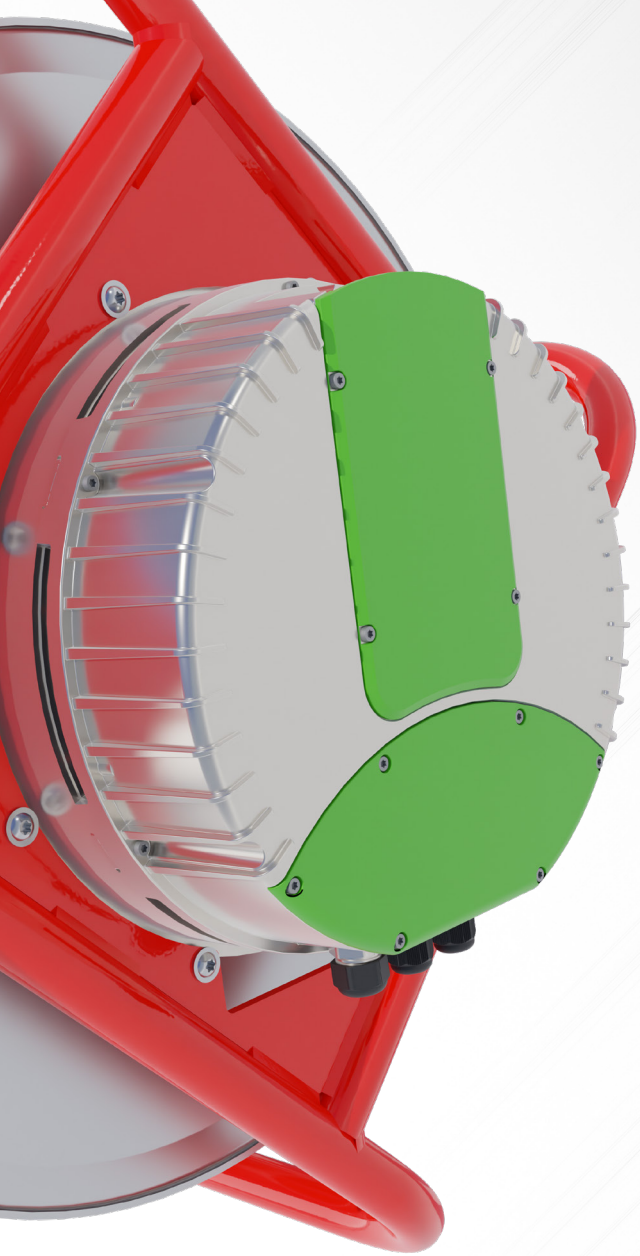


EC Fan Sets

315-630 mm

Backward Curved

Single Inlet, Single Width

Aluminum Impellers

Technical Catalog in Metric Units

SR-A315-FSEC-RTB/1.9-ECT-A

SR-A355-FSEC-RTB/2.3-ECT-A

SR-A355-FSEC-RTB/5.0-ECT-A

SR-A400-FSEC-RTB/1.9-ECT-A

SR-A400-FSEC-RTB/5.6-ECT-A

SR-A450-FSEC-RTB/2.3-ECT-A

SR-A450-FSEC-RTB/5.1-ECT-A

SR-A450-FSEC-RTB/8.1-ECT-A

SR-A500-FSEC-RTB/5.1-ECT-A

SR-A500-FSEC-RTB/7.8-ECT-A

SR-A560-FSEC-RTB/5.1-ECT-A

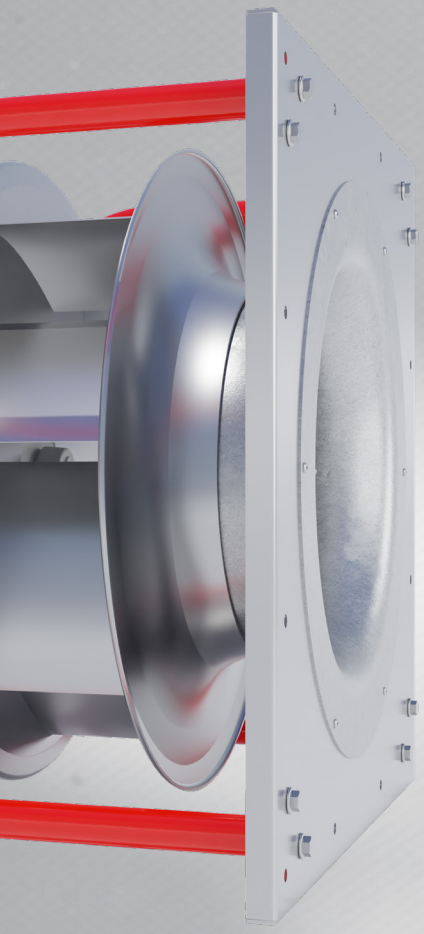
SR-A560-FSEC-RTB/7.6-ECT-A

AF-A630-FSEC-RTB/6.5-ECT-A

SWISS ROTORS

Catalog ver: 20260626 (June, 2026)

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?

2004
HVAC component business in Poland, Europe.

2014
Developed unique, patent-pending wheel winding technology.

2017
Swiss financial fund acquired our operations in US and Poland to further develop technology and global growth - beginning of Swiss Rotors Group.

2018
New factory in the US. ETL & AHRI certification for Energy Recovery Wheels. New Headquarter in Switzerland.

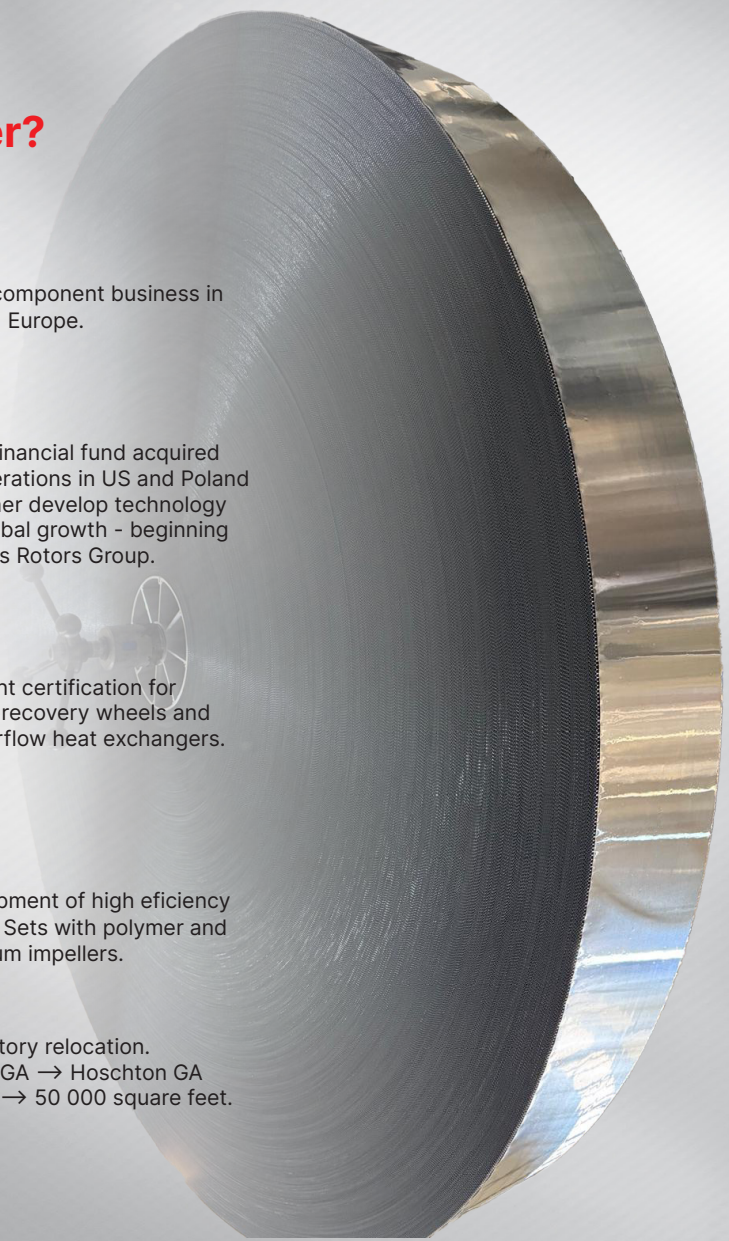
2020
Eurovent certification for energy recovery wheels and counterflow heat exchangers.

2021
New range of high efficiency polymer counterflow heat exchanger.

2022
Development of high eficiency EC Fan Sets with polymer and aluminum impellers.

2024
SFC – new range of Energy Recovery Wheels. EC Fans certified by AMCA. EC Fans up to 560 mm.

2025
US Factory relocation.
Buford GA → Hoschton GA
12 000 → 50 000 square feet.



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.

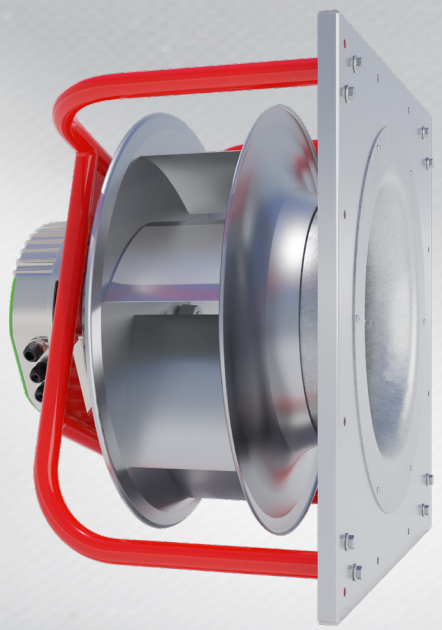
Where respect to energy is a key aspect of every designed, built and operated ventilation system.

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

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



Avaiable 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

Complience 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

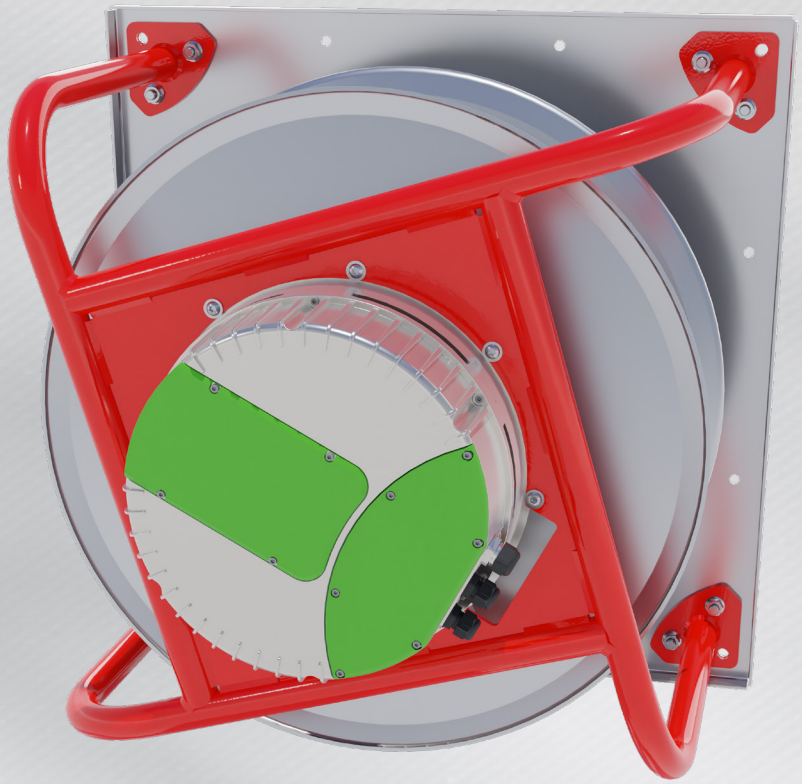
Sorting of initial selections by size and efficiency

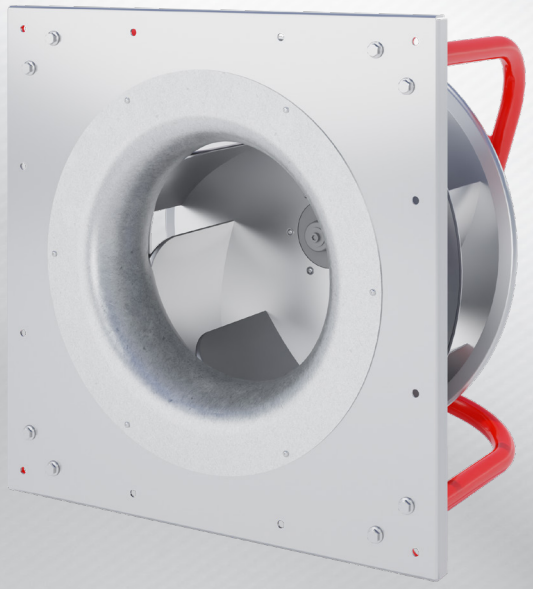
Precise dimensional data presented in selections

Dimensional drawing library

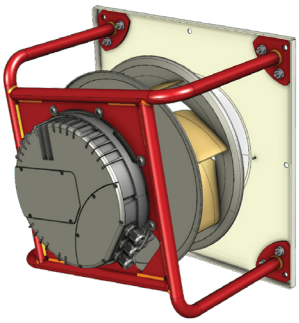
https://swissrotors.selector.promaster.se/EU/catalog/product/SR_FS//

SWISS ROTORS





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-A315-FSEC-RTB/1.9-ECT-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	1.90 kW / 2.3 A
Revolutions: Min / Nominal	500 ÷ 3300 RPM
CAV K-factor	94
Temperature ranges: Storage / Operating	-30 ÷ 50 °C / -20 ÷ 40 °C
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal / Vertical shaft
Weight:	21 kg

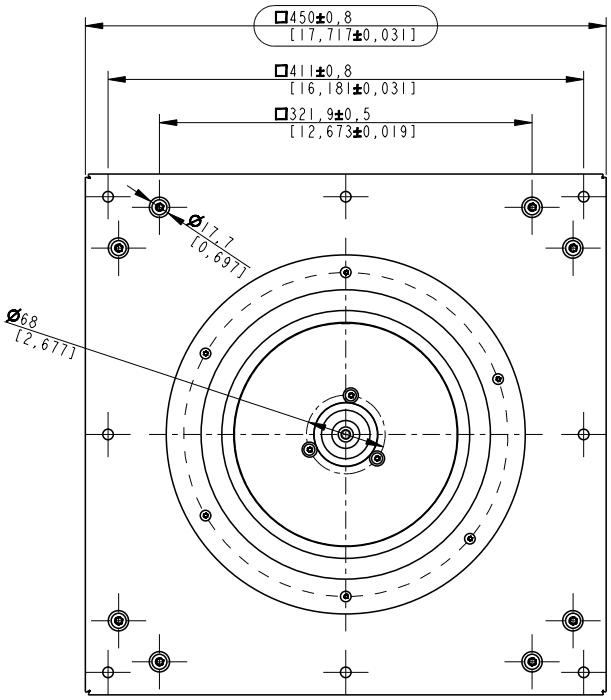
Motor

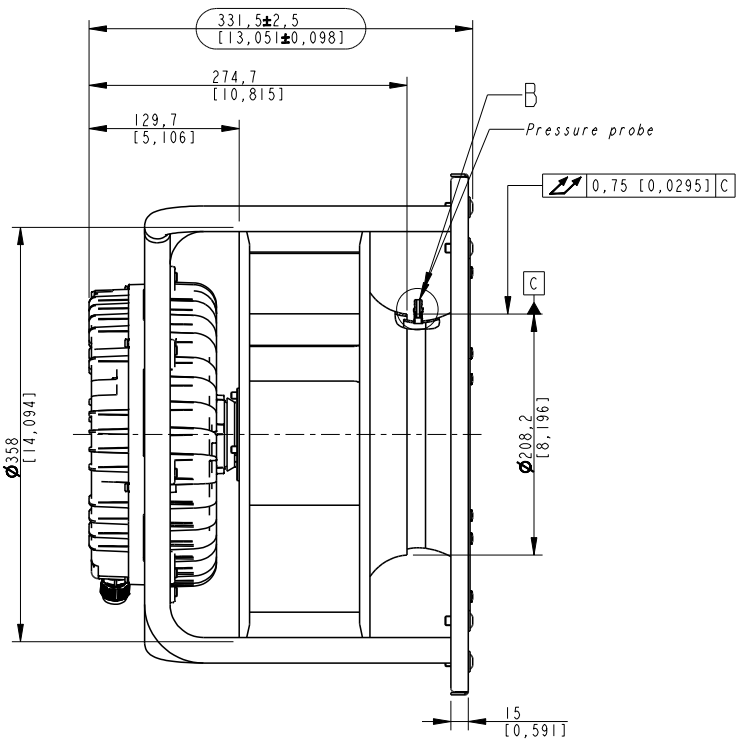
Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection. Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	77 736 h (40 °C)

Impeller

Fan Impeller Size, Blade design / No	315 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}	68.6%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption Ped	1.80 kW
9	Air flow qv	3 425 m3/h
	Pressure increase pfs	4 110 Pa
10	Speed (rpm) n	3 300
11	Specific ratio	1.01

Complience 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

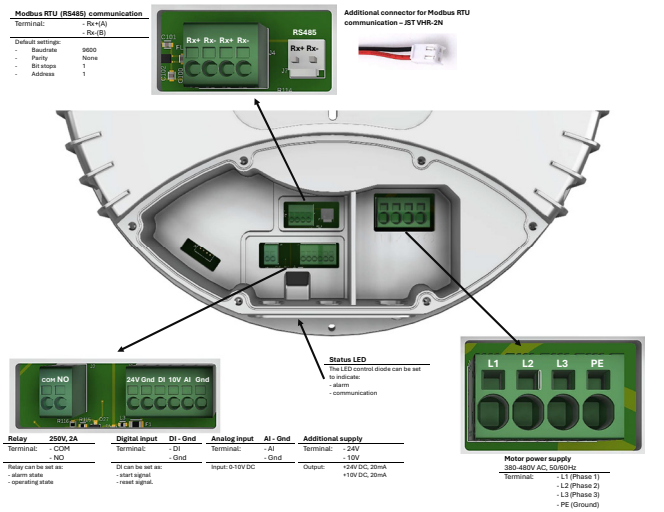
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	85

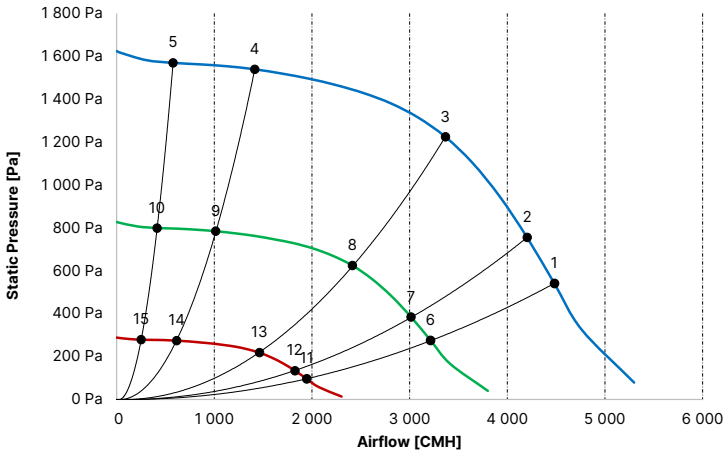
Measured Points

Point #	n RPM	V [m³/h]	dP [Pa]	I[A] [A]	EPC [kW]	L_pA_{in} dB(A)	L_wA_{in} dB(A)	L_wA_{out} dB(A)	FEI
1	3 300	4 483	541	2.3	1.46	76.3	84.3	89.9	1.09
2	3 300	4 204	755	2.4	1.58	76.3	84.3	90.1	1.27
3	3 300	3 367	1 224	2.7	1.79	76.0	84.0	88.8	1.43
4	3 300	1 414	1 539	2.1	1.35	79.9	87.9	93.3	1.13
5	3 300	578	1 569	1.6	1.00	80.2	88.2	93.7	0.83
6	2 367	3 215	275	1.0	0.56	69.1	77.1	82.7	1.22
7	2 367	3 015	384	1.1	0.61	69.1	77.1	82.8	1.38
8	2 367	2 415	624	1.2	0.69	68.8	76.8	81.6	1.50
9	2 367	1 014	784	1.0	0.52	72.7	80.7	86.1	1.23
10	2 367	414	799	0.8	0.39	73.0	81.0	86.4	0.98
11	1 433	1 947	96	0.4	0.14	58.2	66.2	71.8	1.62
12	1 433	1 826	134	0.5	0.16	58.2	66.2	71.9	1.69
13	1 433	1 462	218	0.5	0.18	57.9	65.9	70.7	1.70
14	1 433	614	274	0.4	0.13	61.8	69.8	75.2	1.47
15	1 433	251	279	0.4	0.10	62.1	70.1	75.5	1.30

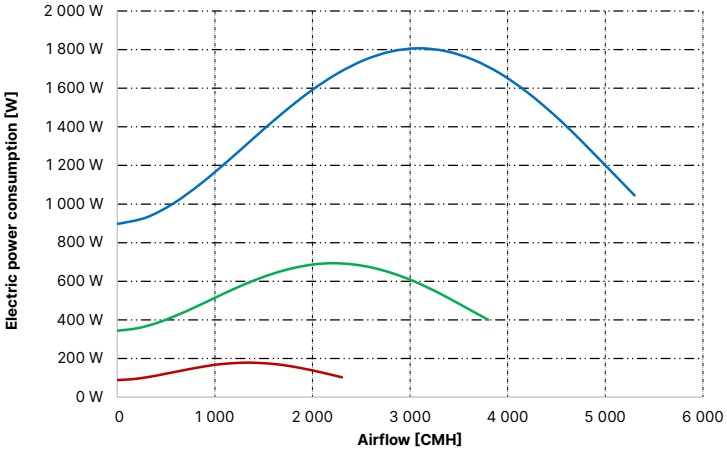
Power supply and control connections



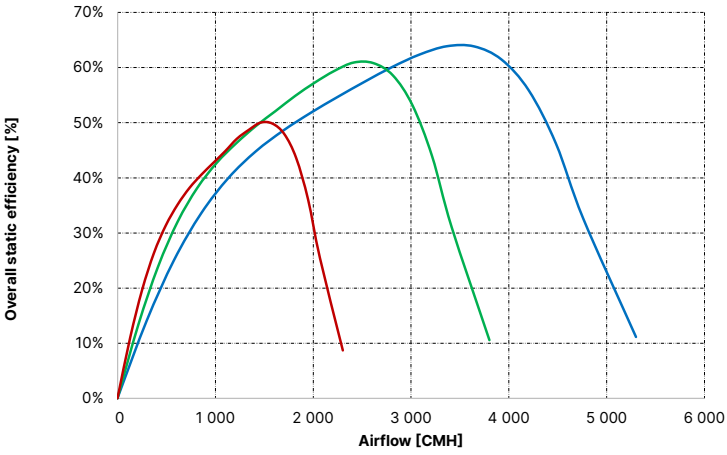
dP = f(V)



EPC = f(V)



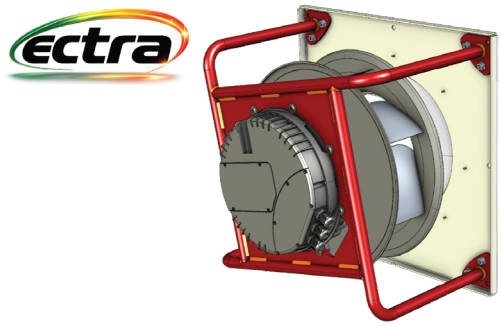
η_{es} = f(V)



SWISS ROTORS

*In the interest of continuous product improvement in the field of design, performance and reliability, Swiss Rotors Company reserves the right to make changes to this specification without prior notice.

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-A355-FSEC-RTB/2.3-ECT-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	2.30 kW / 3.0 A
Revolutions: Min / Nominal	500 ÷ 2900 RPM
CAV K-factor	95
Temperature ranges: Storage / Operating	-30 ÷ 50 °C / -20 ÷ 40 °C
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal shaft
Weight:	26 kg

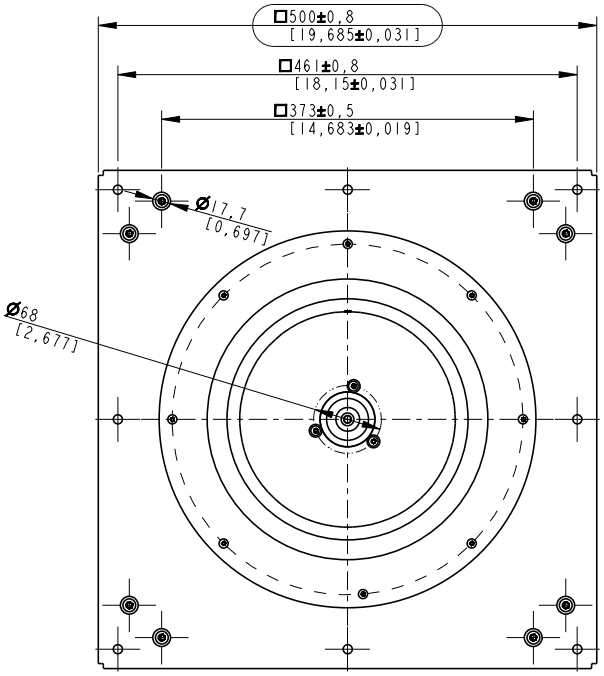
Motor

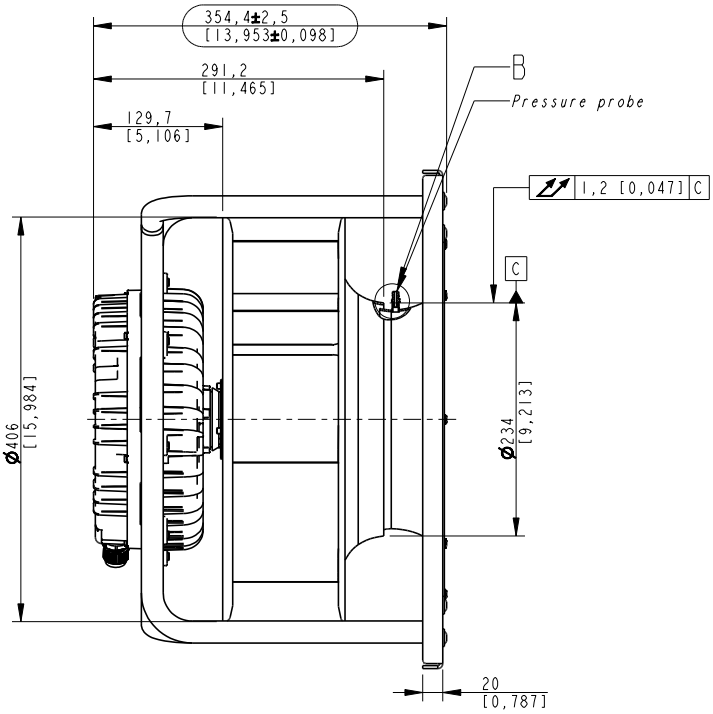
Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection. Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	77 736 h (40 °C)

Impeller

Fan Impeller Size, Blade design / No	355 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}	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 Ped	2.20 kW
9	Air flow qv	4 480 m3/h
	Pressure increase pfs	1 172 Pa
10	Speed (rpm) n	2 900
11	Specific ratio	1.01

Complience 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

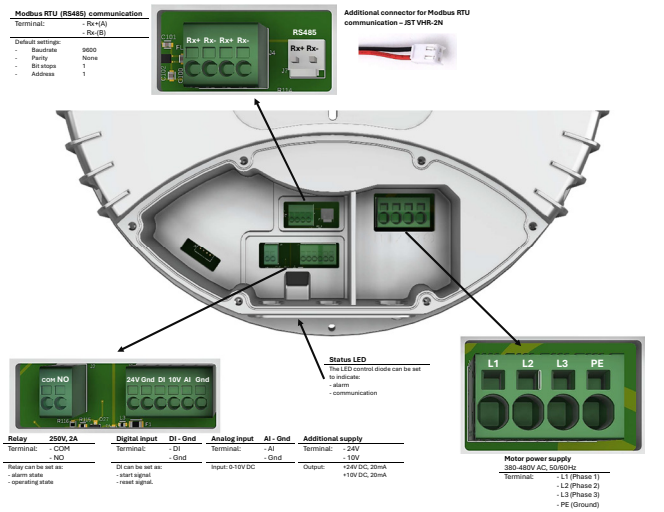
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

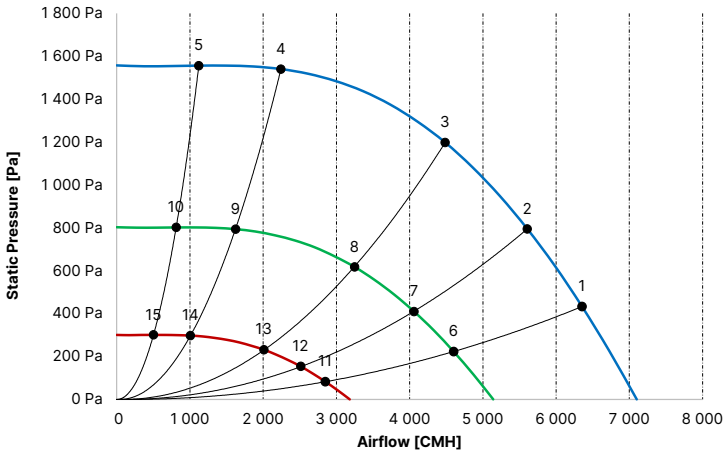
Measured Points

Point #	n RPM	V [m³/h]	dP [Pa]	I[A] [A]	EPC [kW]	L_pA_{in} dB(A)	L_wA_{in} dB(A)	L_wA_{out} dB(A)	FEI
1	2 900	6 353	433	2.8	1.81	79.2	87.2	93.1	1.01
2	2 900	5 605	795	3.2	2.08	77.6	85.6	91.4	1.33
3	2 900	4 484	1 198	3.4	2.25	77.1	85.1	91.2	1.46
4	2 900	2 242	1 540	2.8	1.83	79.5	87.5	93.1	1.21
5	2 900	1 121	1 556	2.1	1.33	81.3	89.3	94.8	0.96
6	2 100	4 600	223	1.2	0.68	72.1	80.1	86.1	1.19
7	2 100	4 059	410	1.3	0.78	70.6	78.6	84.4	1.46
8	2 100	3 247	618	1.4	0.85	70.1	78.1	84.2	1.56
9	2 100	1 624	794	1.2	0.69	72.5	80.5	86.1	1.32
10	2 100	812	802	0.9	0.50	74.3	82.3	87.8	1.11
11	1 300	2 848	83	0.5	0.17	61.7	69.7	75.7	1.72
12	1 300	2 513	154	0.5	0.20	60.2	68.2	74.0	1.85
13	1 300	2 010	232	0.5	0.22	59.7	67.7	73.7	1.86
14	1 300	1 005	298	0.5	0.18	62.1	70.1	75.7	1.61
15	1 300	503	301	0.4	0.13	63.9	71.9	77.4	1.45

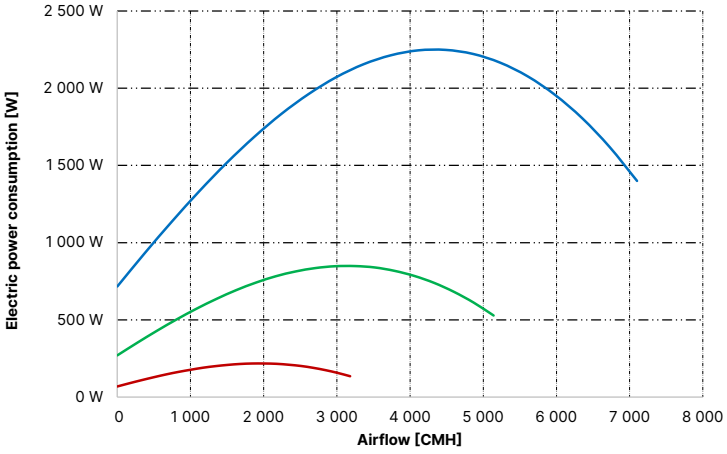
Power supply and control connections



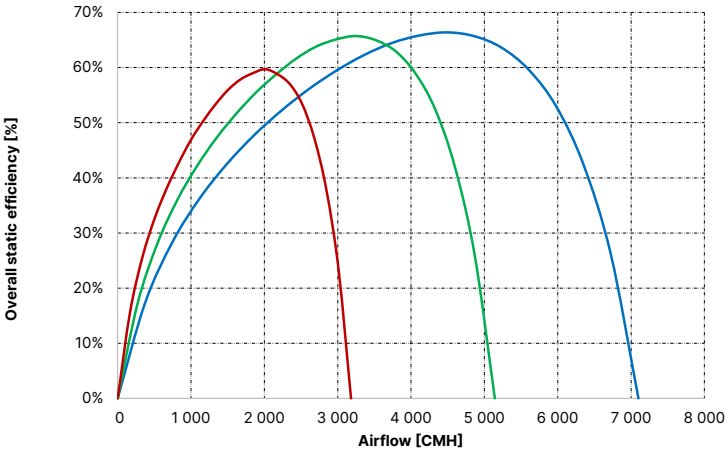
dP = f(V)



EPC = f(V)

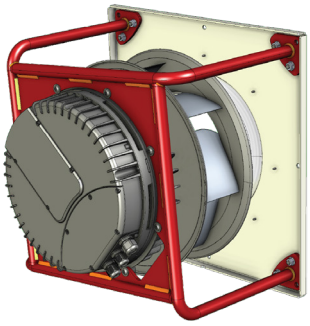


η_{es} = f(V)



SWISS ROTORS

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-A355-FSEC-RTB/5.0-ECT-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	5.00 kW / 6.7 A
Revolutions: Min / Nominal	500 ÷ 3800 RPM
CAV K-factor	92
Temperature ranges: Storage / Operating	-30 ÷ 50 °C / -20 ÷ 40 °C
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal shaft
Weight:	37 kg

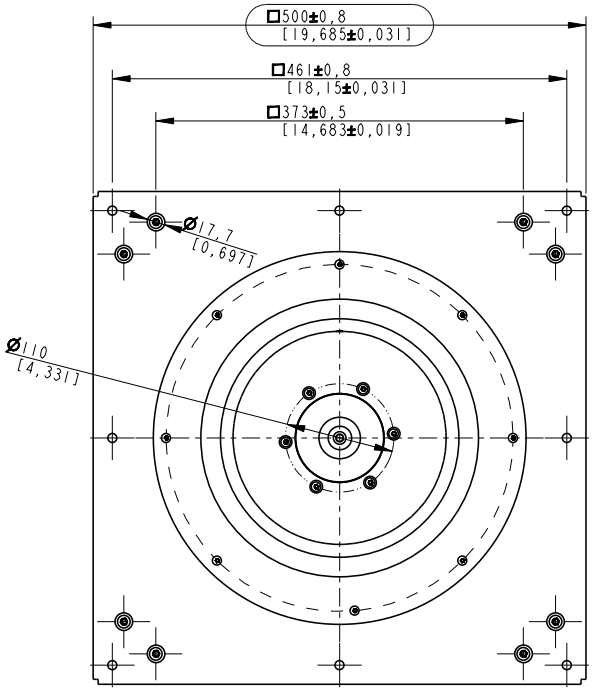
Motor

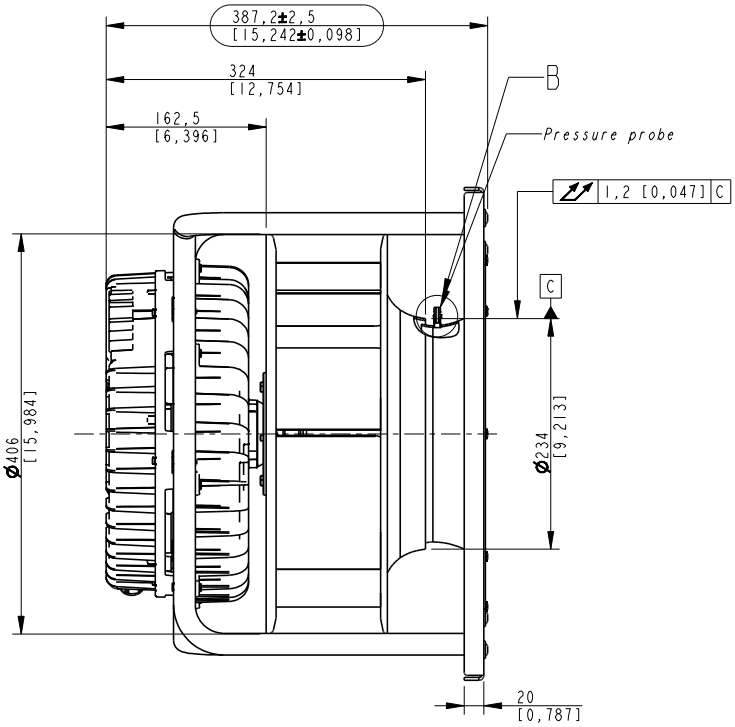
Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection. Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	65 826 h (40 °C)

Impeller

Fan Impeller Size, Blade design / No	355 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}	71.4%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption Ped	4.80 kW
9	Air flow qv	2 902 m3/h
	Pressure increase pfs	1 995 Pa
10	Speed (rpm) n	3 800
11	Specific ratio	1.01

Complience 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

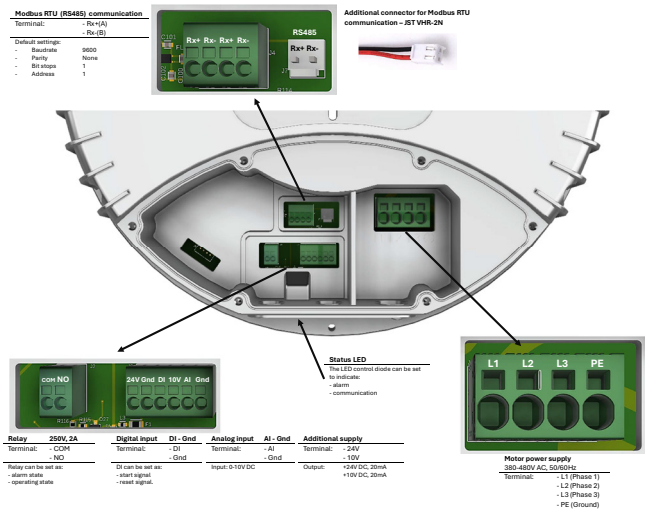
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	85

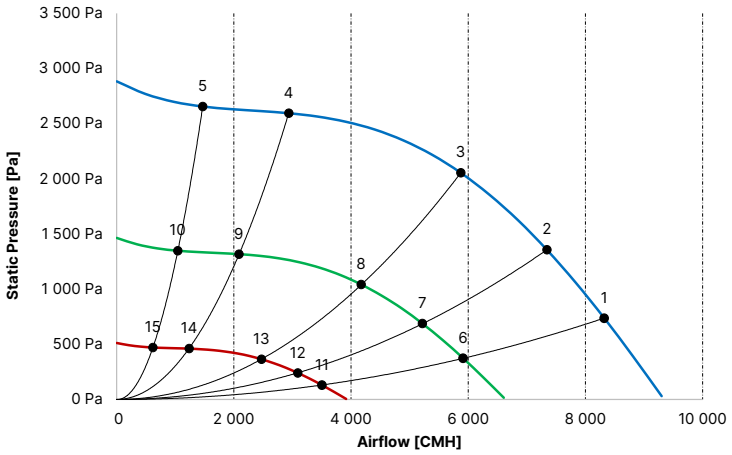
Measured Points

Point #	n RPM	V [m³/h]	dP [Pa]	I[A] [A]	EPC [kW]	L_pA_{in} dB(A)	L_wA_{in} dB(A)	L_wA_{out} dB(A)	FEI
1	3 800	8 321	737	6.4	3.97	85.0	93.0	99.0	0.95
2	3 800	7 342	1 356	7.2	4.52	83.4	91.4	97.2	1.33
3	3 800	5 874	2 054	7.7	4.89	83.0	91.0	97.0	1.49
4	3 800	2 937	2 595	6.4	3.95	85.4	93.4	99.0	1.20
5	3 800	1 468	2 656	5.0	2.93	87.2	95.2	100.7	0.91
6	2 700	5 912	374	3.1	1.51	77.6	85.6	91.6	1.00
7	2 700	5 217	688	3.3	1.72	76.0	84.0	89.8	1.31
8	2 700	4 173	1 042	3.5	1.87	75.6	83.6	89.6	1.44
9	2 700	2 087	1 317	3.0	1.51	77.9	85.9	91.6	1.19
10	2 700	1 043	1 348	2.5	1.12	79.8	87.8	93.2	0.95
11	1 600	3 504	130	1.5	0.37	66.2	74.2	80.2	1.21
12	1 600	3 091	240	1.6	0.42	64.7	72.7	78.5	1.41
13	1 600	2 473	364	1.6	0.46	64.2	72.2	78.3	1.47
14	1 600	1 237	461	1.5	0.37	66.6	74.6	80.2	1.25
15	1 600	618	471	1.4	0.28	68.4	76.4	81.9	1.08

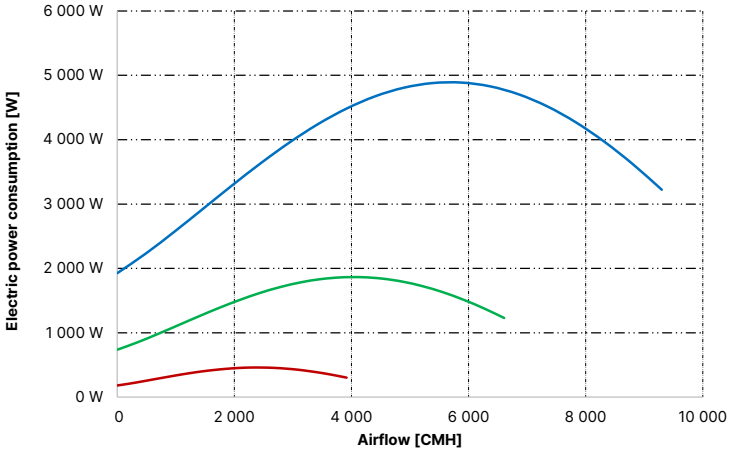
Power supply and control connections



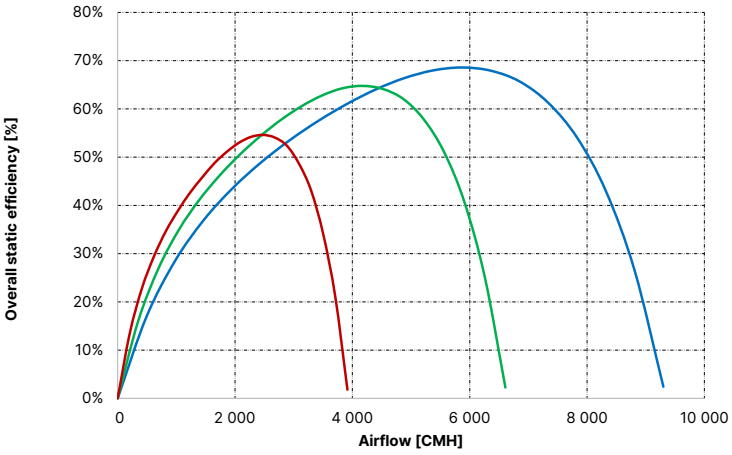
dP = f(V)



EPC = f(V)

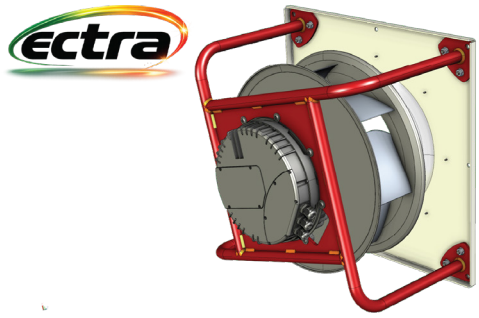


η_{es} = f(V)



SWISS ROTORS

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/1.9-ECT-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	1.90 kW / 2.3 A
Revolutions: Min / Nominal	500 ÷ 2200 RPM
CAV K-factor	164
Temperature ranges: Storage / Operating	-30 ÷ 50 °C / -20 ÷ 40 °C
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal shaft
Weight:	30 kg

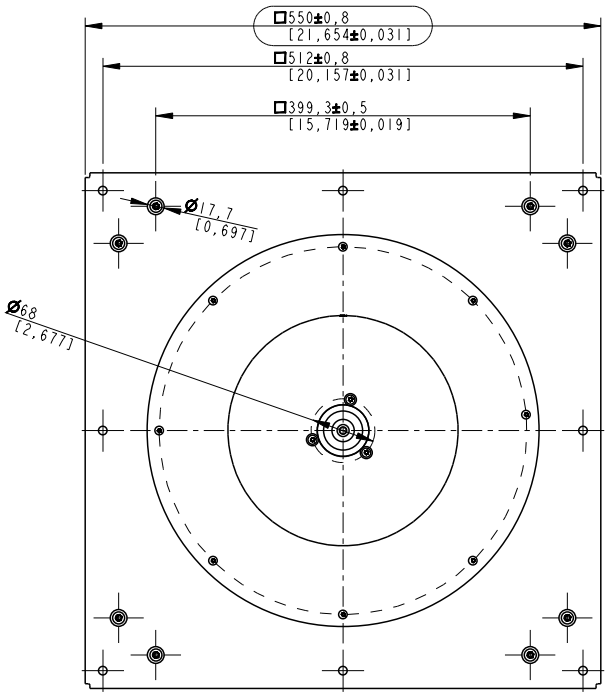
Motor

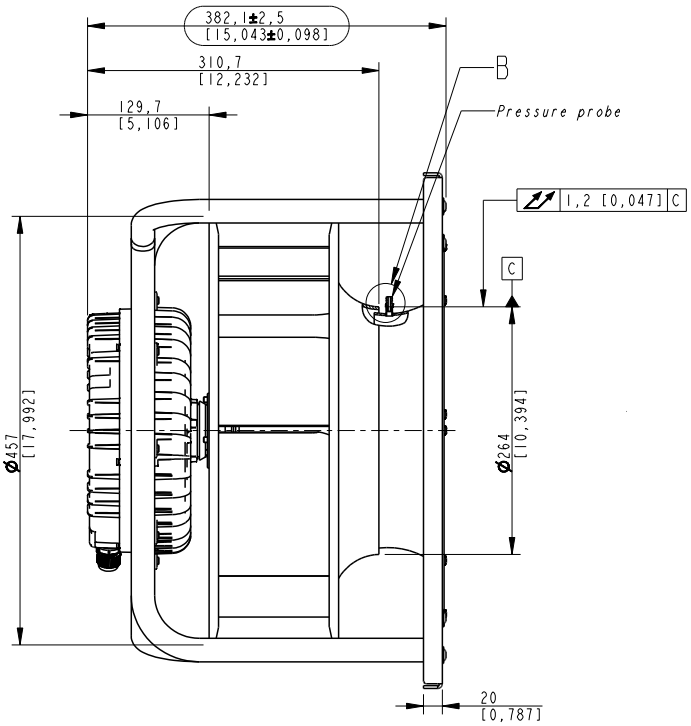
Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection. Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	77 736 h (40 °C)

Impeller

Fan Impeller Size, Blade design / No	400 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}	65.1%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption Ped	1.80 kW
9	Air flow qv	4 706 m3/h
	Pressure increase pfs	814 Pa
10	Speed (rpm) n	2 200
11	Specific ratio	1.01

Complience 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

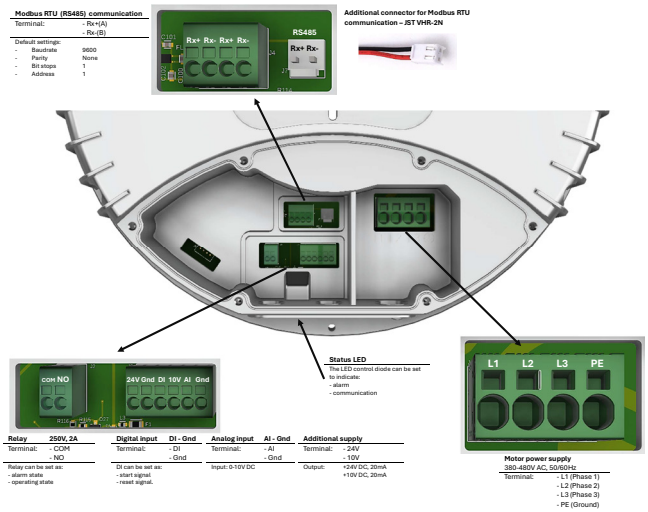
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

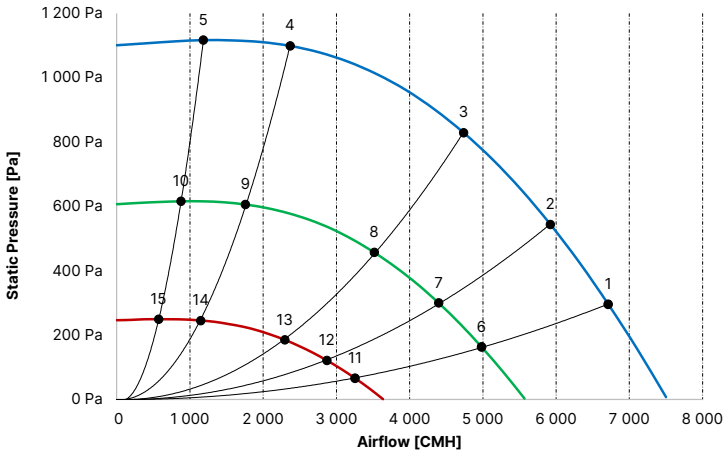
Measured Points

Point #	n RPM	V [m³/h]	dP [Pa]	I[A] [A]	EPC [kW]	L_pA_{in} dB(A)	L_wA_{in} dB(A)	L_wA_{out} dB(A)	FEI
1	2 200	6 711	296	2.2	1.41	79.5	87.5	90.9	1.01
2	2 200	5 921	544	2.5	1.64	76.4	84.4	88.5	1.26
3	2 200	4 737	829	2.7	1.80	73.6	81.6	86.9	1.36
4	2 200	2 368	1 099	2.2	1.44	76.2	84.2	89.6	1.17
5	2 200	1 184	1 117	1.7	1.07	77.7	85.7	91.4	0.92
6	1 633	4 982	163	1.0	0.58	73.1	81.1	84.4	1.23
7	1 633	4 396	300	1.1	0.67	69.9	77.9	82.0	1.44
8	1 633	3 517	457	1.2	0.73	67.2	75.2	80.4	1.50
9	1 633	1 758	606	1.0	0.59	69.7	77.7	83.1	1.31
10	1 633	879	616	0.8	0.44	71.2	79.2	84.9	1.07
11	1 067	3 254	66	0.4	0.17	63.8	71.8	75.2	1.80
12	1 067	2 871	121	0.5	0.20	60.7	68.7	72.8	1.85
13	1 067	2 297	185	0.5	0.22	57.9	65.9	71.2	1.79
14	1 067	1 148	245	0.4	0.17	60.5	68.5	73.9	1.57
15	1 067	574	249	0.4	0.13	62.0	70.0	75.6	1.37

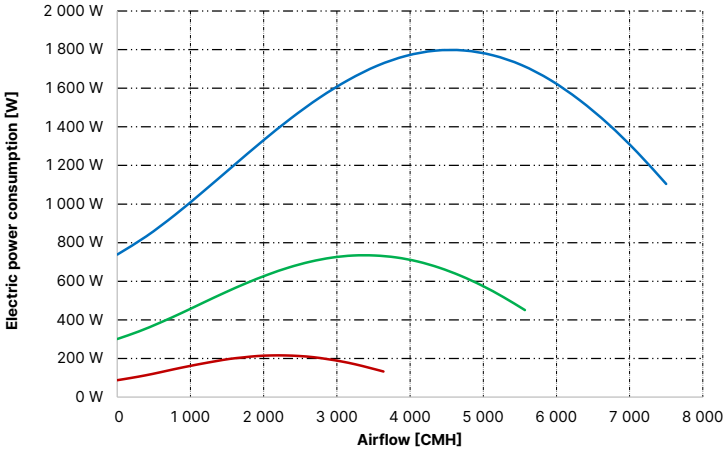
Power supply and control connections



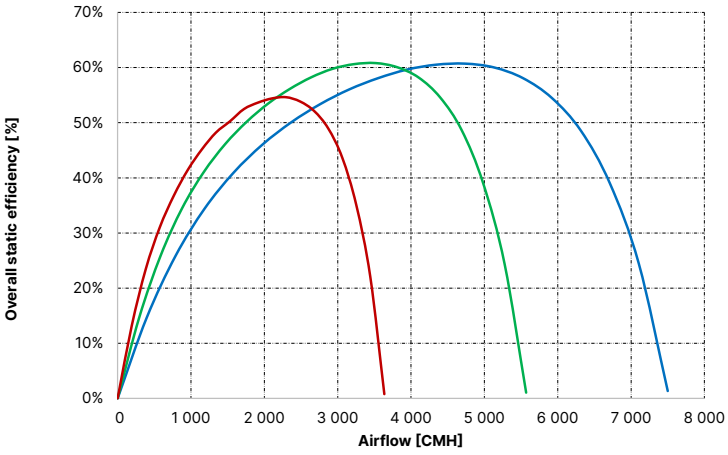
dP = f(V)



EPC = f(V)



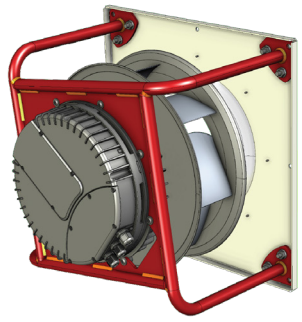
η_{es} = f(V)



SWISS ROTORS

*In the interest of continuous product improvement in the field of design, performance and reliability, Swiss Rotors Company reserves the right to make changes to this specification without prior notice.

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/5.6-ECT-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	5.60 kW / 7.0 A
Revolutions: Min / Nominal	500 ÷ 3250 RPM
CAV K-factor	165
Temperature ranges: Storage / Operating	-30 ÷ 50 °C / -20 ÷ 40 °C
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal shaft
Weight:	42 kg

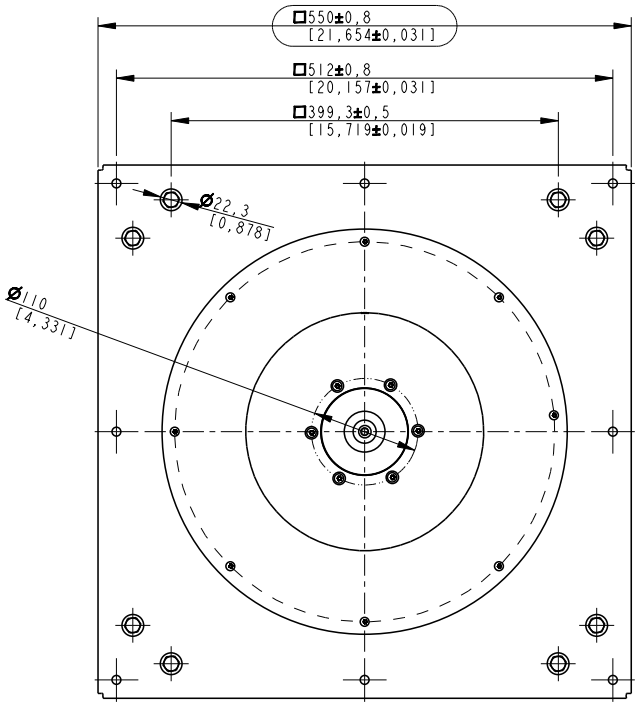
Motor

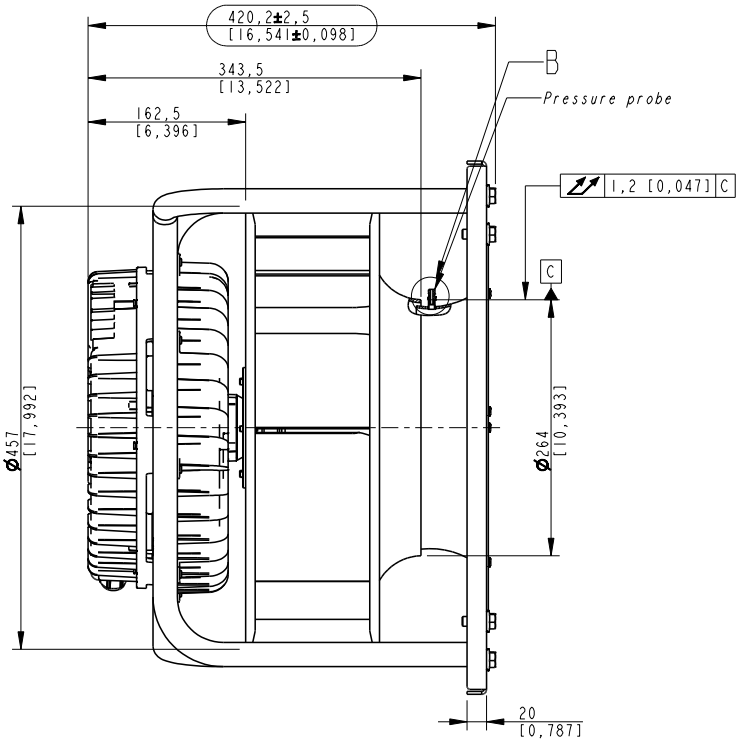
Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection. Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	65 826 h (40 °C)

Impeller

Fan Impeller Size, Blade design / No	400 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}	71.7%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
9	Power consumption Ped	5.40 kW
	Air flow qv	7 134 m3/h
	Pressure increase pfs	1 868 Pa
10	Speed (rpm) n	3 250
11	Specific ratio	1.01

Complience 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

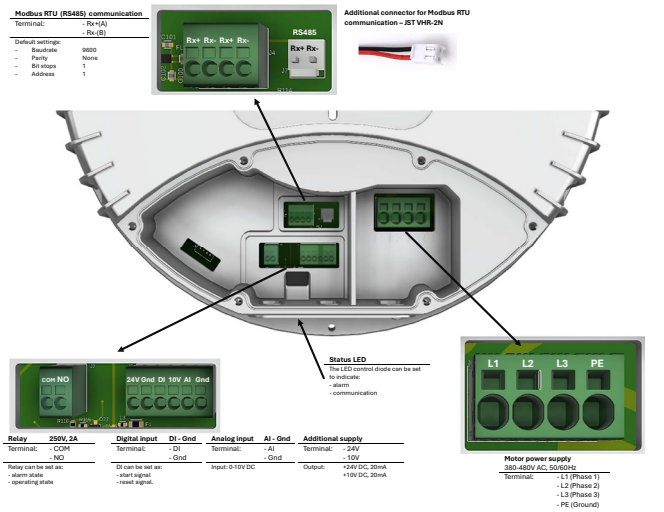
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

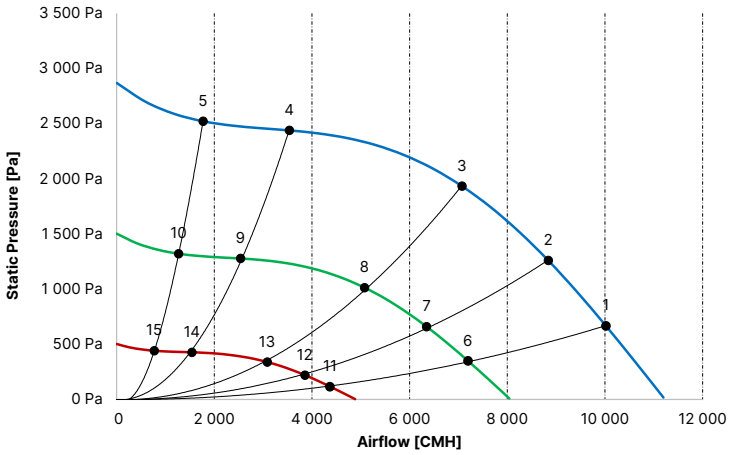
Measured Points

Point #	n RPM	V [m³/h]	dP [Pa]	I[A] [A]	EPC [kW]	L_pA_{in} dB(A)	L_wA_{in} dB(A)	L_wA_{out} dB(A)	FEI
1	3 250	10 021	667	6.6	4.33	88.3	96.3	99.6	0.96
2	3 250	8 842	1 259	7.5	5.03	85.0	93.0	97.1	1.33
3	3 250	7 074	1 933	8.1	5.49	82.2	90.2	95.5	1.50
4	3 250	3 537	2 439	6.6	4.38	84.6	92.6	98.0	1.21
5	3 250	1 768	2 522	5.4	3.44	86.2	94.2	99.8	0.86
6	2 333	7 195	349	3.1	1.71	81.1	89.1	92.4	1.01
7	2 333	6 348	659	3.4	1.99	77.8	85.8	89.9	1.32
8	2 333	5 079	1 013	3.7	2.17	75.0	83.0	88.3	1.45
9	2 333	2 539	1 278	3.1	1.73	77.4	85.4	90.8	1.20
10	2 333	1 270	1 321	2.6	1.36	79.0	87.0	92.6	0.89
11	1 417	4 368	116	1.4	0.41	70.3	78.3	81.6	1.25
12	1 417	3 854	220	1.4	0.48	67.0	75.0	79.0	1.42
13	1 417	3 083	338	1.5	0.53	64.2	72.2	77.4	1.46
14	1 417	1 542	427	1.4	0.42	66.5	74.5	80.0	1.23
15	1 417	771	441	1.2	0.33	68.1	76.1	81.8	0.98

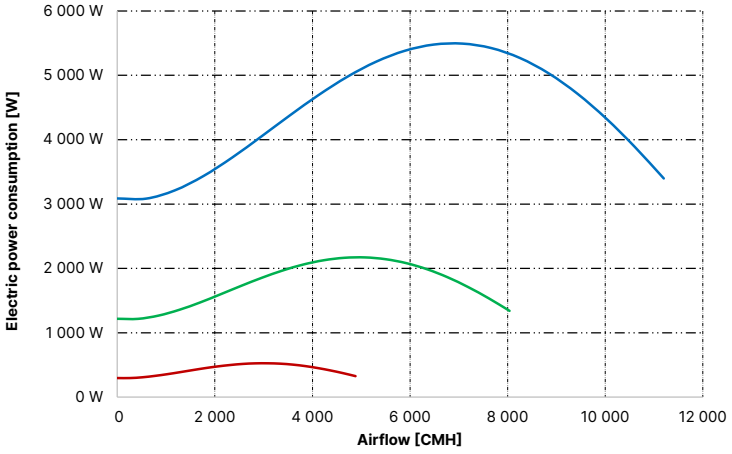
Power supply and control connections



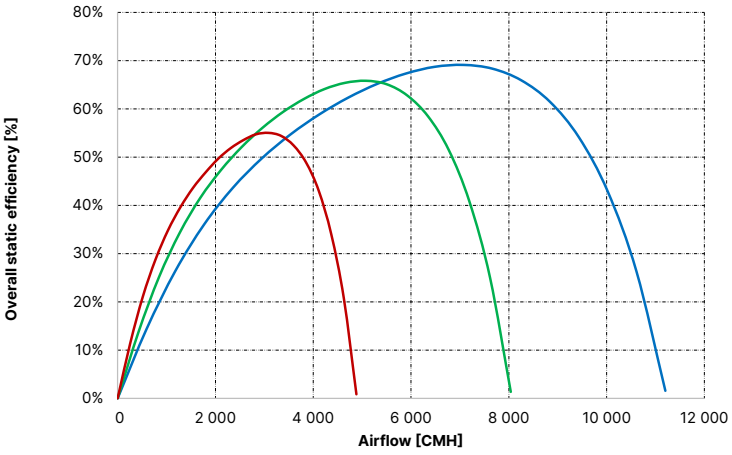
dP = f(V)



EPC = f(V)



η_{es} = f(V)



SWISS ROTORS

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/2.3-ECT-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	2.30 kW / 2.8 A
Revolutions: Min / Nominal	500 ÷ 1900 RPM
CAV K-factor	208
Temperature ranges: Storage / Operating	-30 ÷ 50 °C / -20 ÷ 40 °C
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal shaft
Weight:	37 kg

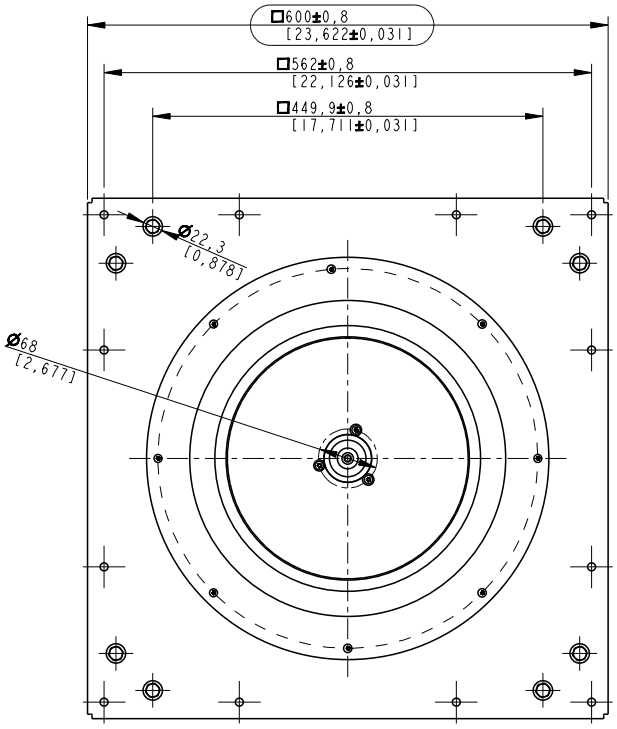
Motor

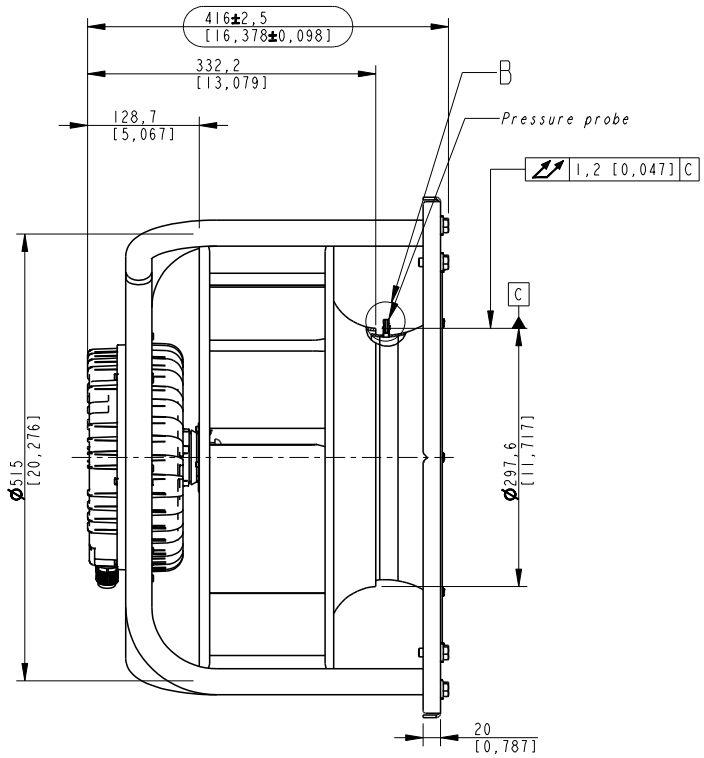
Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection. Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	77 736 h (40 °C)

Impeller

Fan Impeller Size, Blade design / No	450 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}	65.5%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption Ped	2.00 kW
9	Air flow qv	5 710 m3/h
	Pressure increase pfs	6 852 Pa
10	Speed (rpm) n	1 900
11	Specific ratio	1.01

Complience 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

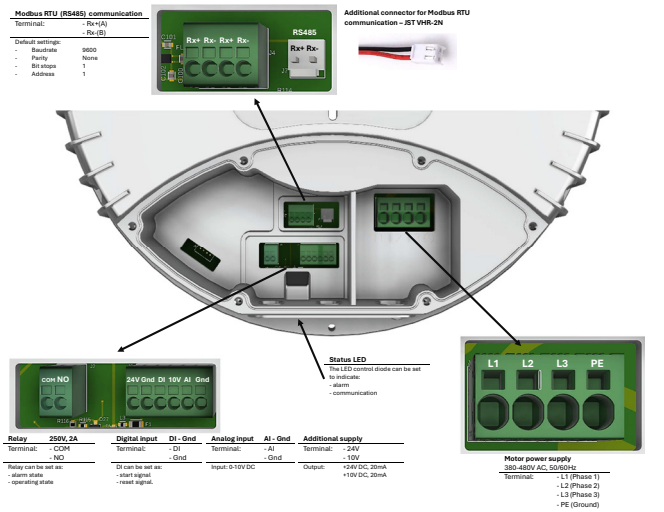
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

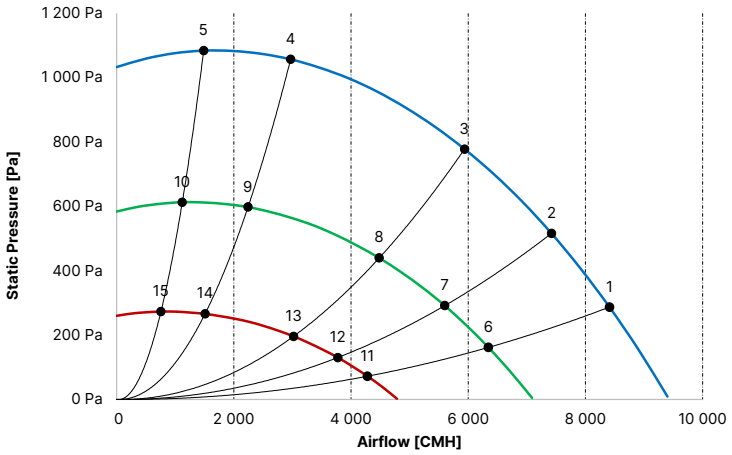
Measured Points

Point #	n RPM	V [m³/h]	dP [Pa]	I[A] [A]	EPC [kW]	L_pA_{in} dB(A)	L_wA_{in} dB(A)	L_wA_{out} dB(A)	FEI
1	1 900	8 411	287	2.5	1.69	83.9	91.9	92.3	1.02
2	1 900	7 421	516	2.9	1.94	78.5	86.5	88.7	1.27
3	1 900	5 937	778	3.1	2.09	73.4	81.4	85.7	1.37
4	1 900	2 968	1 057	2.6	1.71	75.3	83.3	88.6	1.16
5	1 900	1 484	1 084	2.0	1.28	76.8	84.8	90.6	0.89
6	1 433	6 345	162	1.2	0.73	77.8	85.8	86.2	1.21
7	1 433	5 598	292	1.4	0.84	72.3	80.3	82.6	1.41
8	1 433	4 479	440	1.4	0.91	67.3	75.3	79.6	1.47
9	1 433	2 239	598	1.2	0.74	69.2	77.2	82.4	1.26
10	1 433	1 120	613	1.0	0.55	70.7	78.7	84.5	0.99
11	967	4 279	72	0.5	0.25	69.2	77.2	77.7	1.64
12	967	3 776	130	0.6	0.28	63.8	71.8	74.1	1.70
13	967	3 020	196	0.6	0.31	58.7	66.7	71.0	1.67
14	967	1 510	266	0.5	0.25	60.7	68.7	73.9	1.42
15	967	755	273	0.4	0.19	62.2	70.2	76.0	1.19

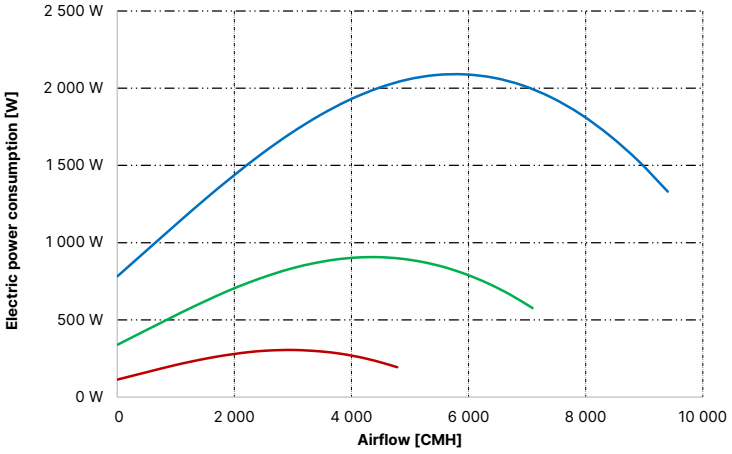
Power supply and control connections



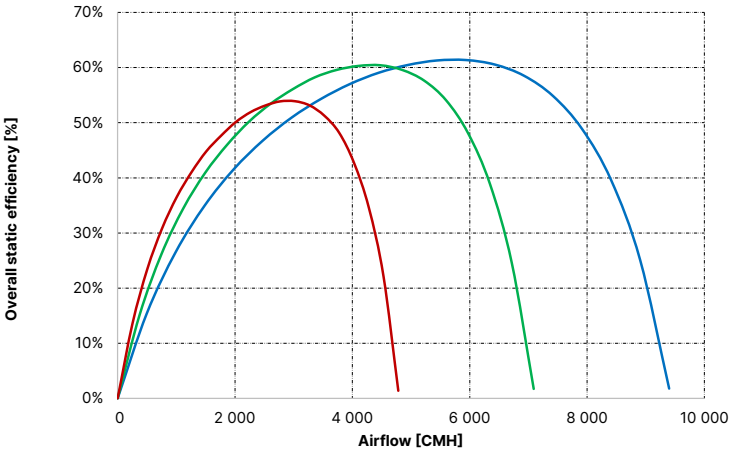
dP = f(V)



EPC = f(V)



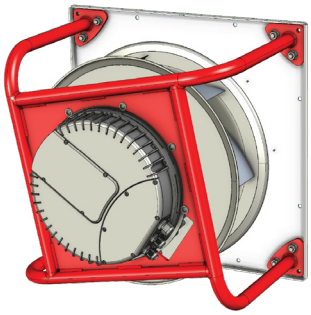
η_{es} = f(V)



SWISS ROTORS

*In the interest of continuous product improvement in the field of design, performance and reliability, Swiss Rotors Company reserves the right to make changes to this specification without prior notice.

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/5.1-ECT-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	5.10 kW / 6.3 A
Revolutions: Min / Nominal	500 ÷ 2600 RPM
CAV K-factor	203
Temperature ranges: Storage / Operating	-30 ÷ 50 °C / -20 ÷ 40 °C
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal shaft
Weight:	48 kg

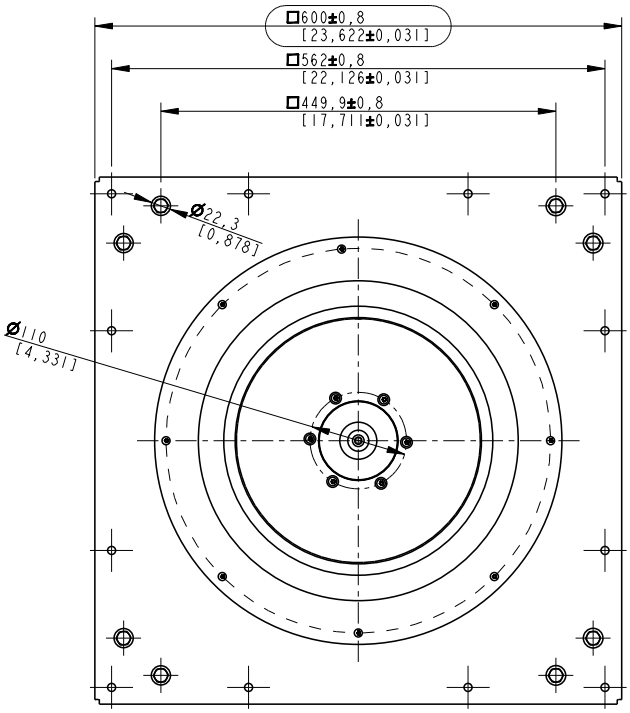
Motor

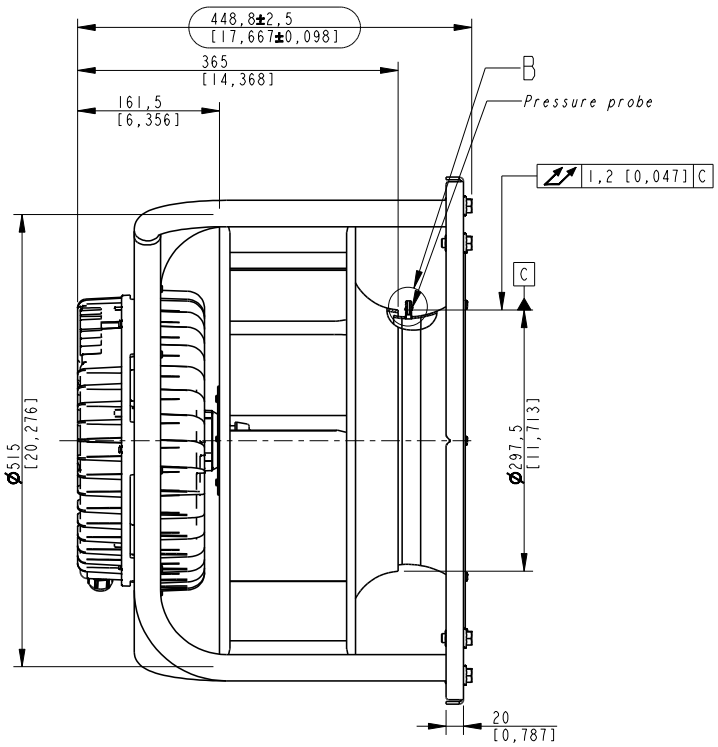
Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection. Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	65 826 h (40 °C)

Impeller

Fan Impeller Size, Blade design / No	450 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}	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 Ped	4.90 kW
9	Air flow qv	7 791 m3/h
	Pressure increase pfs	1 541 Pa
10	Speed (rpm) n	2 600
11	Specific ratio	1.01

Complience 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

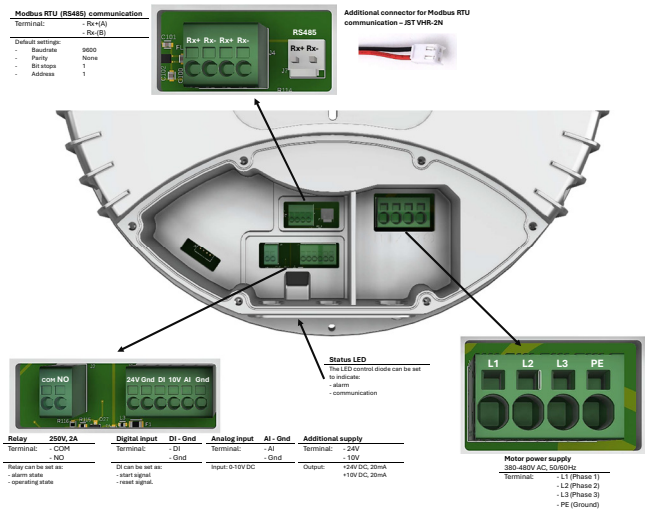
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

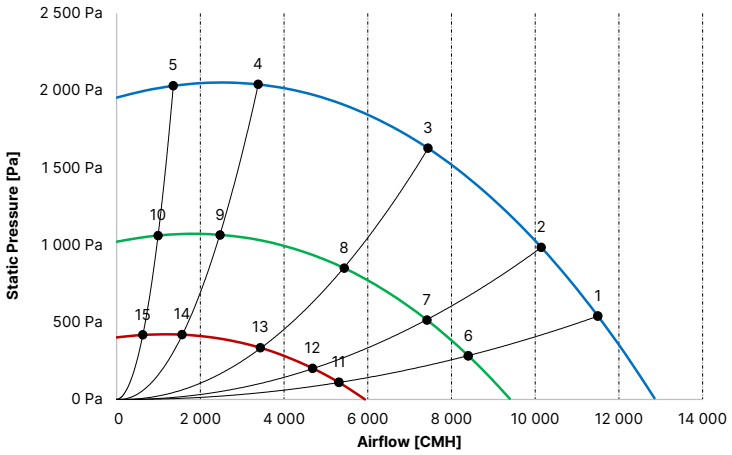
Measured Points

Point #	n RPM	V [m³/h]	dP [Pa]	I[A] [A]	EPC [kW]	L_pA_{in} dB(A)	L_wA_{in} dB(A)	L_wA_{out} dB(A)	FEI
1	2 600	11 497	540	6.1	4.14	90.7	98.7	99.1	0.96
2	2 600	10 145	985	6.9	4.69	85.2	93.2	95.5	1.30
3	2 600	7 439	1 627	7.2	4.96	78.9	86.9	91.9	1.47
4	2 600	3 382	2 040	5.7	3.83	82.8	90.8	96.2	1.11
5	2 600	1 353	2 031	4.2	2.71	83.8	91.8	97.9	0.71
6	1 900	8 402	282	2.7	1.60	83.9	91.9	92.3	1.06
7	1 900	7 413	514	3.0	1.82	78.4	86.4	88.7	1.35
8	1 900	5 437	850	3.1	1.92	72.1	80.1	85.1	1.48
9	1 900	2 471	1 065	2.5	1.48	76.0	84.0	89.4	1.15
10	1 900	988	1 061	1.9	1.05	77.0	85.0	91.0	0.78
11	1 200	5 306	111	1.1	0.45	73.9	81.9	82.3	1.34
12	1 200	4 682	202	1.2	0.51	68.4	76.4	78.8	1.51
13	1 200	3 434	335	1.3	0.54	62.2	70.2	75.1	1.55
14	1 200	1 561	420	1.1	0.42	66.0	74.0	79.4	1.24
15	1 200	624	418	0.9	0.30	67.0	75.0	81.1	0.92

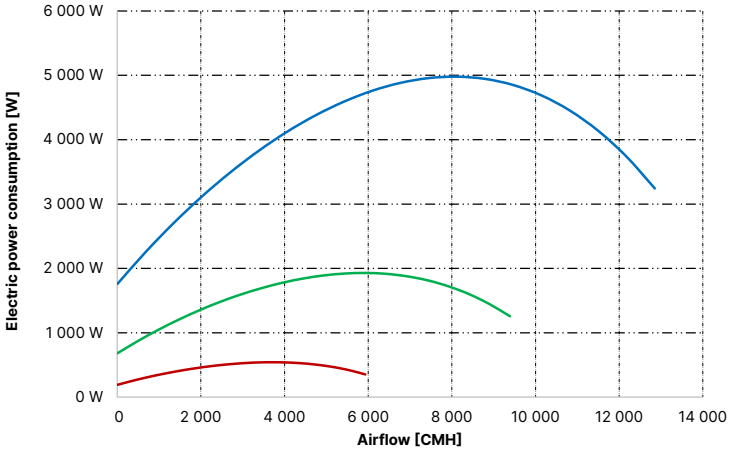
Power supply and control connections



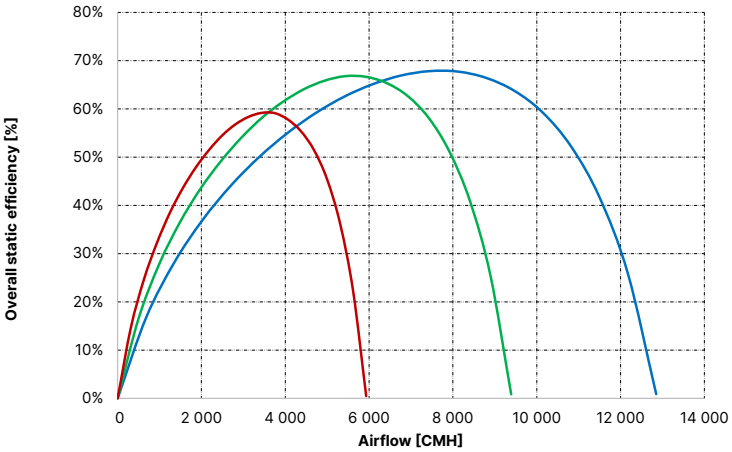
dP = f(V)



EPC = f(V)

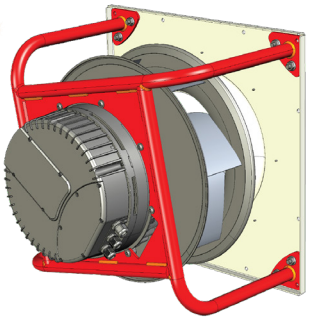


η_{es} = f(V)



SWISS ROTORS

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/8.1-ECT-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	8.10 kW / 10.6 A
Revolutions: Min / Nominal	500 ÷ 3000 RPM
CAV K-factor	209
Temperature ranges: Storage / Operating	-30 ÷ 50 °C / -20 ÷ 40 °C
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal shaft
Weight:	55 kg

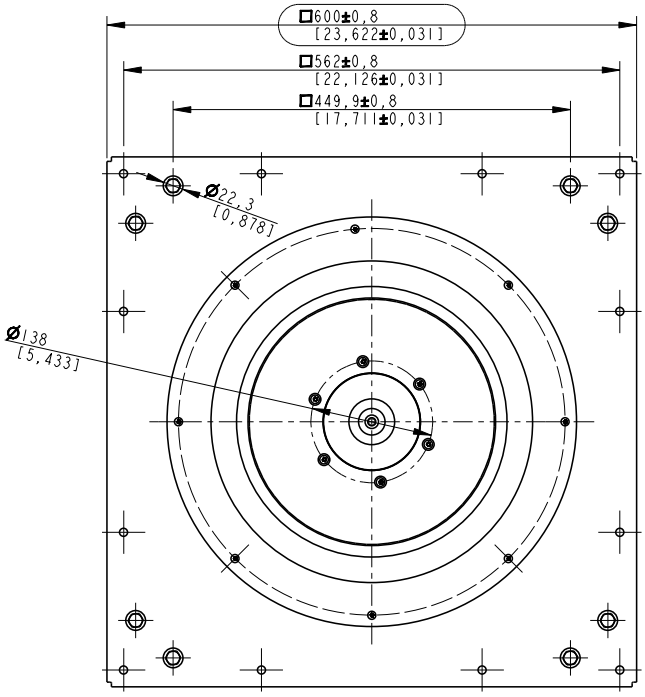
Motor

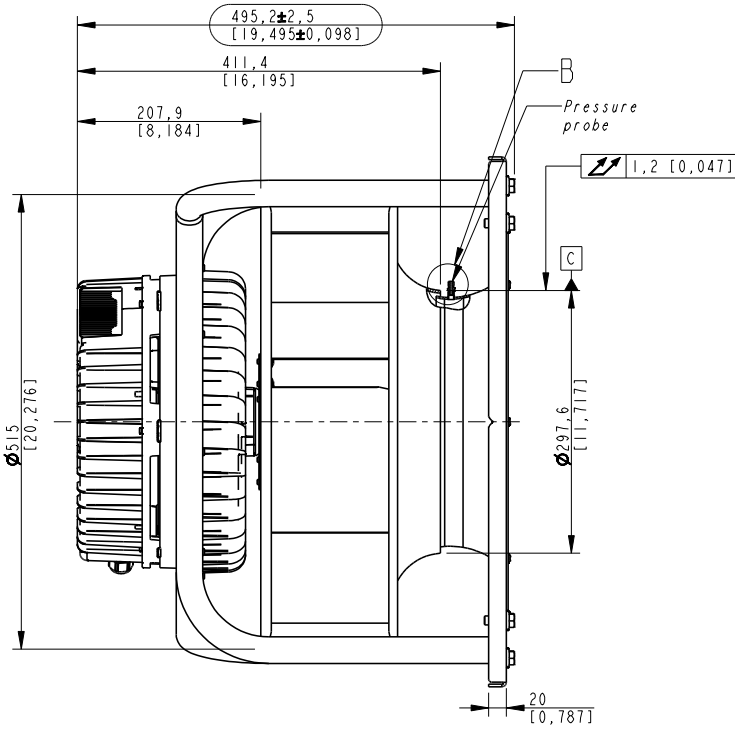
Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection. Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	67 508 h (40 °C)

Impeller

Fan Impeller Size, Blade design / No	450 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}	67.1%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption Ped	7.70 kW
9	Air flow qv	8 774 m3/h
	Pressure increase pfs	2 066 Pa
10	Speed (rpm) n	3 000
11	Specific ratio	1.01

Complience 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

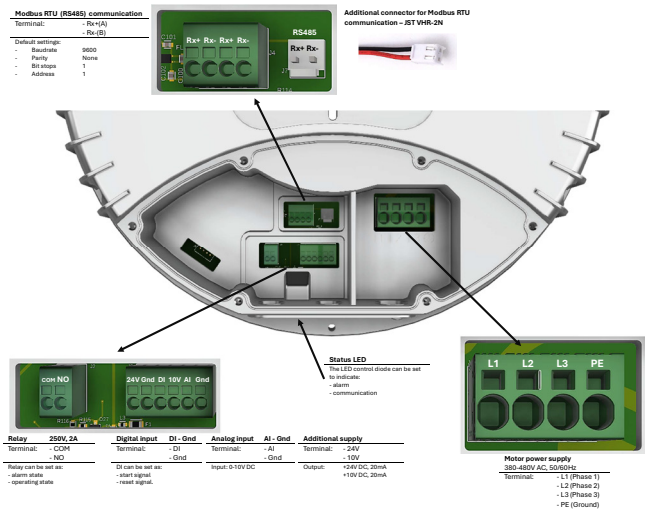
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

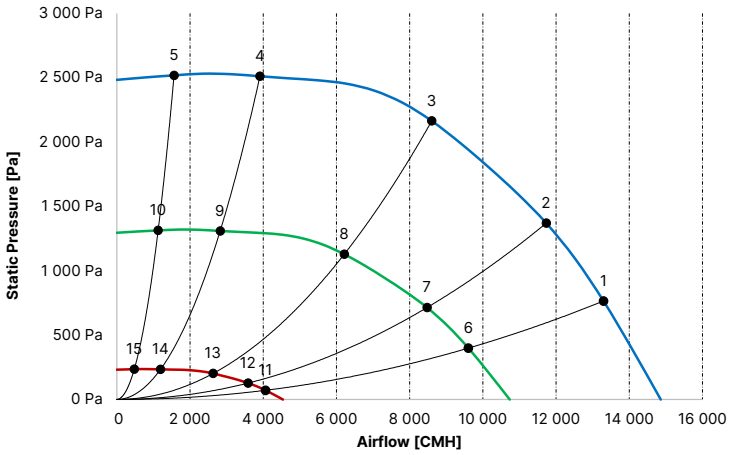
Measured Points

Point #	n RPM	V [m³/h]	dP [Pa]	I[A] [A]	EPC [kW]	L_pA_{in} dB(A)	L_wA_{in} dB(A)	L_wA_{out} dB(A)	FEI
1	3 000	13 296	765	10.0	6.49	93.9	101.9	102.3	0.97
2	3 000	11 732	1 370	11.3	7.40	88.4	96.4	98.7	1.32
3	3 000	8 603	2 164	12.0	7.91	82.1	90.1	95.0	1.43
4	3 000	3 911	2 511	9.4	6.08	85.9	93.9	99.3	0.99
5	3 000	1 564	2 518	8.0	5.06	86.9	94.9	101.0	0.53
6	2 167	9 603	399	4.3	2.43	86.8	94.8	95.2	1.05
7	2 167	8 473	714	4.7	2.78	81.3	89.3	91.6	1.35
8	2 167	6 213	1 128	5.0	2.97	75.0	83.0	87.9	1.43
9	2 167	2 824	1 309	4.0	2.28	78.9	86.9	92.2	1.02
10	2 167	1 130	1 313	3.5	1.90	79.8	87.8	93.9	0.58
11	917	4 063	71	1.2	0.25	68.1	76.1	76.5	1.51
12	917	3 585	127	1.2	0.29	62.7	70.7	72.9	1.58
13	917	2 629	202	1.3	0.31	56.3	64.3	69.2	1.49
14	917	1 195	234	1.2	0.24	60.2	68.2	73.6	1.14
15	917	478	235	1.1	0.20	61.2	69.2	75.2	0.77

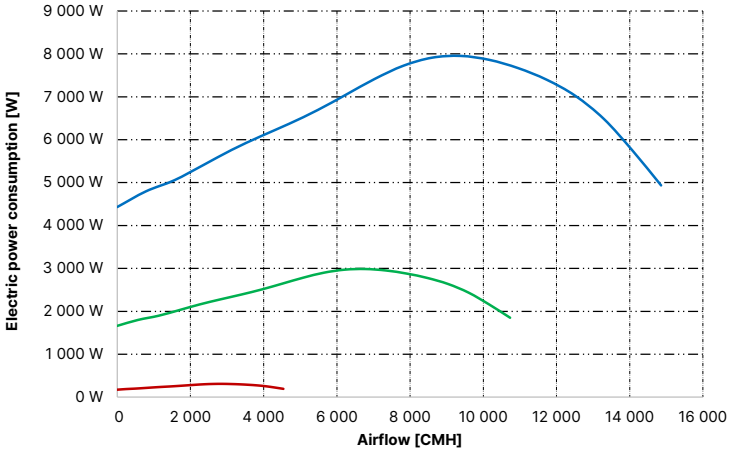
Power supply and control connections



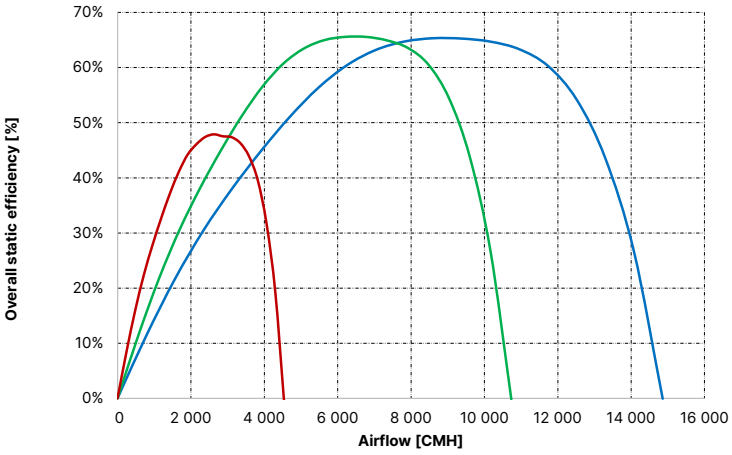
dP = f(V)



EPC = f(V)

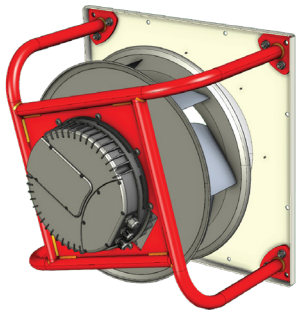


η_{es} = f(V)



SWISS ROTORS

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/5.1-ECT-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	5.10 kW / 6.9 A
Revolutions: Min / Nominal	500 ÷ 2130 RPM
CAV K-factor	250
Temperature ranges: Storage / Operating	-30 ÷ 50 °C / -20 ÷ 40 °C
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal shaft
Weight:	54 kg

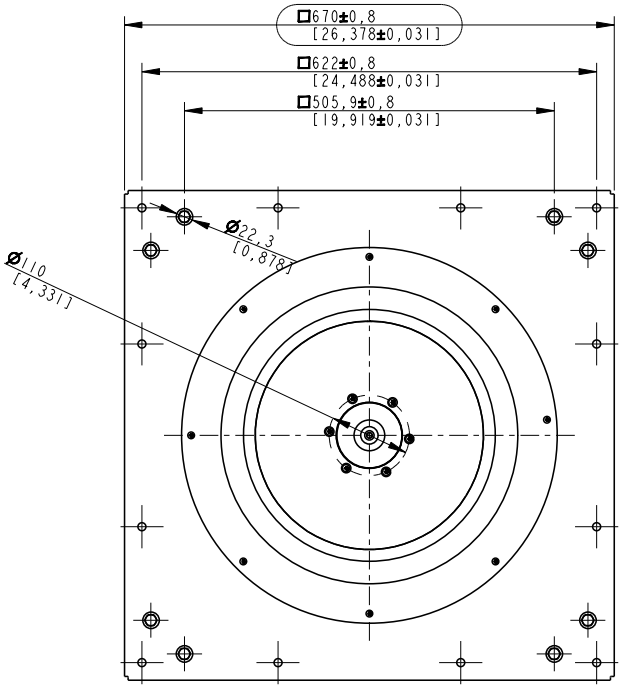
Motor

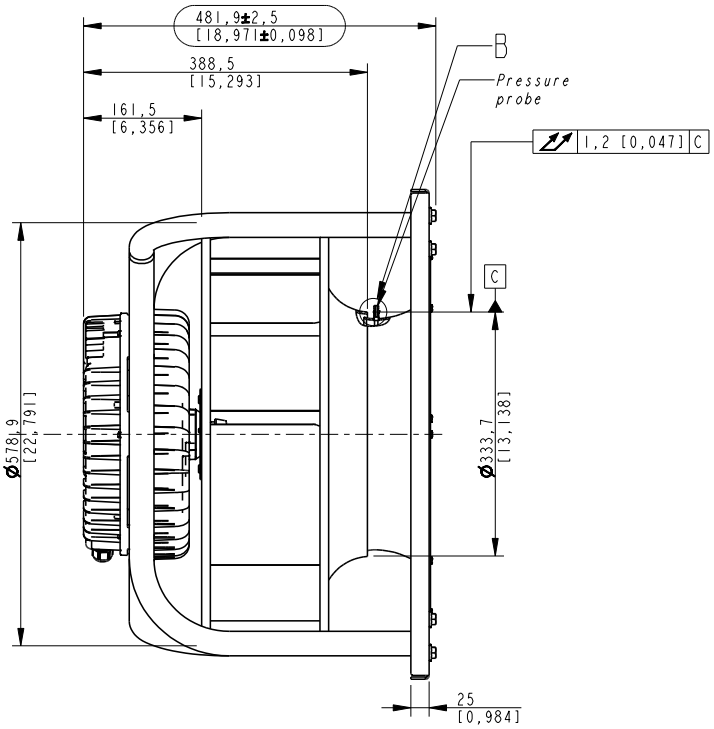
Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection. Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	65 826 h (40 °C)

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}	73.0%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption Ped	5.00 kW
9	Air flow qv	9 801 m3/h
	Pressure increase pfs	1 276 Pa
10	Speed (rpm) n	2 130
11	Specific ratio	1.01

Complience 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

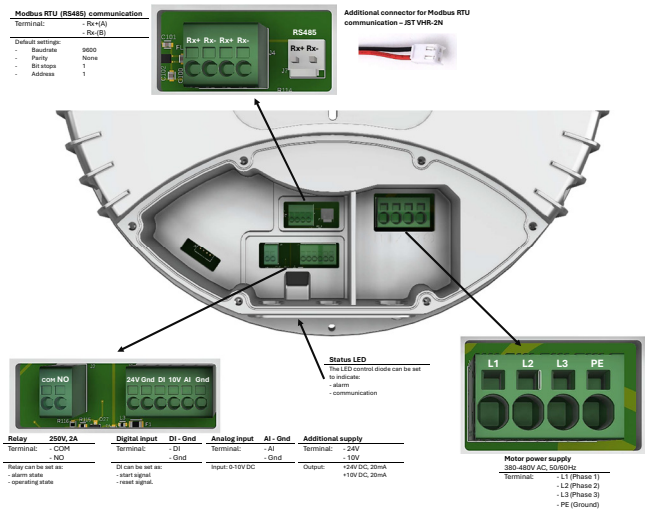
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

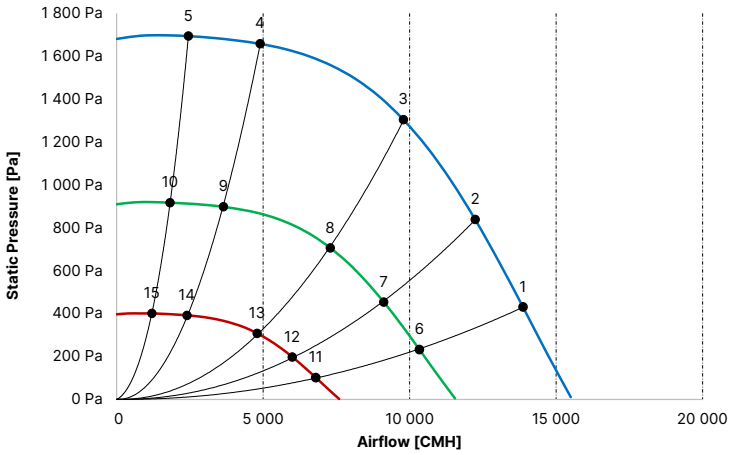
Measured Points

Point #	n RPM	V [m³/h]	dP [Pa]	I[A] [A]	EPC [kW]	L_pA_{in} dB(A)	L_wA_{in} dB(A)	L_wA_{out} dB(A)	FEI
1	2 130	13 868	431	6.3	3.97	91.4	99.4	99.9	0.99
2	2 130	12 237	839	7.3	4.60	85.5	93.5	95.2	1.37
3	2 130	9 789	1 304	7.9	5.05	78.0	86.0	90.4	1.53
4	2 130	4 895	1 658	6.6	4.11	79.1	87.1	92.4	1.19
5	2 130	2 447	1 694	5.0	3.07	81.3	89.3	95.2	0.86
6	1 587	10 331	233	3.0	1.66	85.0	93.0	93.5	1.09
7	1 587	9 115	454	3.4	1.92	79.1	87.1	88.9	1.41
8	1 587	7 292	706	3.6	2.11	71.6	79.6	84.0	1.51
9	1 587	3 646	898	3.1	1.72	72.7	80.7	86.1	1.20
10	1 587	1 823	917	2.4	1.28	74.9	82.9	88.8	0.89
11	1 043	6 793	102	1.3	0.49	75.9	83.9	84.4	1.49
12	1 043	5 994	198	1.4	0.57	70.0	78.0	79.8	1.69
13	1 043	4 795	308	1.5	0.62	62.5	70.5	74.9	1.71
14	1 043	2 398	392	1.3	0.51	63.6	71.6	76.9	1.37
15	1 043	1 199	401	1.1	0.38	65.8	73.8	79.7	1.07

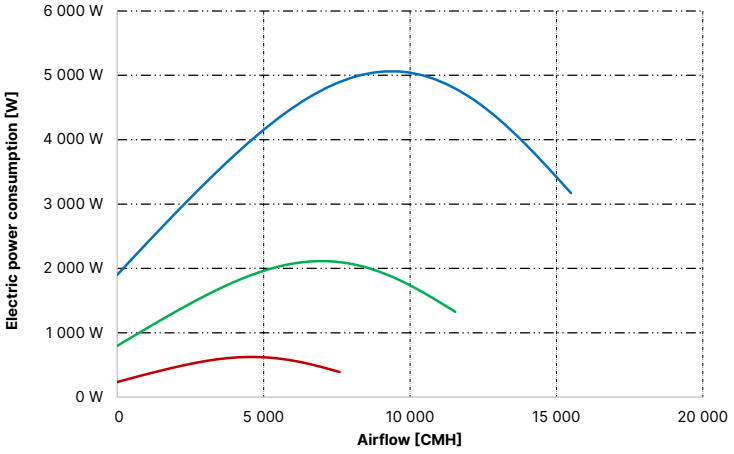
Power supply and control connections



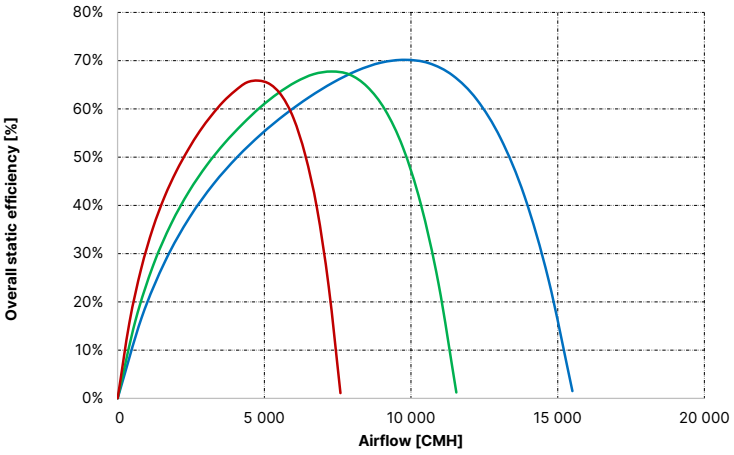
dP = f(V)



EPC = f(V)

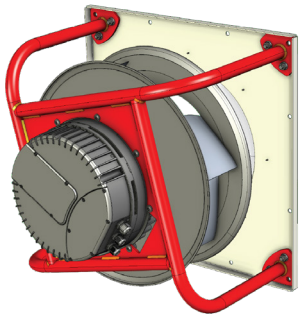


η_{es} = f(V)



SWISS ROTORS

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/7.8-ECT-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	7.80 kW / 9.8 A
Revolutions: Min / Nominal	500 ÷ 2460 RPM
CAV K-factor	250
Temperature ranges: Storage / Operating	-30 ÷ 50 °C / -20 ÷ 40 °C
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal shaft
Weight:	61 kg

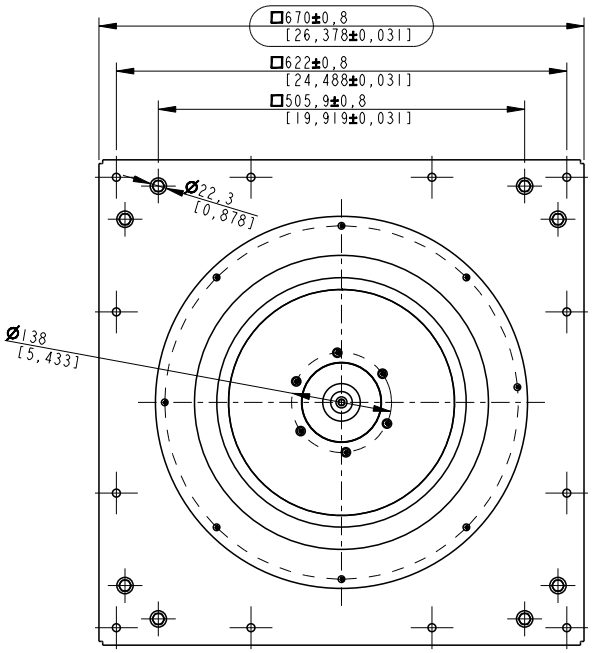
Motor

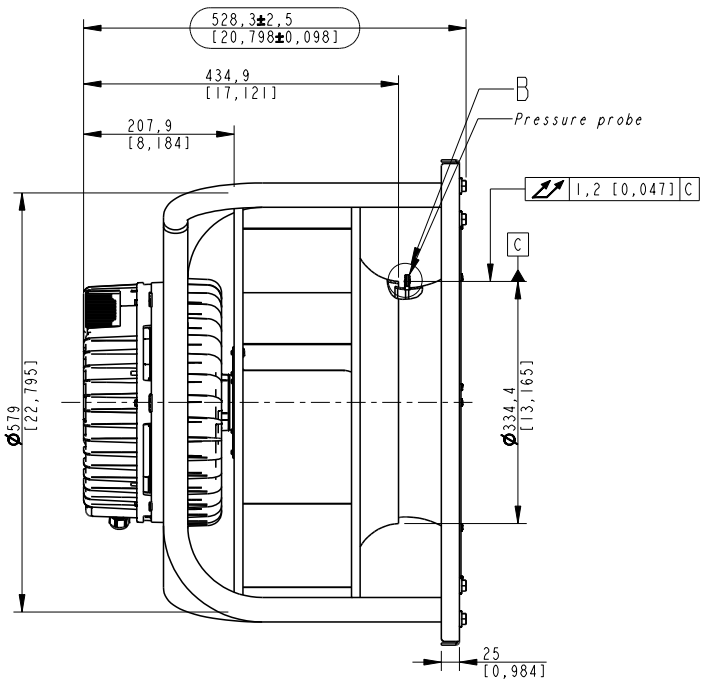
Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection. Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	67 508 h (40 °C)

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}	72.1%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption Ped	7.50 kW
9	Air flow qv	10 891 m3/h
	Pressure increase pfs	1 720 Pa
10	Speed (rpm) n	2 460
11	Specific ratio	1.01

Complience 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

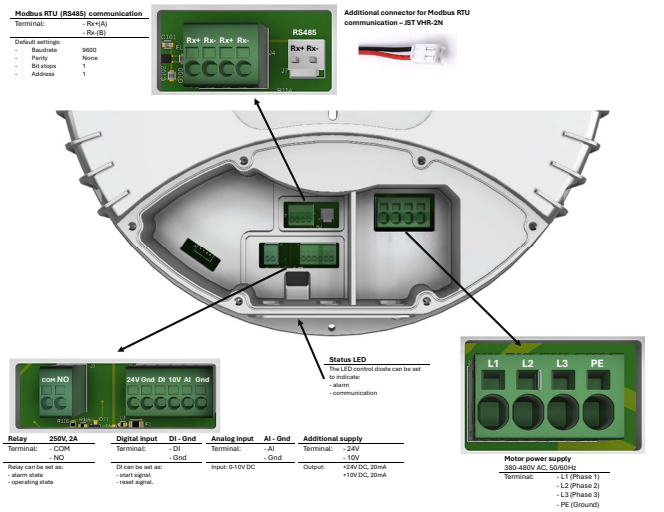
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

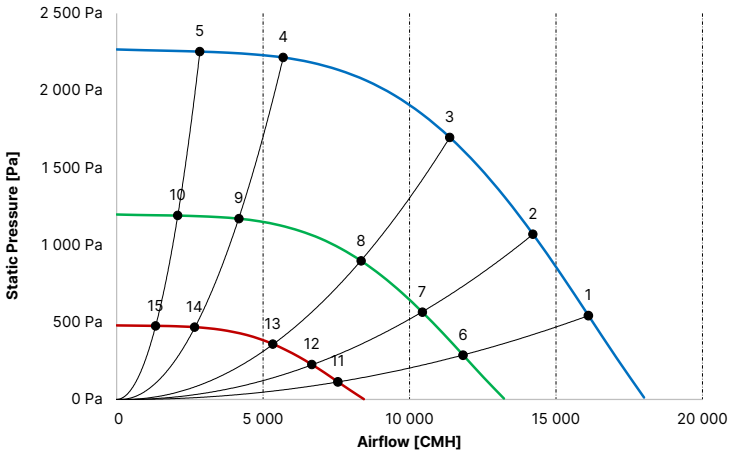
Measured Points

Point #	n RPM	V [m³/h]	dP [Pa]	I[A] [A]	EPC [kW]	L_pA_{in} dB(A)	L_wA_{in} dB(A)	L_wA_{out} dB(A)	FEI
1	2 460	16 105	543	9.0	5.97	94.7	102.7	103.2	0.94
2	2 460	14 211	1 070	10.4	6.97	88.9	96.9	98.5	1.34
3	2 460	11 368	1 697	11.3	7.64	81.2	89.2	93.6	1.54
4	2 460	5 684	2 214	9.3	6.17	82.2	90.2	95.5	1.23
5	2 460	2 842	2 252	7.1	4.59	84.4	92.4	98.3	0.87
6	1 807	11 828	287	4.0	2.37	88.0	96.0	96.5	1.02
7	1 807	10 436	565	4.6	2.76	82.2	90.2	91.8	1.35
8	1 807	8 349	897	4.9	3.03	74.5	82.5	86.9	1.51
9	1 807	4 175	1 171	4.1	2.45	75.5	83.5	88.8	1.22
10	1 807	2 087	1 191	3.3	1.82	77.7	85.7	91.6	0.90
11	1 153	7 551	114	1.7	0.69	78.3	86.3	86.7	1.24
12	1 153	6 662	226	1.9	0.81	72.4	80.4	82.1	1.44
13	1 153	5 330	359	2.0	0.88	64.8	72.8	77.2	1.50
14	1 153	2 665	468	1.7	0.71	65.8	73.8	79.1	1.23
15	1 153	1 332	476	1.5	0.53	67.9	75.9	81.8	0.95

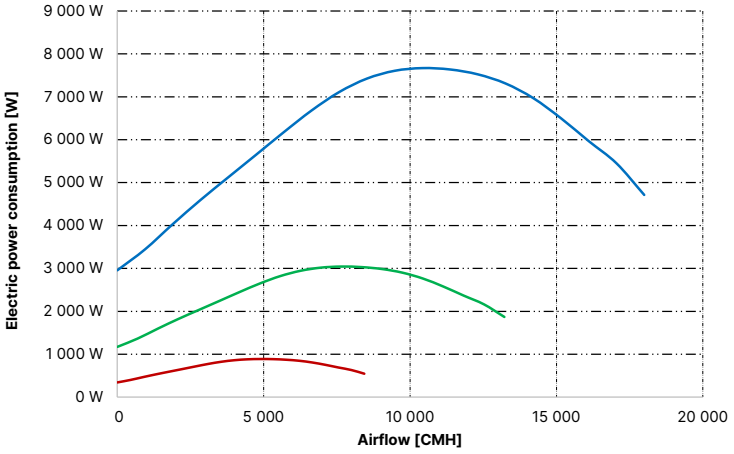
Power supply and control connections



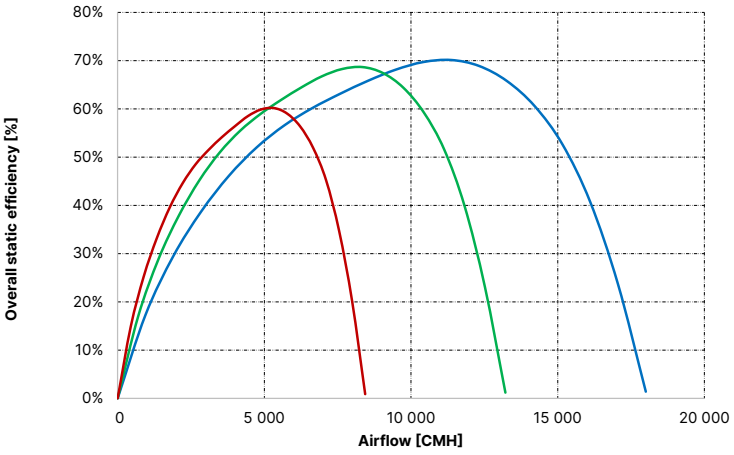
dP = f(V)



EPC = f(V)

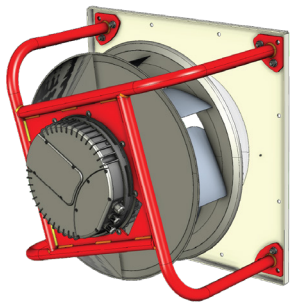


η_{es} = f(V)



SWISS ROTORS

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/5.1-ECT-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	5.10 kW / 5.7 A
Revolutions: Min / Nominal	500 ÷ 1700 RPM
CAV K-factor	326
Temperature ranges: Storage / Operating	-30 ÷ 50 °C / -20 ÷ 40 °C
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal shaft
Weight:	59 kg

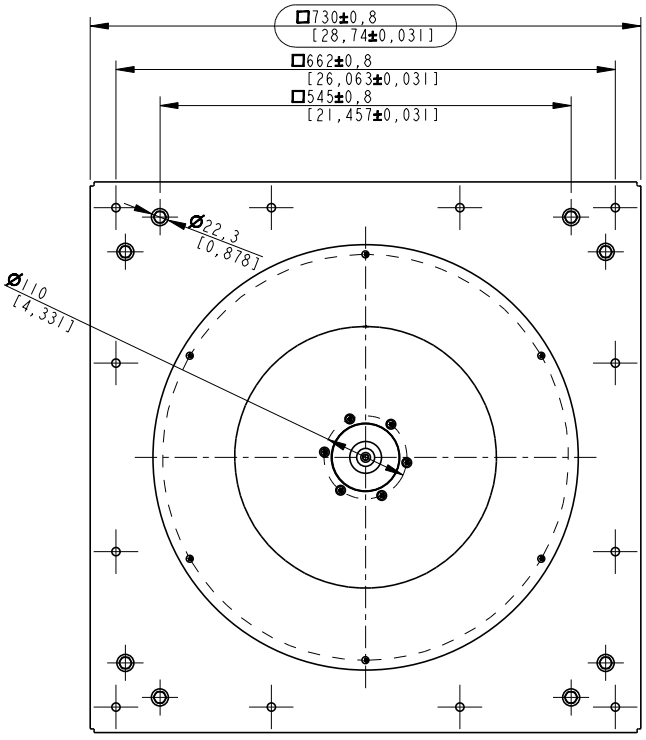
Motor

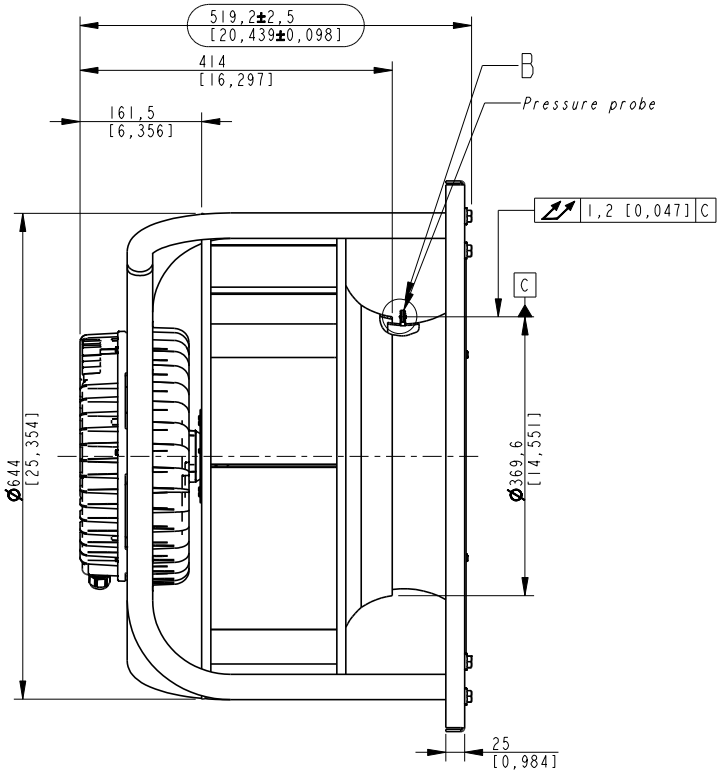
Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection. Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	65 826 h (40 °C)

Impeller

Fan Impeller Size, Blade design / No	560 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}	72.2%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
9	Power consumption Ped	4.30 kW
	Air flow qv	10 754 m3/h
	Pressure increase pfs	992 Pa
10	Speed (rpm) n	1 700
11	Specific ratio	1.01

Complience 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

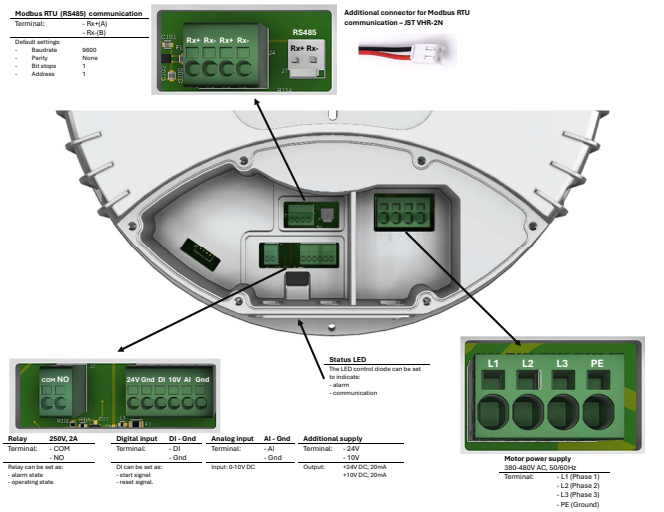
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

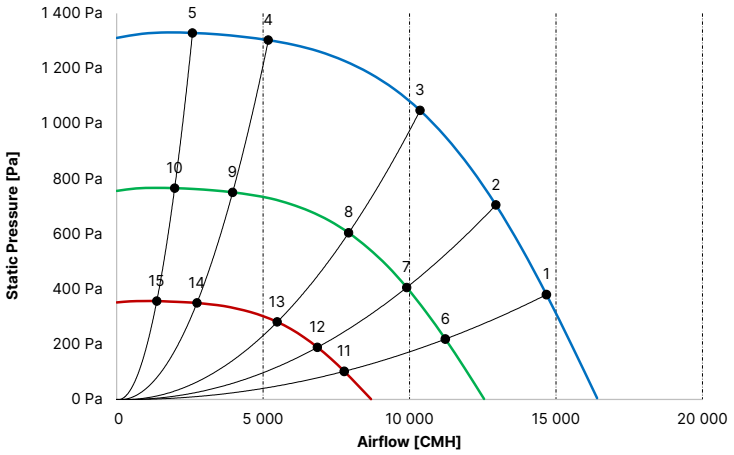
Measured Points

Point #	n RPM	V [m³/h]	dP [Pa]	I[A] [A]	EPC [kW]	L_pA_{in} dB(A)	L_wA_{in} dB(A)	L_wA_{out} dB(A)	FEI
1	1 700	14 674	380	5.4	3.47	87.5	95.5	96.4	1.08
2	1 700	12 947	705	6.2	4.06	81.7	89.7	92.3	1.40
3	1 700	10 358	1 048	6.6	4.37	75.2	83.2	88.1	1.51
4	1 700	5 179	1 303	5.4	3.47	78.2	86.2	91.5	1.18
5	1 700	2 589	1 329	4.2	2.58	79.8	87.8	93.8	0.85
6	1 300	11 221	219	2.8	1.57	81.7	89.7	90.6	1.20
7	1 300	9 901	406	3.1	1.84	75.9	83.9	86.5	1.45
8	1 300	7 921	604	3.3	1.98	69.3	77.3	82.3	1.52
9	1 300	3 960	751	2.8	1.57	72.4	80.4	85.7	1.20
10	1 300	1 980	766	2.2	1.17	74.0	82.0	88.0	0.89
11	900	7 768	102	1.3	0.53	73.7	81.7	82.6	1.56
12	900	6 854	189	1.5	0.62	67.9	75.9	78.5	1.70
13	900	5 484	281	1.5	0.67	61.4	69.4	74.3	1.69
14	900	2 742	350	1.3	0.53	64.4	72.4	77.7	1.34
15	900	1 371	357	1.1	0.40	66.0	74.0	80.0	1.04

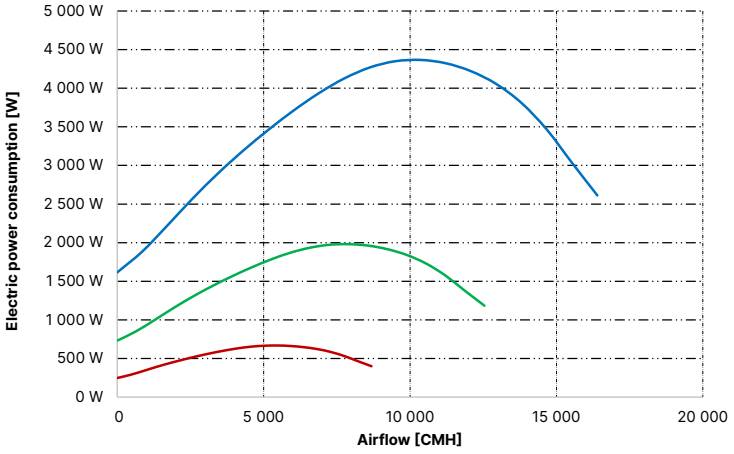
Power supply and control connections



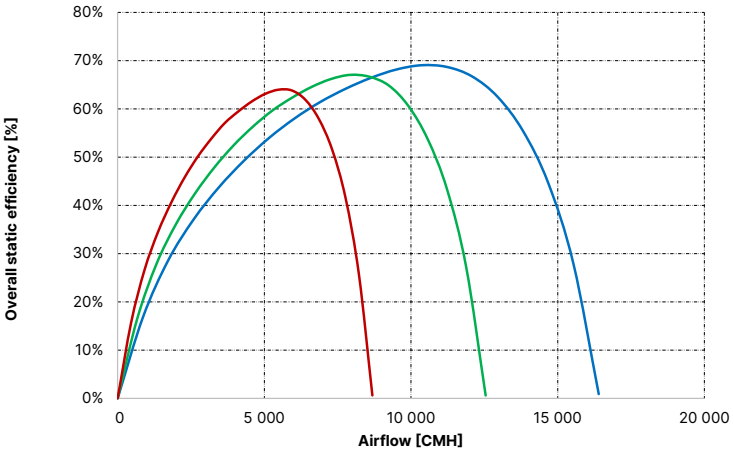
dP = f(V)



EPC = f(V)

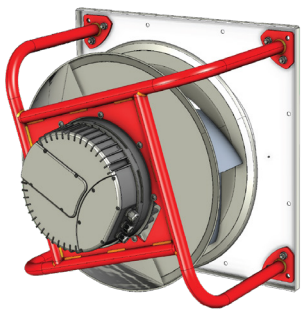


η_{es} = f(V)



SWISS ROTORS

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/7.6-ECT-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	7.60 kW / 10.0 A
Revolutions: Min / Nominal	500 ÷ 2040 RPM
CAV K-factor	326
Temperature ranges: Storage / Operating	-30 ÷ 50 °C / -20 ÷ 40 °C
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal shaft
Weight:	71 kg

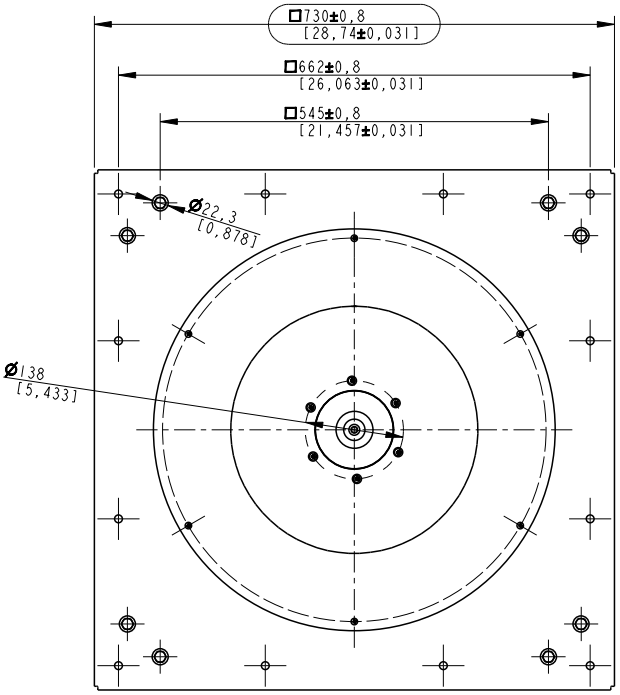
Motor

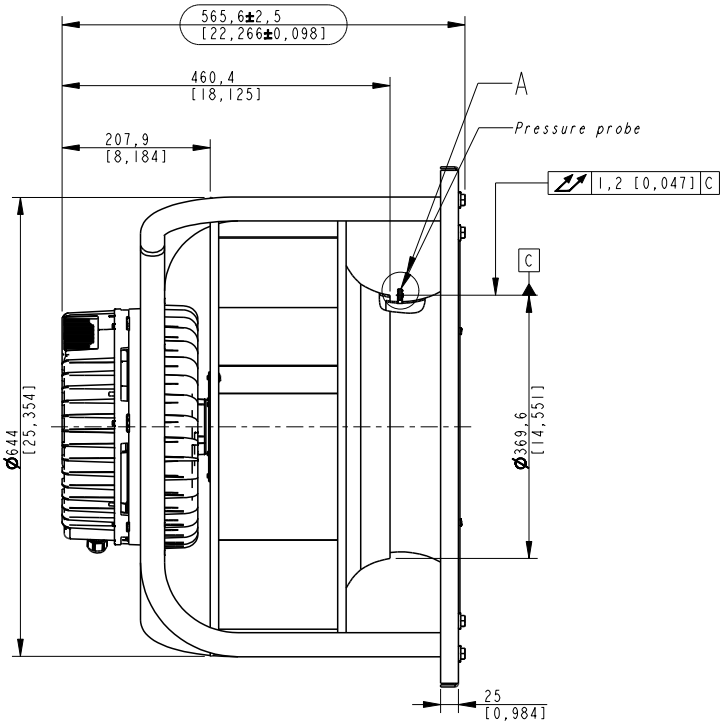
Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection. Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	67 508 h (40 °C)

Impeller

Fan Impeller Size, Blade design / No	560 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}	74.7%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption Ped	7.20 kW
9	Air flow qv	12 024 m3/h
	Pressure increase pfs	1 499 Pa
10	Speed (rpm) n	1 500
11	Specific ratio	1.01

Complience 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

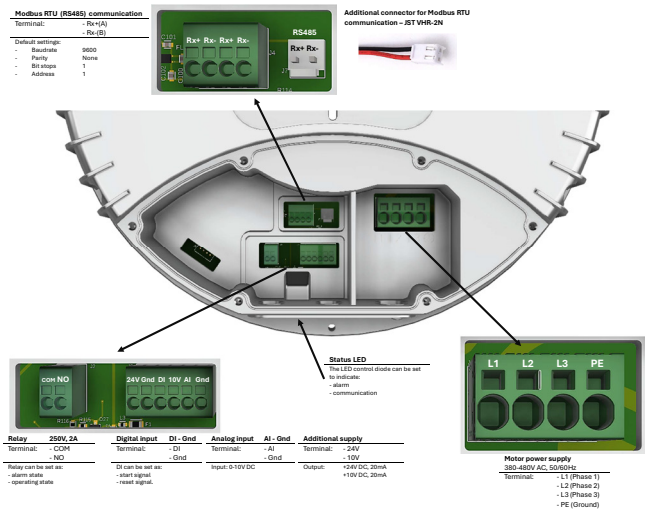
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10	80

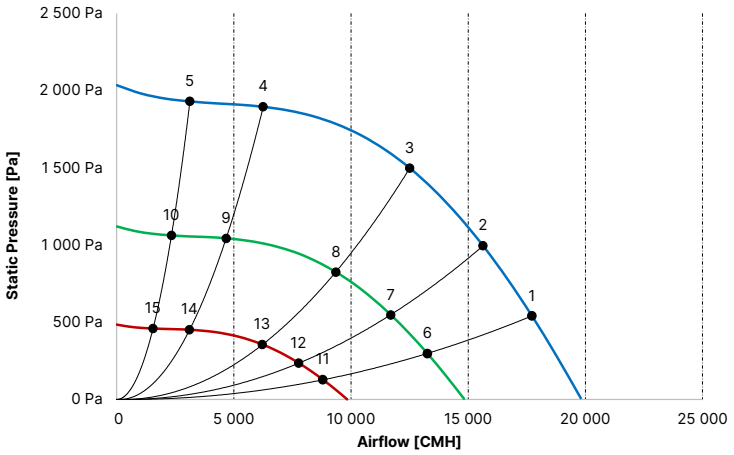
Measured Points

Point #	n RPM	V [m³/h]	dP [Pa]	I[A] [A]	EPC [kW]	L_pA_{in} dB(A)	L_wA_{in} dB(A)	L_wA_{out} dB(A)	FEI
1	2 040	17 716	541	9.1	5.89	91.8	99.8	100.6	1.05
2	2 040	15 632	995	10.6	6.90	85.9	93.9	96.4	1.39
3	2 040	12 505	1 498	11.5	7.49	79.3	87.3	92.2	1.53
4	2 040	6 253	1 895	9.1	5.89	82.1	90.1	95.4	1.21
5	2 040	3 126	1 930	7.0	4.43	83.8	91.8	97.7	0.84
6	1 527	13 258	297	4.1	2.42	85.5	93.5	94.3	1.15
7	1 527	11 698	547	4.7	2.84	79.6	87.6	90.1	1.43
8	1 527	9 359	824	5.0	3.08	73.0	81.0	85.9	1.53
9	1 527	4 679	1 043	4.1	2.43	75.8	83.8	89.1	1.23
10	1 527	2 340	1 062	3.2	1.82	77.5	85.5	91.5	0.89
11	1 013	8 800	128	1.6	0.74	76.6	84.6	85.4	1.43
12	1 013	7 765	236	1.8	0.86	70.8	78.8	81.2	1.61
13	1 013	6 212	356	1.9	0.94	64.1	72.1	77.0	1.63
14	1 013	3 106	451	1.6	0.74	66.9	74.9	80.2	1.32
15	1 013	1 553	459	1.3	0.55	68.6	76.6	82.5	1.00

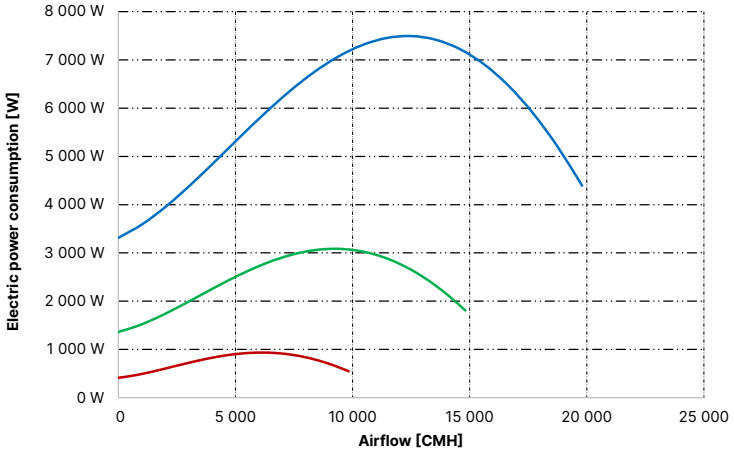
Power supply and control connections



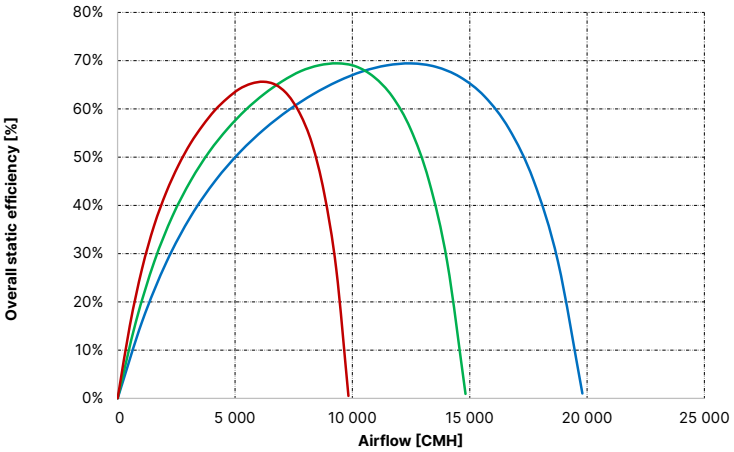
dP = f(V)



EPC = f(V)

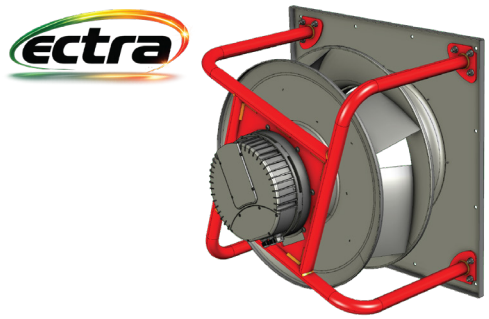


η_{es} = f(V)



SWISS ROTORS

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/6.5-ECT-A
Rated Voltage	3×380-480 VAC / 50-60 Hz
Nominal Input Power / Rated Current	6.50 kW / 8.9 A
Revolutions: Min / Nominal	500 ÷ 1500 RPM
CAV K-factor	500
Temperature ranges: Storage / Operating	-30 ÷ 50 °C / -20 ÷ 40 °C
Front plate / Bracket material*	Magnelis / Powder coated steel
Installation position	Horizontal shaft
Weight:	71 kg

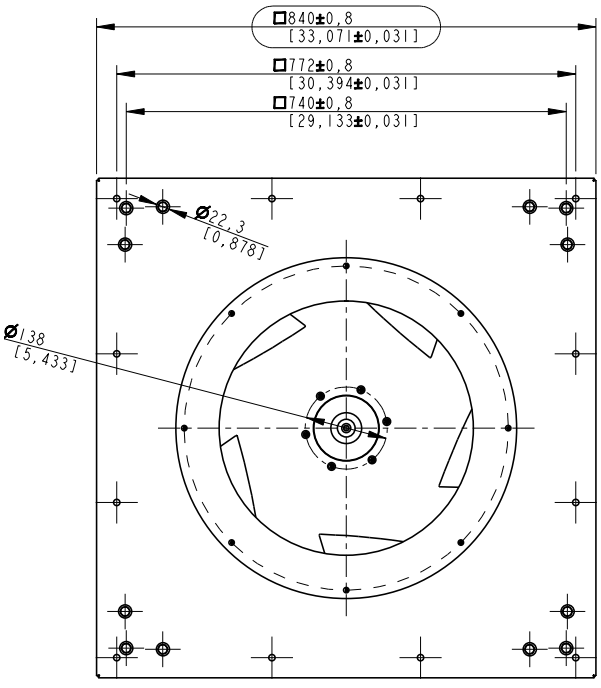
Motor

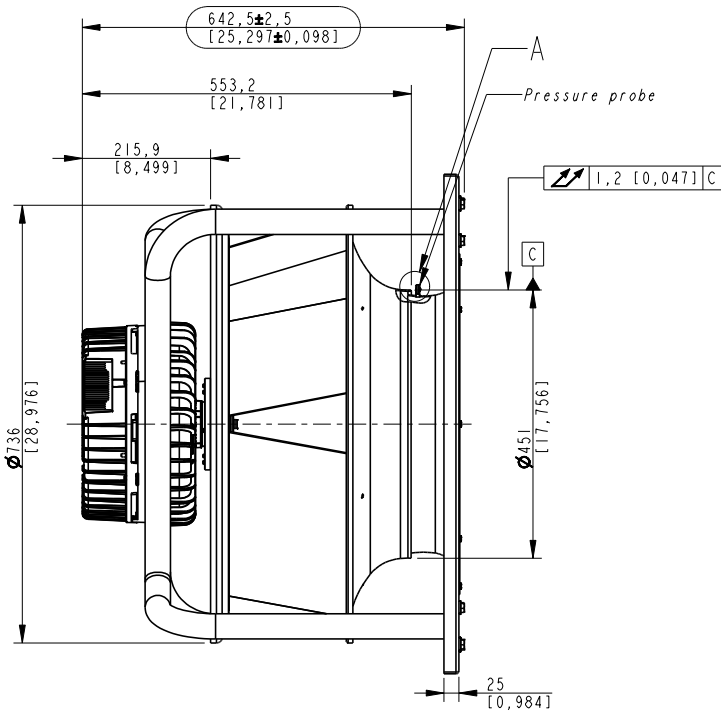
Type / Efficiency Class	Electronically Comutated, Brushless DC / IE4
Housing / Protection. Degree	Die-cast aluminum / IP 54
Speed control	0~10VDC / Modbus RTU
Windings insulation class	F
Overload protection	Inbuilt thermal limit
Bearings	Ball type, Maintenance Free, Permanently Lubricated
Bearings service life L10	65 826 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) 327/2011 Requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

1	Overall efficiency η_{es}	74.7%
2	Measurement category	A
3	Efficiency Category	Static
4	Efficiency grade N: Actual / Req. 2015	61
5	Variable speed drive	Yes
	Power consumption Ped	5.70 kW
9	Air flow qv	12 588 m3/h
	Pressure increase pfs	1 181 Pa
10	Speed (rpm) n	1 500
11	Specific ratio	1.01

Complience 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

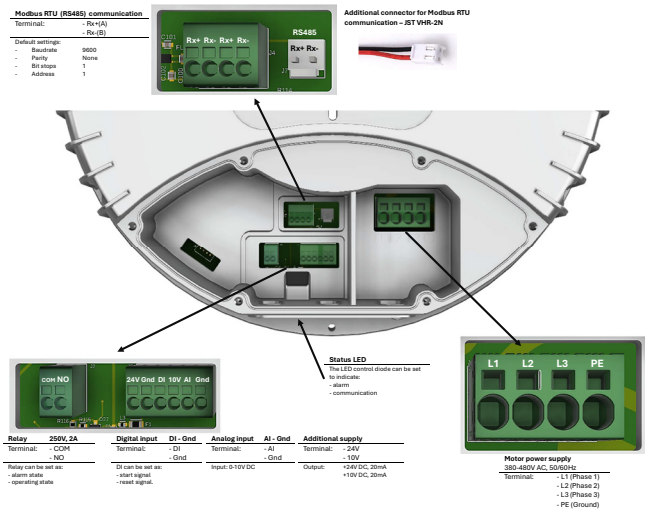
AMCA Fan Efficiency Grade

Fan Efficiency Grade (FEG), AMCA 205-10 80

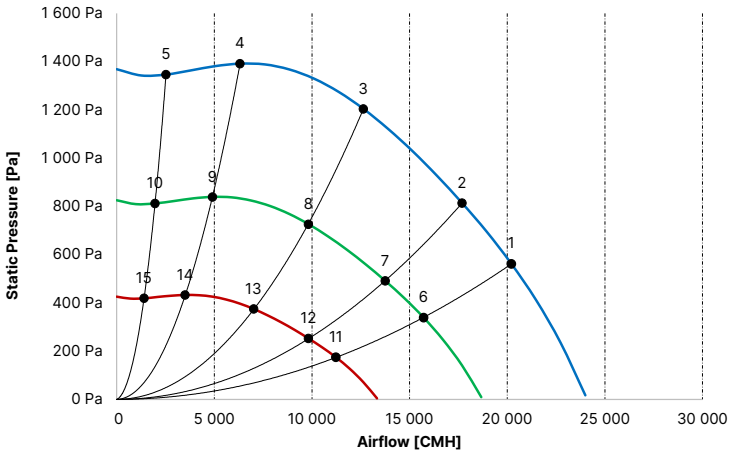
Measured Points

Point #	n RPM	V [m³/h]	dP [Pa]	I[A] [A]	EPC [kW]	L_pA_{in} dB(A)	L_wA_{in} dB(A)	L_wA_{out} dB(A)	FEI
1	1 500	20 211	562	9.1	5.42	81.6	89.6	94.3	1.35
2	1 500	17 684	814	10.0	5.99	78.1	86.1	91.8	1.50
3	1 500	12 632	1 204	9.7	5.85	75.9	83.9	91.9	1.59
4	1 500	6 316	1 391	7.8	4.60	81.8	89.8	94.5	1.15
5	1 500	2 526	1 346	6.5	3.83	84.6	92.6	98.1	0.57
6	1 167	15 719	339	4.6	2.57	76.2	84.2	88.8	1.42
7	1 167	13 754	491	5.0	2.84	72.6	80.6	86.4	1.54
8	1 167	9 825	726	4.9	2.78	70.5	78.5	86.4	1.59
9	1 167	4 912	839	4.0	2.18	76.4	84.4	89.1	1.17
10	1 167	1 965	812	3.4	1.81	79.1	87.1	92.6	0.60
11	667	9 544	82	1.3	0.48	65.6	73.6	78.1	1.88
12	667	8 421	139	1.4	0.56	62.4	70.4	75.2	1.89
13	667	6 175	225	1.5	0.58	58.1	66.1	73.4	1.84
14	667	2 807	279	1.2	0.45	64.2	72.2	76.9	1.37
15	667	1 123	270	1.1	0.37	67.0	75.0	80.5	0.77

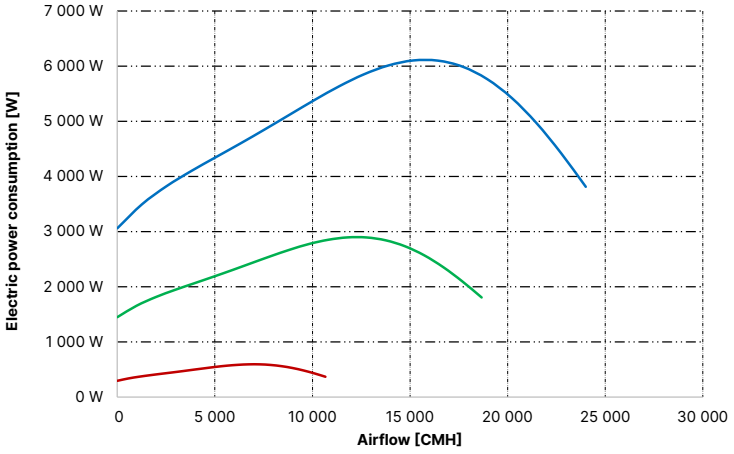
Power supply and control connections



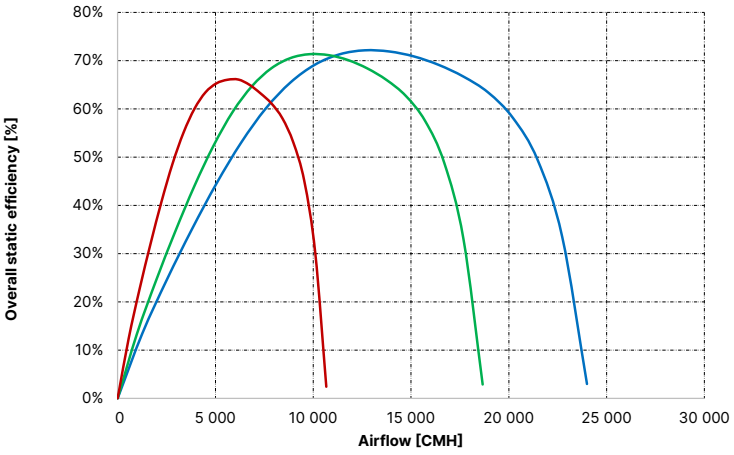
dP = f(V)



EPC = f(V)

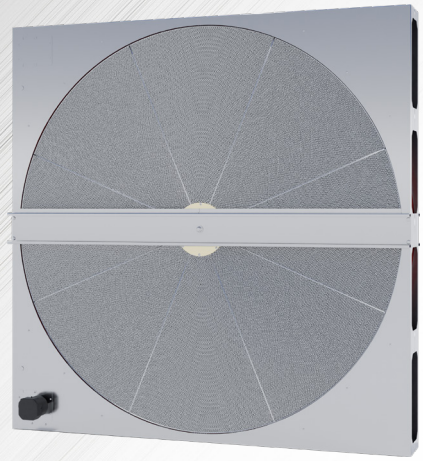


η_{es} = f(V)

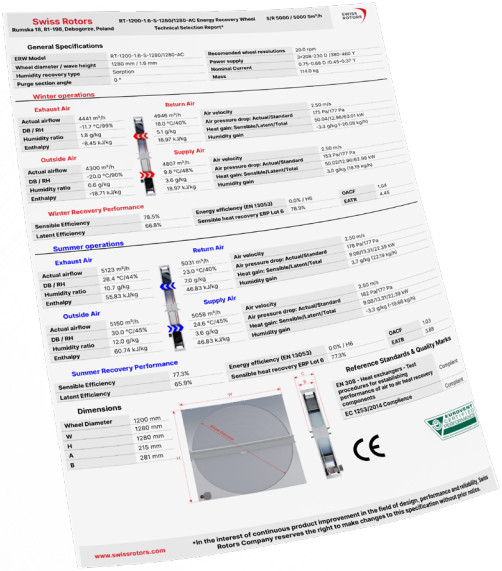


SWISS ROTORS

Explore our HVAC products...



...and select them with our Online Selection Tool



USA

1075 Highway 124
Building 300, Suite 300, Hoschton, GA

+1 470 266 6546

POLAND

Rumska 18
81-198 Dębogórze

+48 665 057 577

SWISS ROTORS

www.swissrotors.com