AF-A630-FSEC-RTC/11.2-INF

Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Model	SR-A500-FSEC-RTC/5.6-INF-A
Rated Voltage	3×380-480 VAC / 60 Hz
Nominal Input Power / Rated Current	5.90 kW / 8.7 A
Revolutions: Min / Nominal	300 ÷ 2250 RPM
CAV K-factor	250
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	157 Lbs

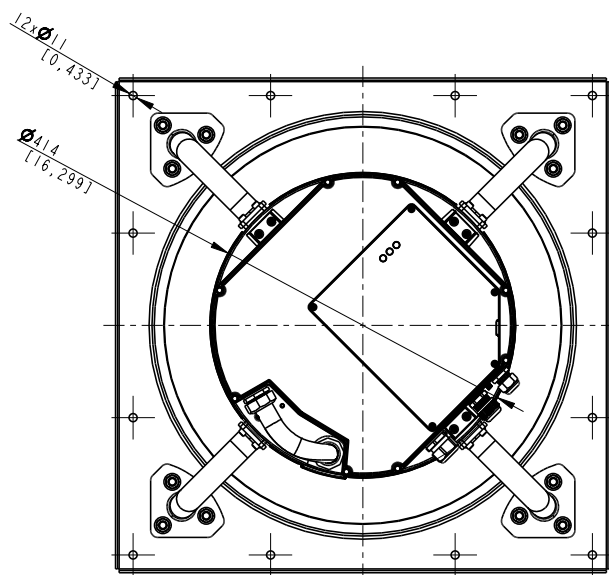
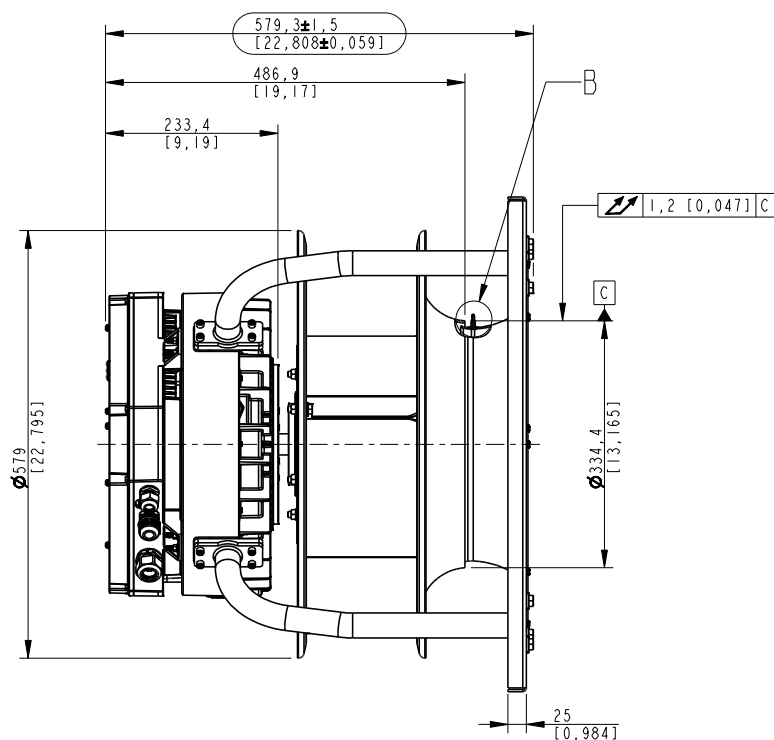
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	50 000 h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	500 mm / Aerofoil / 7
Spinning direction	Clockwise, wiewed from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation (EU) 327/2011 Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	71.5%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	5.75 kW
9	Air flow q_v	5 467 CFM
	Pressure increase pfs	6.18 inWG
10	Speed (rpm) n	2 250
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



Swiss Rotors Sp. z o.o. certifies that the

SR-A500-FSEC-RTC/5.6-INF-A EC Fan

shown herein are 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.

- Power rating does not include transmission losses.
- Performance ratings do not include the effects of appurtenances.
- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
- L_{pAin} dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

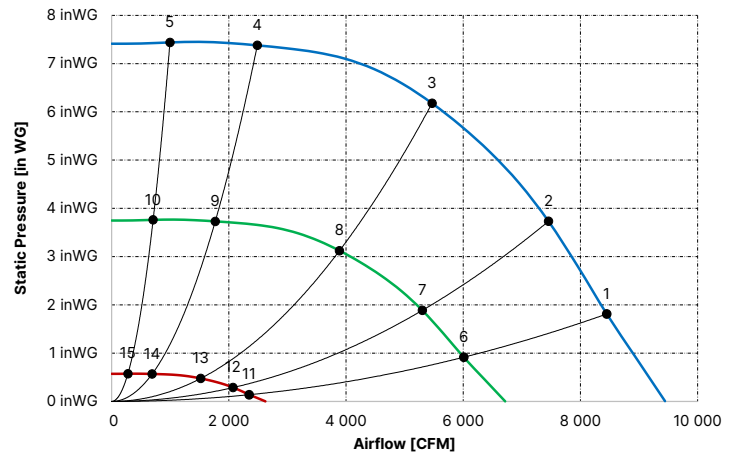
Fan Efficiency Grade (FEG), AMCA 205-10

85

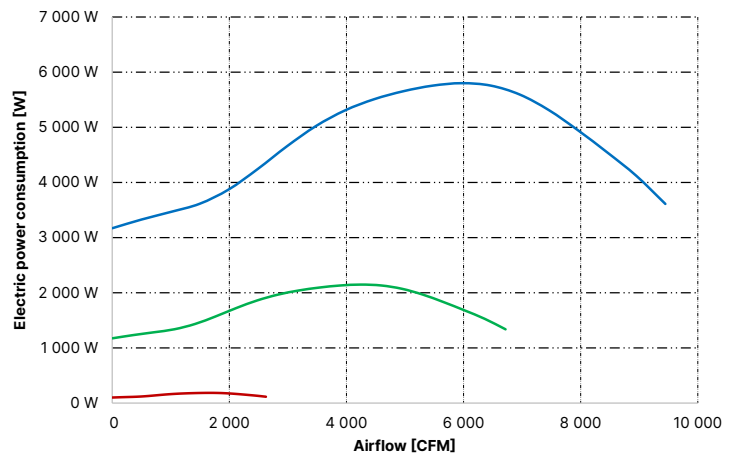
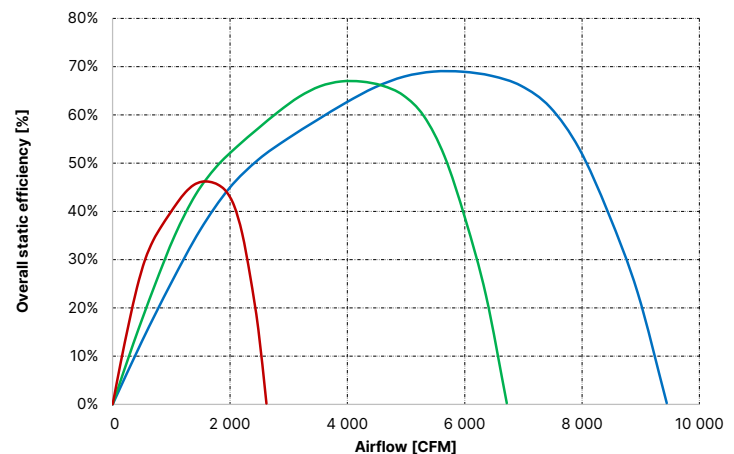
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	2 250	8 450	1.81	7.5	4.55	82.2	90.2	96.2	0.93
2	2 250	7 456	3.73	8.7	5.31	81.0	89.0	95.1	1.36
3	2 250	5 467	6.18	9.3	5.75	78.0	86.0	91.9	1.50
4	2 250	2 485	7.38	7.0	4.25	84.4	92.4	97.5	1.11
5	2 250	994	7.44	5.8	3.47	85.8	93.8	99.2	0.60
6	1 600	6 009	0.92	3.1	1.69	74.8	82.8	88.8	1.05
7	1 600	5 302	1.89	3.5	1.97	73.6	81.6	87.7	1.40
8	1 600	3 888	3.12	3.8	2.13	70.6	78.6	84.5	1.49
9	1 600	1 767	3.73	2.9	1.57	77.0	85.0	90.1	1.13
10	1 600	707	3.76	2.5	1.28	78.4	86.4	91.8	0.66
11	625	2 347	0.14	0.7	0.15	54.3	62.3	68.4	2.04
12	625	2 071	0.29	0.8	0.17	53.2	61.2	67.3	1.99
13	625	1 519	0.48	0.8	0.18	50.2	58.2	64.0	1.78
14	625	690	0.57	0.7	0.14	56.5	64.5	69.7	1.42
15	625	276	0.57	0.7	0.11	57.9	65.9	71.4	0.99

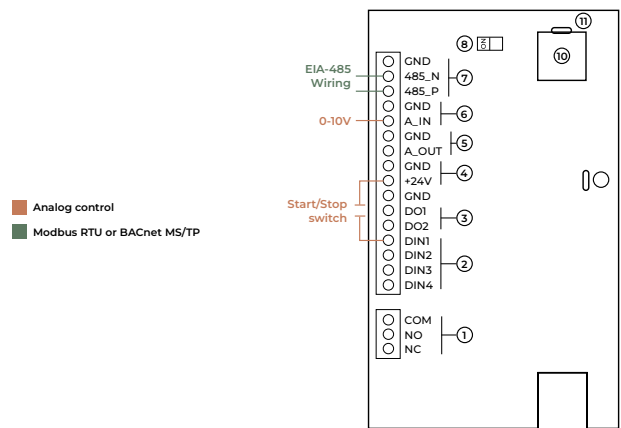
dP = f(V)



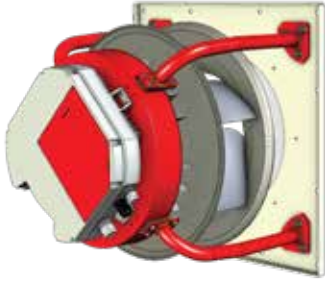
EPC = f(V)

 $\eta_{es} = f(V)$ 

Power supply and control connections



Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Model	SR-A500-FSEC-RTC/7.5-INF-A
Rated Voltage	3×380-480 VAC / 60 Hz
Nominal Input Power / Rated Current	7.50 kW / 10.9 A
Revolutions: Min / Nominal	300 ÷ 2400 RPM
CAV K-factor	250
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	172 Lbs

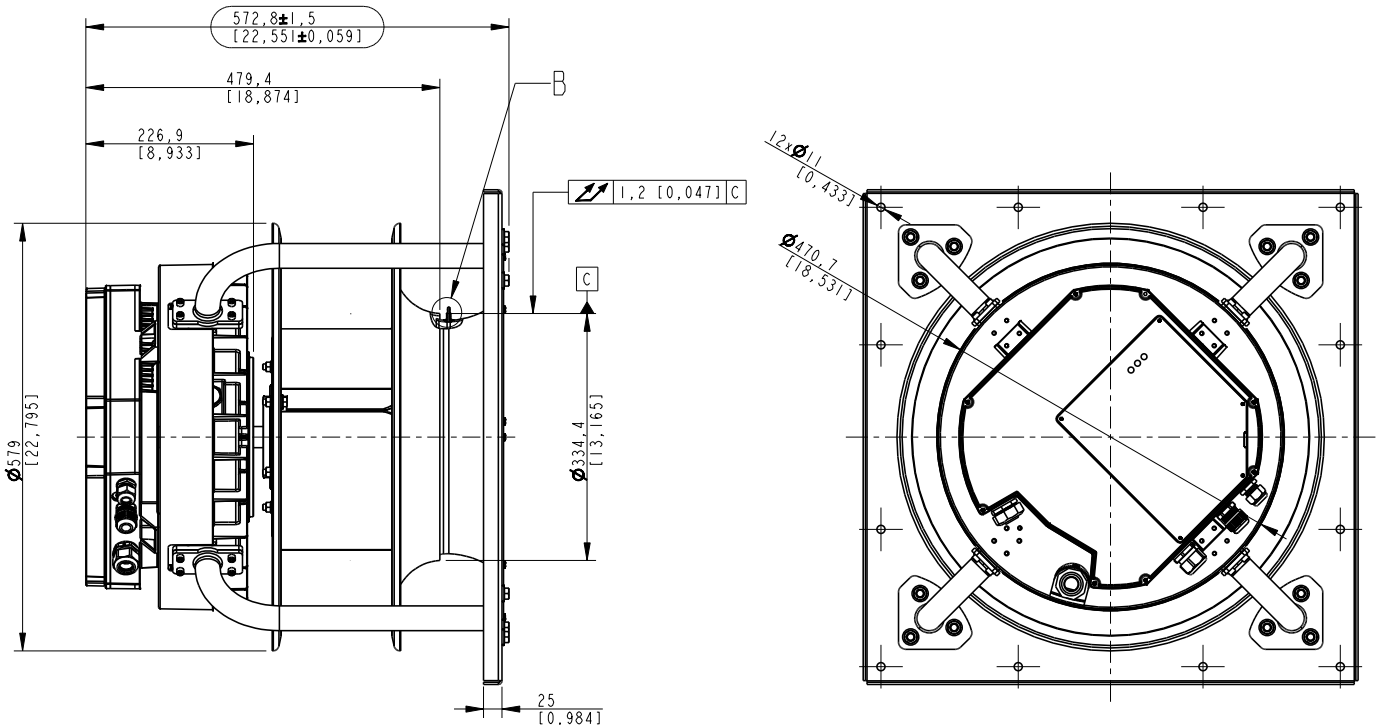
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	50 000 h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	500 mm / Aerofoil / 7
Spinning direction	Clockwise, wiewed from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation (EU) 327/2011 Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	70.7%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	7.16 kW
9	Air flow q_v	6 448 CFM
	Pressure increase pfs	6.48 inWG
10	Speed (rpm) n	2 400
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



Swiss Rotors Sp. z o.o. certifies that the

SR-A500-FSEC-RTC/7.5-INF-A EC Fan

shown herein are 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.

- Power rating does not include transmission losses.
- Performance ratings do not include the effects of appurtenances.
- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
- L_{pAin} dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

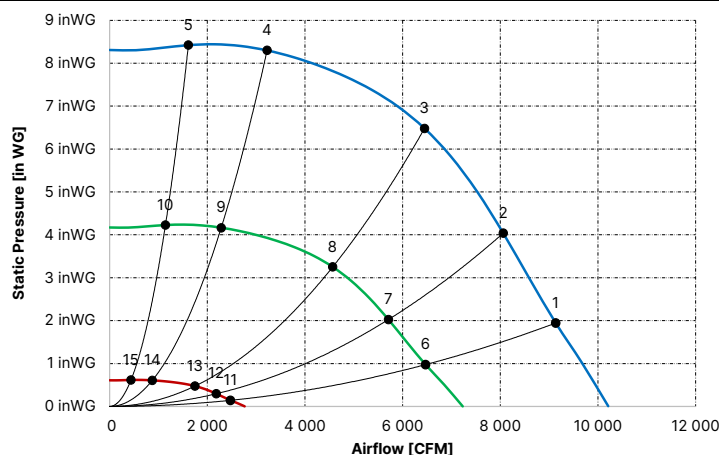
Fan Efficiency Grade (FEG), AMCA 205-10

85

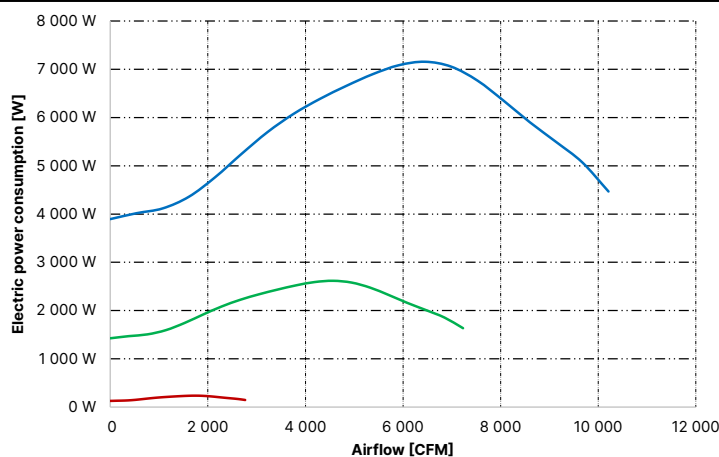
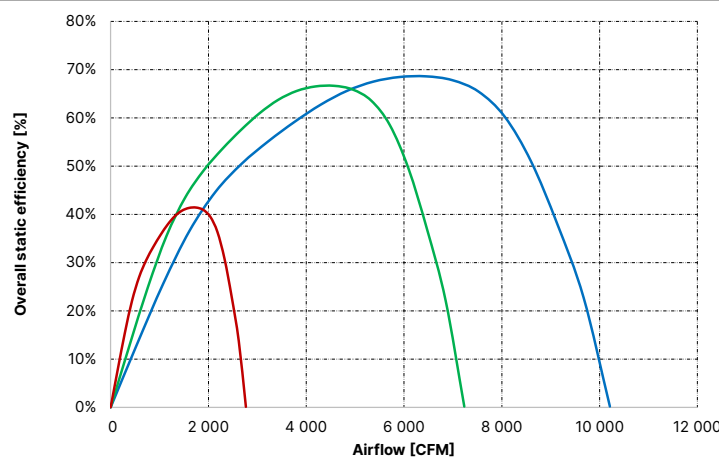
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	2 400	9 134	1.94	9.2	5.50	83.9	91.9	97.8	0.89
2	2 400	8 060	4.04	10.5	6.35	82.5	90.5	96.6	1.33
3	2 400	6 448	6.48	11.7	7.16	79.9	87.9	93.6	1.50
4	2 400	3 224	8.30	9.5	5.70	84.9	92.9	97.9	1.20
5	2 400	1 612	8.42	7.5	4.36	87.2	95.2	100.6	0.82
6	1 700	6 470	0.98	3.9	2.01	76.4	84.4	90.3	0.99
7	1 700	5 709	2.03	4.4	2.32	75.0	83.0	89.1	1.35
8	1 700	4 567	3.25	4.8	2.62	72.4	80.4	86.1	1.47
9	1 700	2 284	4.16	4.0	2.09	77.4	85.4	90.4	1.20
10	1 700	1 142	4.23	3.3	1.60	79.7	87.7	93.1	0.86
11	650	2 474	0.14	1.1	0.18	55.5	63.5	69.4	1.73
12	650	2 183	0.30	1.2	0.21	54.1	62.1	68.2	1.72
13	650	1 746	0.48	1.2	0.24	51.5	59.5	65.2	1.57
14	650	873	0.61	1.1	0.19	56.5	64.5	69.5	1.28
15	650	437	0.62	1.1	0.14	58.8	66.8	72.2	1.04

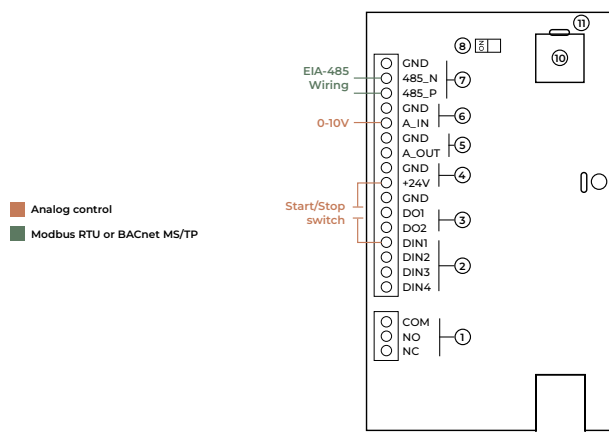
dP = f(V)



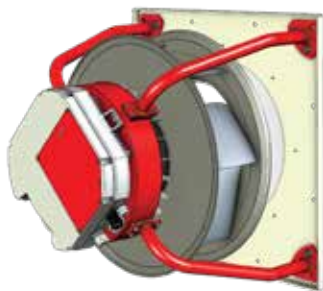
EPC = f(V)

 $\eta_{es} = f(V)$ 

Power supply and control connections



Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Model	SR-A560-FSEC-RTC/5.6-INF-A
Rated Voltage	3×380-480 VAC / 60 Hz
Nominal Input Power / Rated Current	5.80 kW / 7.8 A
Revolutions: Min / Nominal	300 ÷ 1830 RPM
CAV K-factor	326
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	168 Lbs

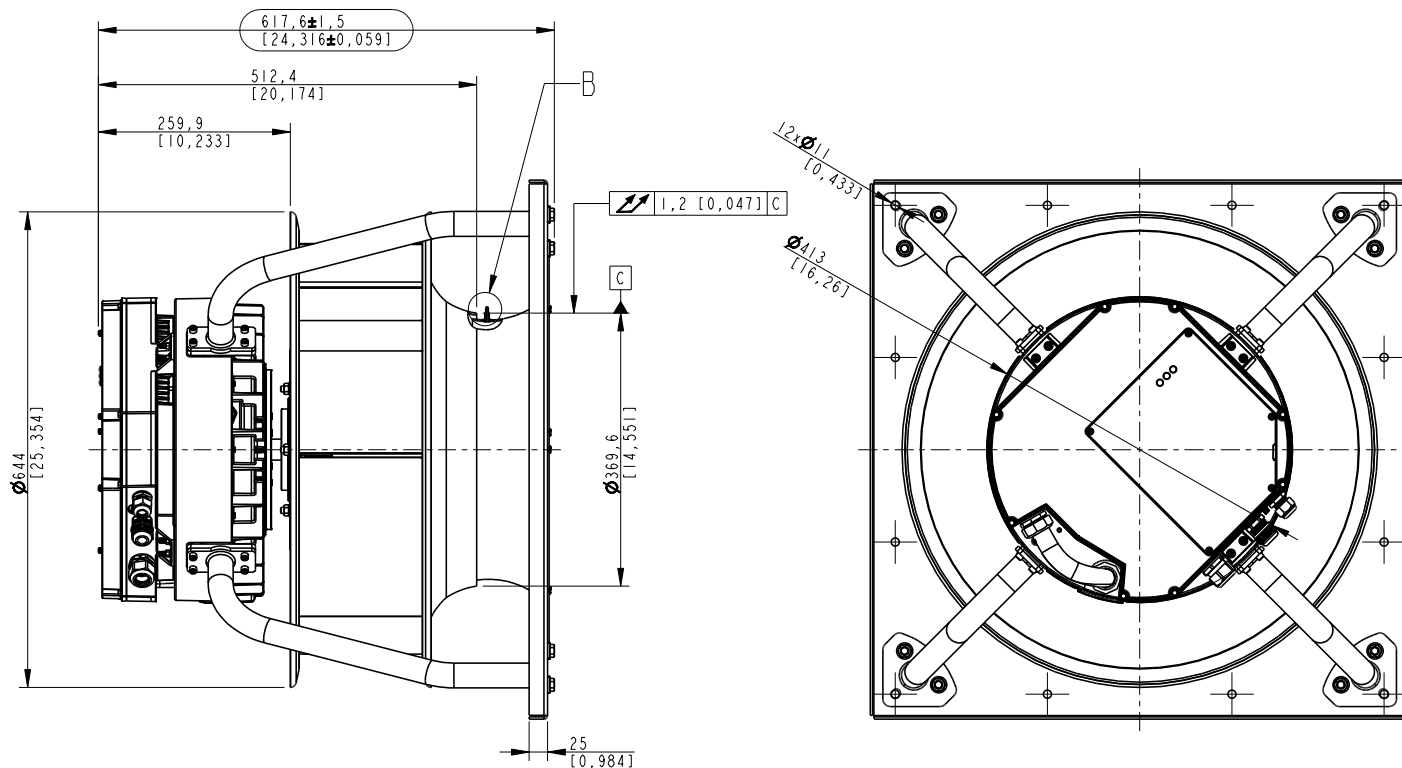
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	50 000 h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	560 mm / Aerofoil / 7
Spinning direction	Clockwise, wiewed from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation (EU) 327/2011 Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	70.6%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	5.47 kW
9	Air flow q_v	6 612 CFM
	Pressure increase p_{fs}	4.79 inWG
10	Speed (rpm) n	1 830
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



Swiss Rotors Sp. z o.o. certifies that the

SR-A560-FSEC-RTC/5.6-INF-A EC Fan

shown herein are 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.

- Power rating does not include transmission losses.
- Performance ratings do not include the effects of appurtenances.
- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
- L_{pAin} dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

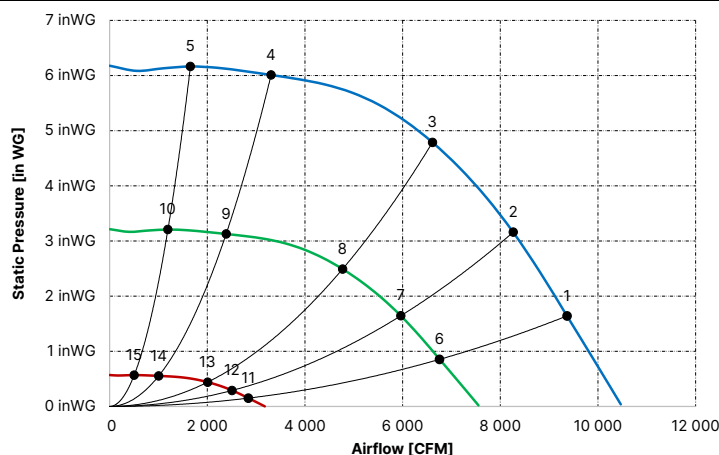
Fan Efficiency Grade (FEG), AMCA 205-10

85

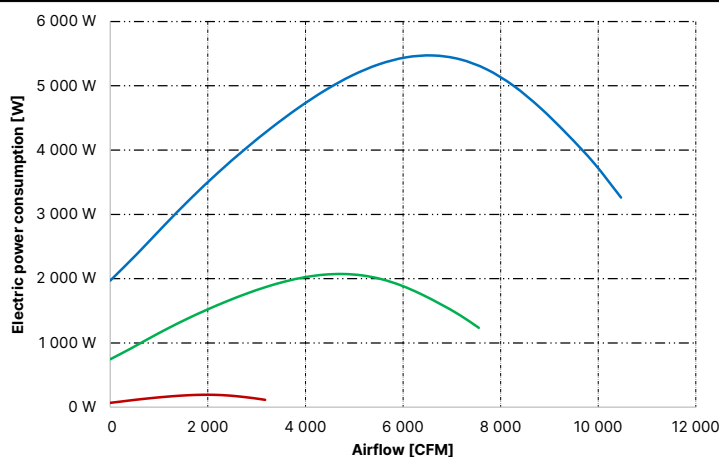
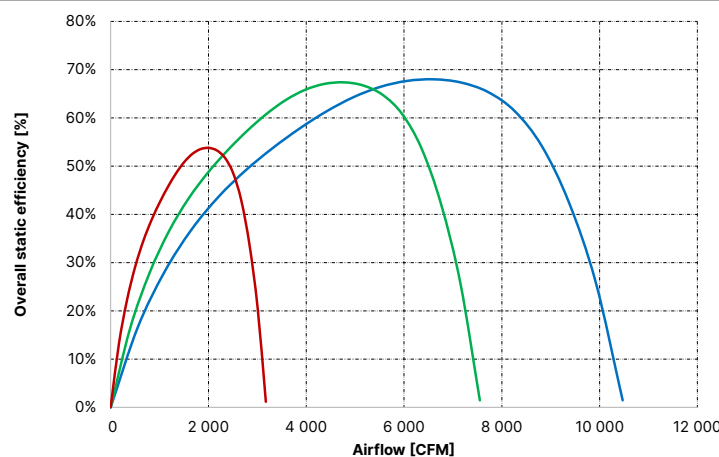
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	1830	9 367	1.64	6.5	4.24	80.4	88.4	94.7	1.02
2	1830	8 265	3.16	7.6	5.00	79.8	87.8	93.9	1.37
3	1830	6 612	4.79	8.3	5.47	77.2	85.2	90.9	1.49
4	1830	3 306	6.01	6.7	4.35	82.6	90.6	95.7	1.16
5	1830	1 653	6.16	5.1	3.25	84.7	92.7	98.1	0.83
6	1320	6 757	0.85	2.8	1.61	73.3	81.3	87.6	1.17
7	1320	5 962	1.64	3.2	1.89	72.7	80.7	86.8	1.45
8	1320	4 769	2.49	3.4	2.07	70.1	78.1	83.8	1.52
9	1320	2 385	3.13	2.8	1.65	75.6	83.6	88.6	1.21
10	1320	1 192	3.21	2.2	1.23	77.6	85.6	91.1	0.90
11	555	2 841	0.15	0.7	0.15	54.5	62.5	68.8	2.41
12	555	2 507	0.29	0.7	0.18	53.9	61.9	68.0	2.29
13	555	2 005	0.44	0.7	0.19	51.3	59.3	65.0	2.08
14	555	1 003	0.55	0.7	0.15	56.7	64.7	69.8	1.65
15	555	501	0.57	0.6	0.11	58.8	66.8	72.2	1.35

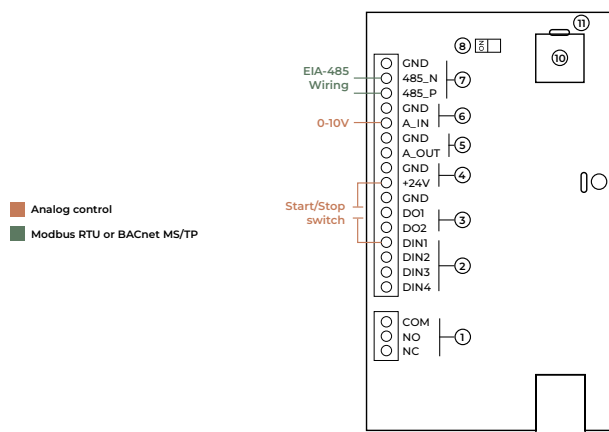
dP = f(V)



EPC = f(V)

 $\eta_{es} = f(V)$ 

Power supply and control connections



Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Model	SR-A560-FSEC-RTC/7.5-INF-A
Rated Voltage	3×380-480 VAC / 60 Hz
Nominal Input Power / Rated Current	7.90 kW / 11.7 A
Revolutions: Min / Nominal	300 ÷ 2050 RPM
CAV K-factor	326
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	183 Lbs

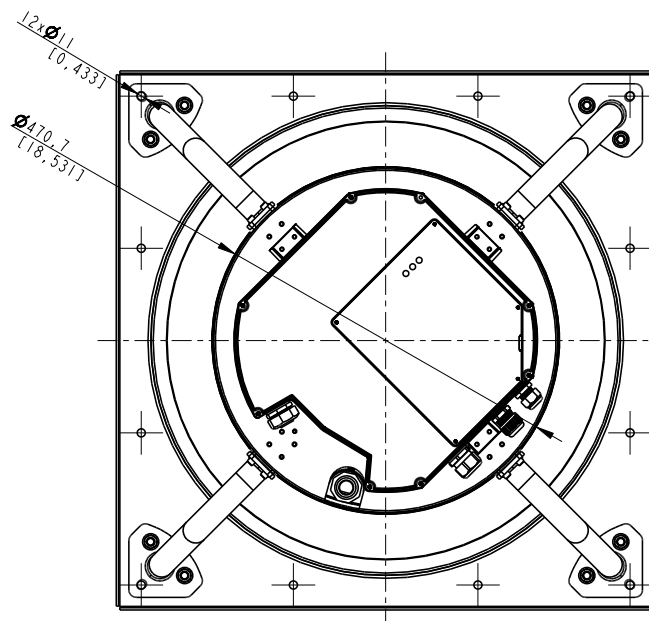
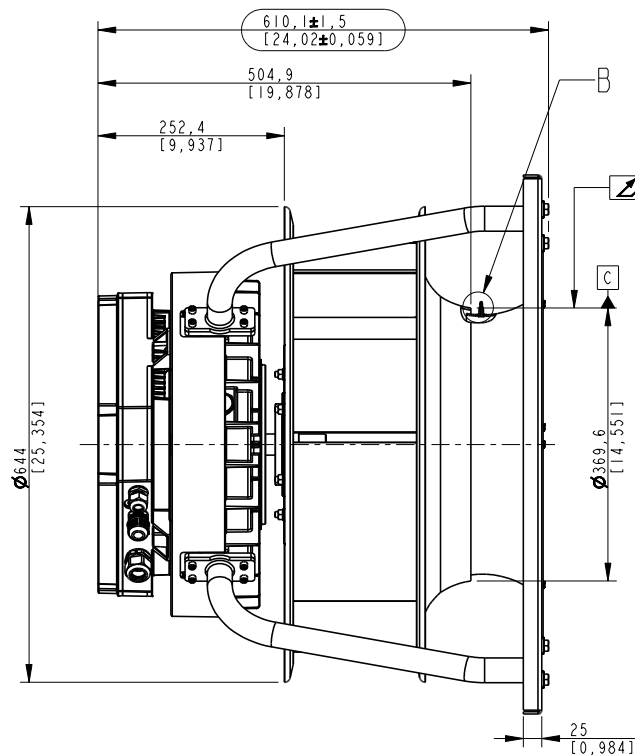
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	50 000 h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	560 mm / Aerofoil / 7
Spinning direction	Clockwise, wiewed from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation (EU) 327/2011 Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	70.6%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	7.66 kW
9	Air flow q_v	7 413 CFM
	Pressure increase p_{fs}	6.04 inWG
10	Speed (rpm) n	2 050
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



Swiss Rotors Sp. z o.o. certifies that the

SR-A560-FSEC-RTC/7.5-INF-A EC Fan

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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.

- Power rating does not include transmission losses.
- Performance ratings do not include the effects of appurtenances.
- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
- L_{pAin} dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

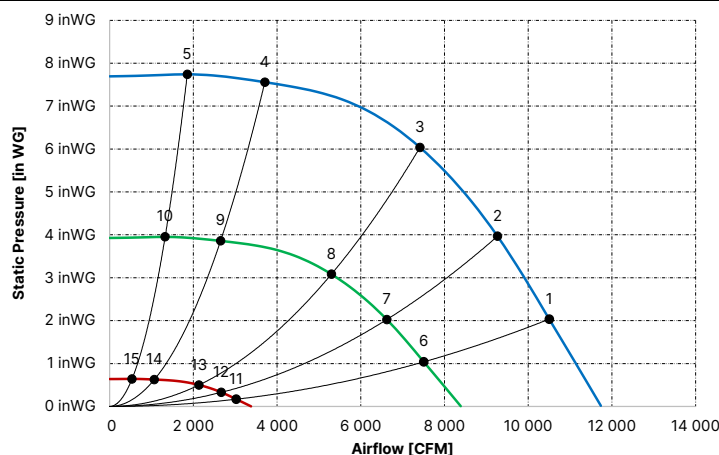
Fan Efficiency Grade (FEG), AMCA 205-10

85

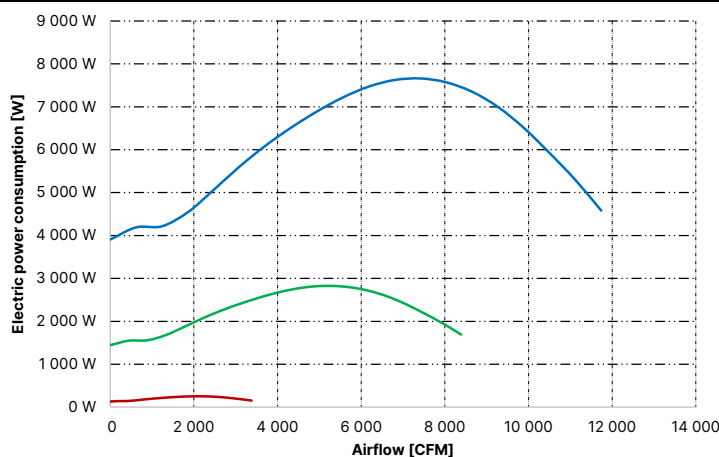
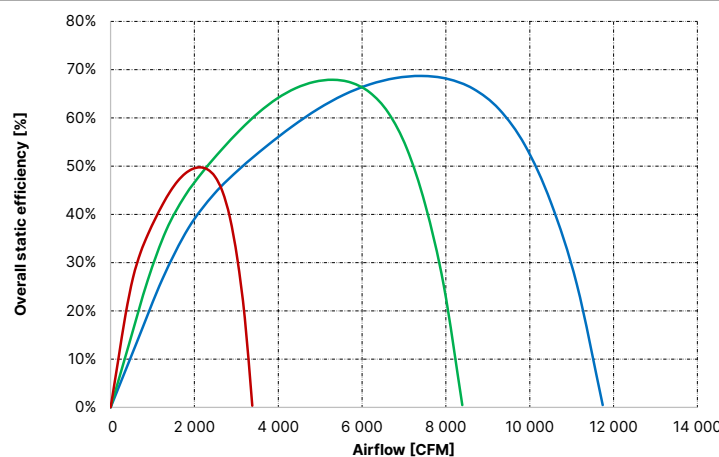
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	2 050	10 502	2.04	9.9	5.92	82.9	90.9	97.1	0.99
2	2 050	9 267	3.97	11.5	7.00	82.3	90.3	96.4	1.38
3	2 050	7 413	6.04	12.6	7.66	79.7	87.7	93.4	1.51
4	2 050	3 707	7.56	10.2	6.09	85.1	93.1	98.2	1.17
5	2 050	1 853	7.74	7.8	4.54	87.2	95.2	100.6	0.83
6	1 465	7 505	1.04	4.1	2.19	75.6	83.6	89.9	1.10
7	1 465	6 622	2.03	4.7	2.58	75.0	83.0	89.1	1.41
8	1 465	5 298	3.08	5.1	2.83	72.4	80.4	86.1	1.51
9	1 465	2 649	3.86	4.2	2.25	77.8	85.8	90.9	1.19
10	1 465	1 324	3.95	3.3	1.68	79.9	87.9	93.3	0.87
11	590	3 023	0.17	1.1	0.19	55.9	63.9	70.1	2.02
12	590	2 667	0.33	1.1	0.23	55.2	63.2	69.3	1.95
13	590	2 134	0.50	1.1	0.25	52.6	60.6	66.4	1.80
14	590	1 067	0.63	1.1	0.20	58.1	66.1	71.1	1.43
15	590	533	0.64	1.0	0.15	60.2	68.2	73.6	1.16

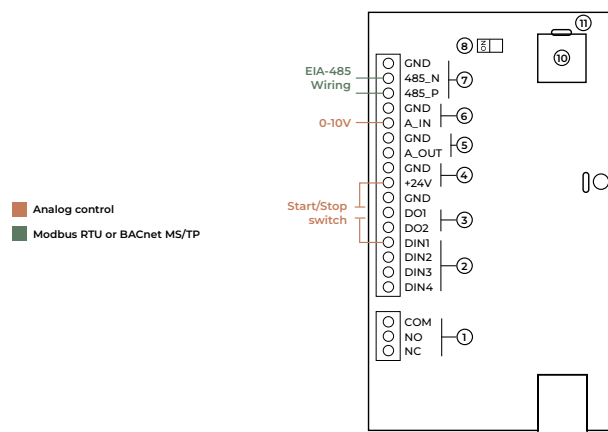
dP = f(V)



EPC = f(V)

 $\eta_{es} = f(V)$ 

Power supply and control connections



Apperance



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.

General specification

Model	AF-A630-FSEC-RTC/11.2-INF-A
Rated Voltage	3×380-480 VAC / 60 Hz
Nominal Input Power / Rated Current	11.00 kW / 15.7 A
Revolutions: Min / Nominal	500 ÷ 1800 RPM
CAV K-factor	495
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	218 Lbs

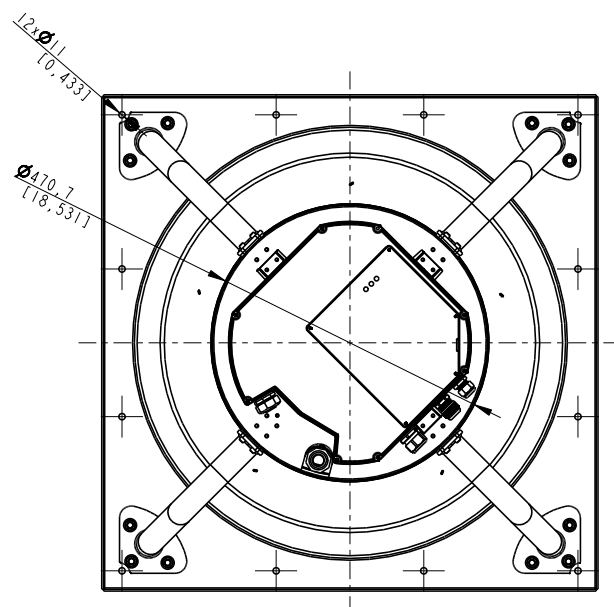
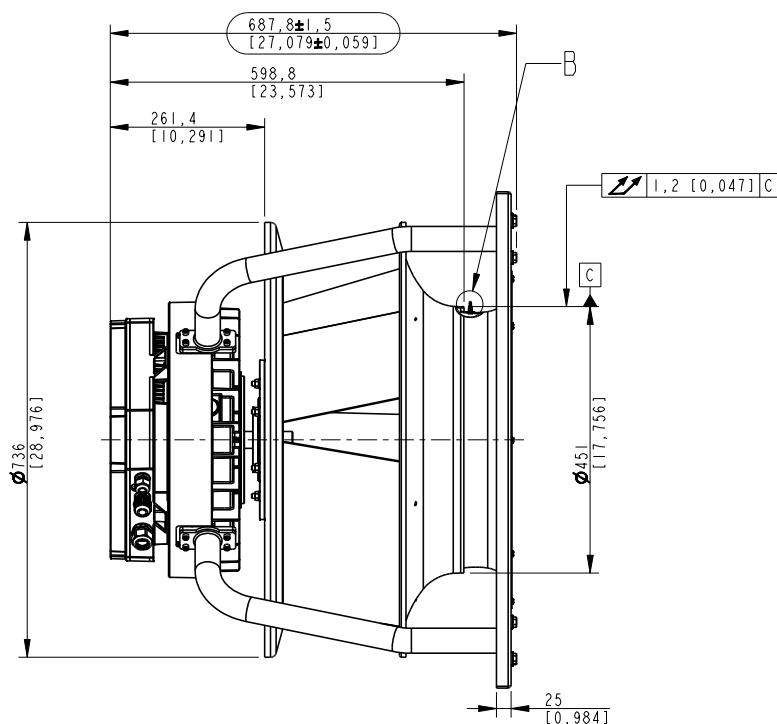
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	50 000 h (104 °F)

Impeller

Fan Impeller Size, Blade design / No	630 mm / Aerofoil / 5
Spinning direction	Clockwise, wiewed from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation (EU) 327/2011 Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	72.5%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	10.48 kW
9	Air flow q_v	9 828 CFM
	Pressure increase p_{fs}	6.46 inWG
10	Speed (rpm) n	1 800
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



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- Power rating does not include transmission losses.
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- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
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AMCA Fan Efficiency Grade

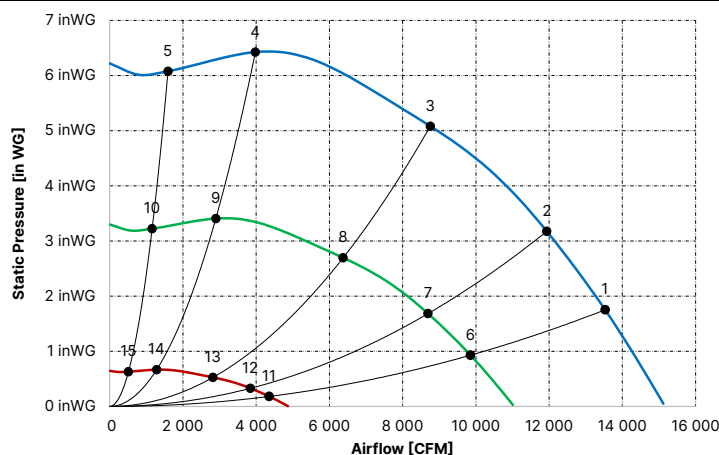
Fan Efficiency Grade (FEG), AMCA 205-10

85

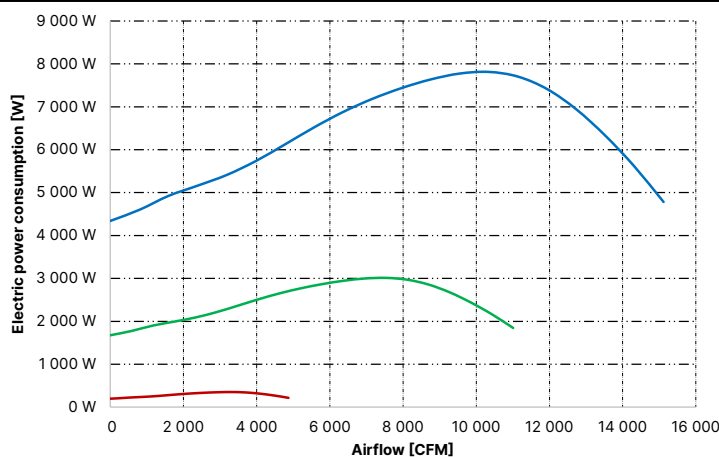
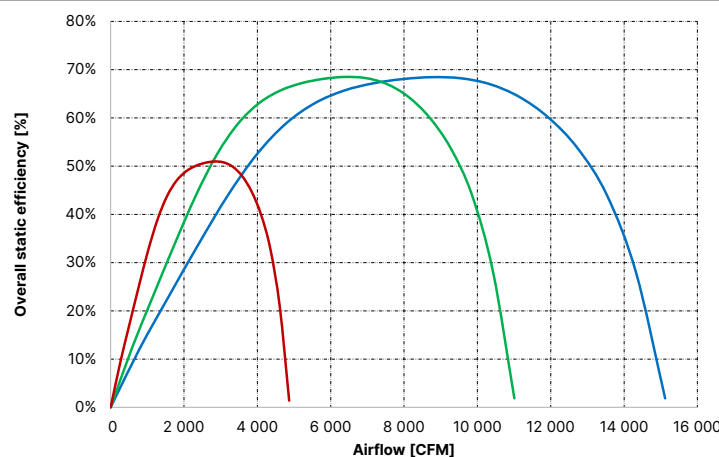
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	1 600	13 529	1.75	10.1	6.33	83.5	91.5	96.9	1.06
2	1 600	11 937	3.17	11.7	7.41	81.6	89.6	95.7	1.37
3	1 600	8 754	5.08	12.0	7.64	78.2	86.2	91.9	1.52
4	1 600	3 979	6.43	9.2	5.74	83.5	91.5	96.5	1.13
5	1 600	1 592	6.08	8.0	4.92	85.5	93.5	98.9	0.52
6	1 165	9 851	0.93	4.3	2.44	76.6	84.6	90.0	1.19
7	1 165	8 692	1.68	4.9	2.86	74.7	82.7	88.8	1.43
8	1 165	6 374	2.69	5.1	2.95	71.3	79.3	85.0	1.54
9	1 165	2 897	3.41	4.0	2.21	76.6	84.6	89.7	1.17
10	1 165	1 159	3.22	3.5	1.90	78.6	86.6	92.0	0.57
11	515	4 355	0.18	1.1	0.28	58.9	66.9	72.3	2.00
12	515	3 842	0.33	1.2	0.33	57.0	65.0	71.1	1.90
13	515	2 818	0.53	1.2	0.34	53.6	61.6	67.2	1.76
14	515	1 281	0.67	1.1	0.26	58.9	66.9	71.9	1.34
15	515	512	0.63	1.0	0.22	60.9	68.9	74.3	0.76

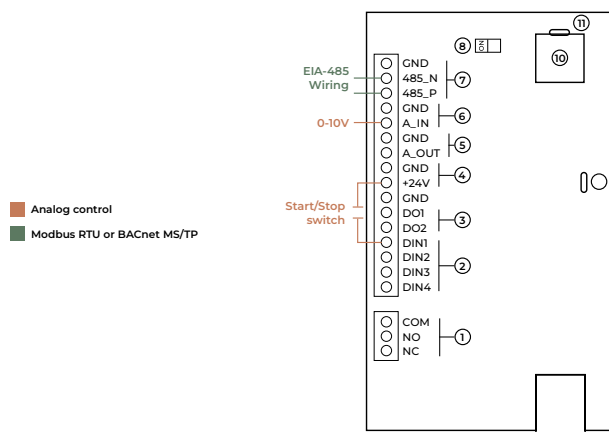
dP = f(V)



EPC = f(V)

 $\eta_{es} = f(V)$ 

Power supply and control connections



Apperance



Application

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Fitted for vertical and horizontal arrangement

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LWA according to ISO 13347.

General specification

Model	AF-A630-FSEC-RTC/11.2-INF-A
Rated Voltage	3×380-480 VAC / 60 Hz
Nominal Input Power / Rated Current	11.00 kW / 15.7 A
Revolutions: Min / Nominal	500 ÷ 1800 RPM
CAV K-factor	495
Temperature ranges: Storage / Operating	-40 ÷ 122 °F / -4 ÷ 104 °F
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	218 Lbs

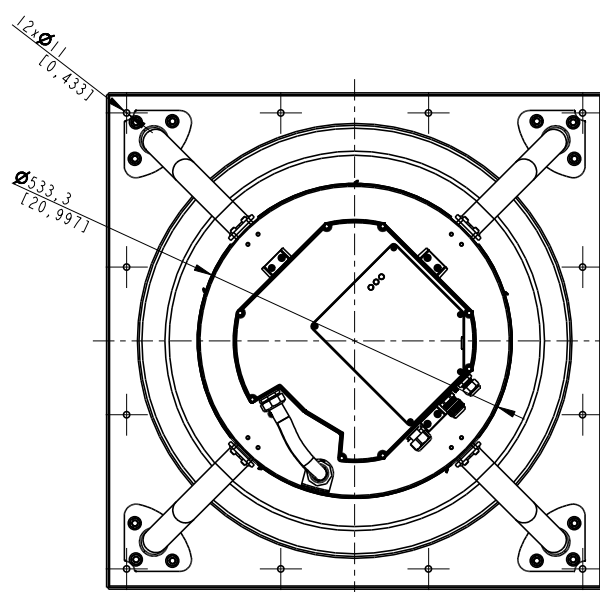
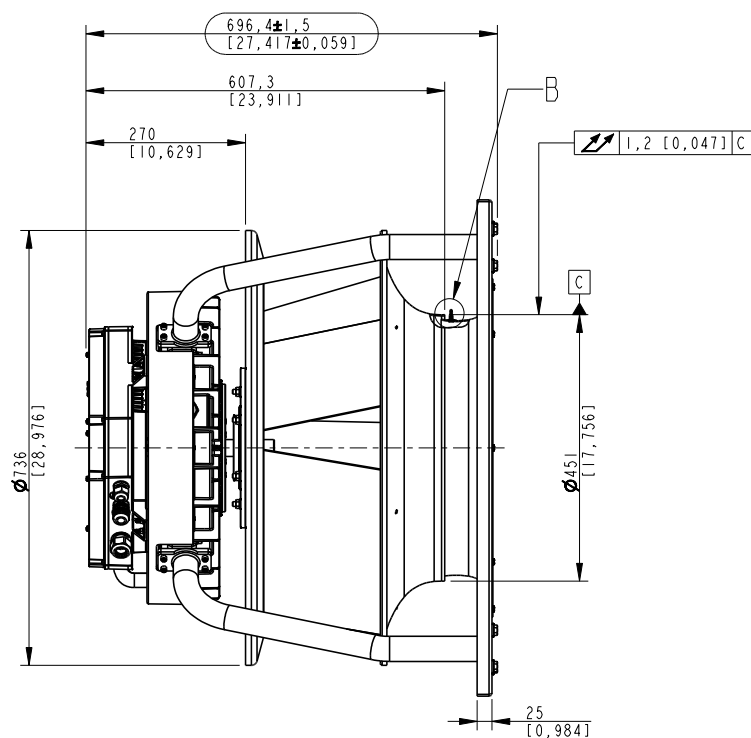
Motor

Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	50 000 h (40 °C)

Impeller

Fan Impeller Size, Blade design / No	630 mm / Aerofoil / 5
Spinning direction	Clockwise, wieved from air inlet
Impeller / Inlet Cone material	Aluminum / Hot-dip galvanized steel
Balance grade	G 6,3 (ISO 1940-1) / BV-3 (ANSI S2.19-1989)

Installation Dimensions



Information according to (EU) 327/2011 (ERP 2018)

Commission Regulation
(EU) 327/2011Requirements for fans driven by motors with an electric
input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	72.5%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption P_{ed}	10.48 kW
9	Air flow q_v	9 828 CFM
	Pressure increase pfs	6.46 inWG
10	Speed (rpm) n	1 800
11	Specific ratio	1.01

Compliance with Standards

ISO 5801:2017	„Fans – Performance testing using standardized airways“
ANSI/AMCA Standard 210-16	Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
ANSI/AMCA Standard 300-14	Reverberant Room Method for Sound Testing of Fans
AMCA Standard 205-10	Energy Efficiency Classification for Fans
ANSI/AMCA Standard 208-18	Calculation of the Fan Energy Index



Swiss Rotors Sp. z o.o. certifies that the

AF-A630-FSEC-RTC/11.2-INF-A EC Fan

shown herein are 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.

- Power rating does not include transmission losses.
- Performance ratings do not include the effects of appurtenances.
- Performance certified is for installation type A (Free inlet, free outlet).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- FEI calculation is based on wire-to-air tests.
- L_{pAin} dBA levels are not licensed by AMCA International.



AMCA Fan Efficiency Grade

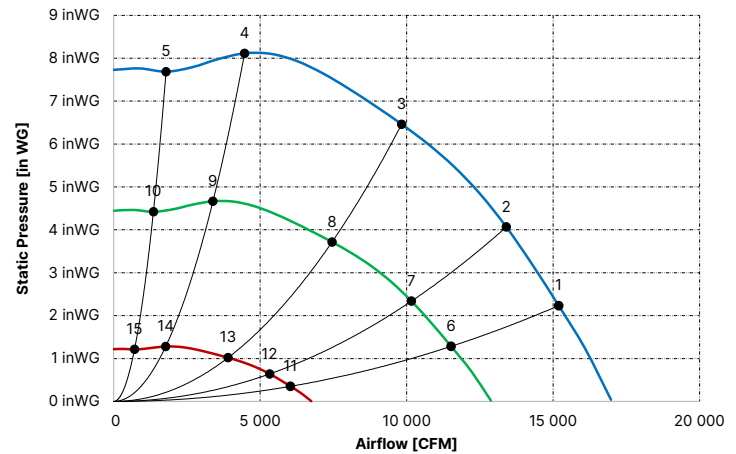
Fan Efficiency Grade (FEG), AMCA 205-10

85

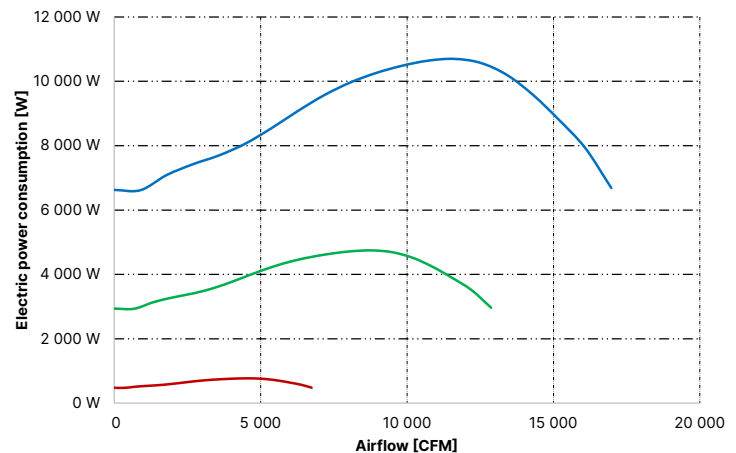
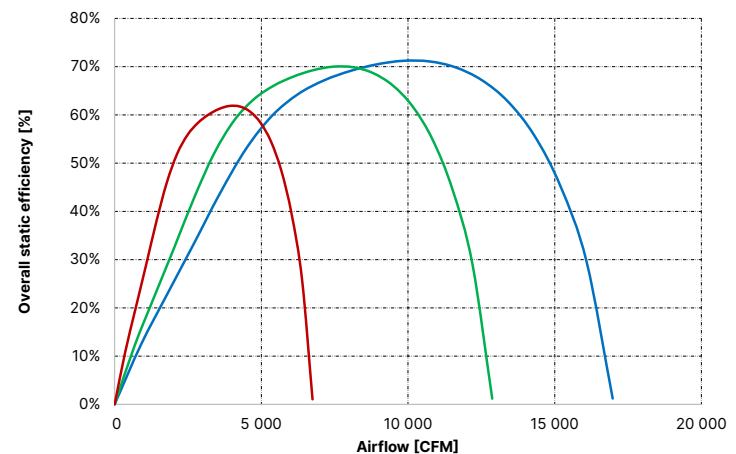
Measured Points

Point #	n RPM	V [CFM]	dP [inWG]	I [A]	EPC [kW]	L_{pAin} dB(A)	L_{wAin} dB(A)	L_{wAout} dB(A)	FEI
1	1 800	15 189	2.23	14.3	8.80	86.1	94.1	99.5	1.07
2	1 800	13 402	4.07	16.5	10.20	84.1	92.1	98.2	1.44
3	1 800	9 828	6.46	16.9	10.48	80.7	88.7	94.4	1.61
4	1 800	4 467	8.11	13.1	8.06	86.0	94.0	99.1	1.15
5	1 800	1 787	7.69	11.6	7.09	88.1	96.1	101.4	0.51
6	1 365	11 518	1.28	6.7	3.90	80.1	88.1	93.5	1.12
7	1 365	10 163	2.34	7.7	4.53	78.1	86.1	92.2	1.42
8	1 365	7 453	3.72	7.9	4.65	74.7	82.7	88.4	1.55
9	1 365	3 388	4.67	6.2	3.57	80.0	88.0	93.1	1.13
10	1 365	1 355	4.42	5.6	3.14	82.0	90.0	95.4	0.53
11	715	6 033	0.35	1.7	0.64	66.0	74.0	79.4	1.58
12	715	5 324	0.64	1.8	0.74	64.1	72.1	78.2	1.68
13	715	3 904	1.02	1.9	0.76	60.7	68.7	74.4	1.66
14	715	1 775	1.28	1.6	0.58	66.0	74.0	79.1	1.24
15	715	710	1.21	1.5	0.51	68.0	76.0	81.4	0.64

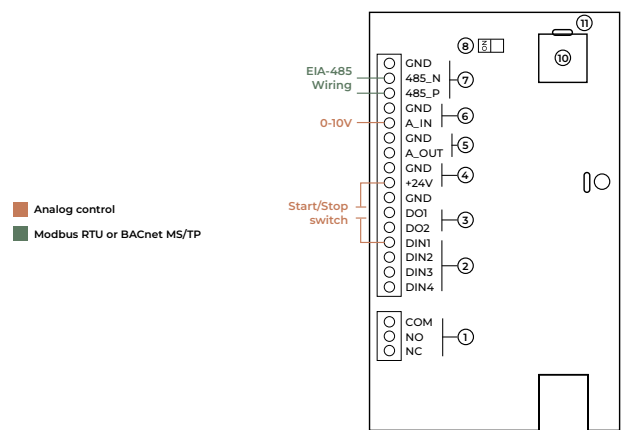
dP = f(V)



EPC = f(V)

 $\eta_{es} = f(V)$ 

Power supply and control connections



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