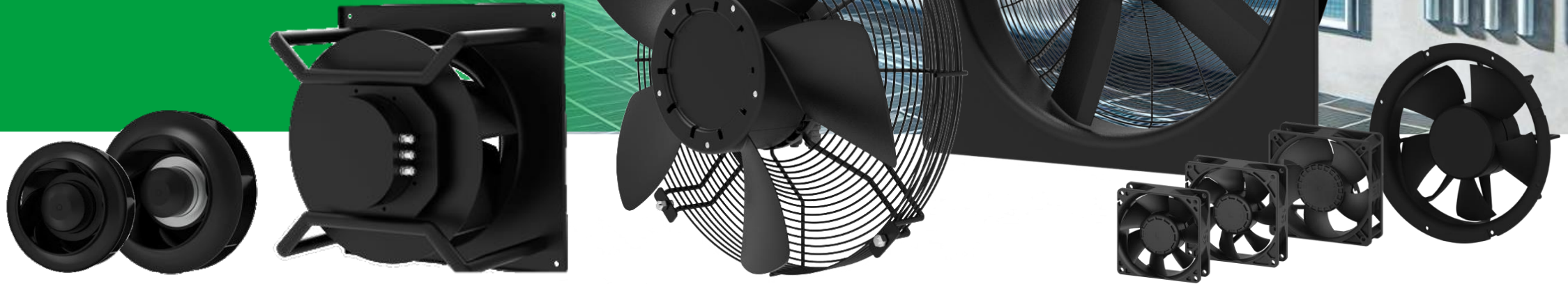


SUNON EC Axial Fans EC Centrifugal Fans



SUNON®

SUNON Total EC Fan Series

Combine Efficiency and Power Saving to Sustain the Earth



MagLev EC Axial Fans



60x25

70x25

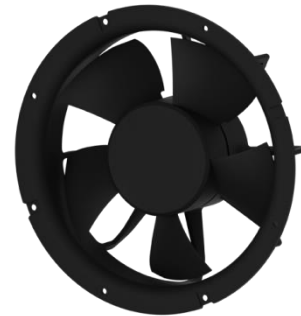
80x25

92x25

ECO EC Axial Fans



120x38



250x78

GREEN EC Fans **NEW**



EC 254 – EC 910



EC 133 – EC 630

SUNON Axial & Centrifugal EC Fan Series

Applications & Key Features

Green-friendly
EC Technology

High Efficiency

Smart Speed
Controls

Explosion-proofing
Water-proofing



Commercial
Refrigeration



HVAC



EV Charging
Stations



Energy Storage
Systems



Industrial
Equipment



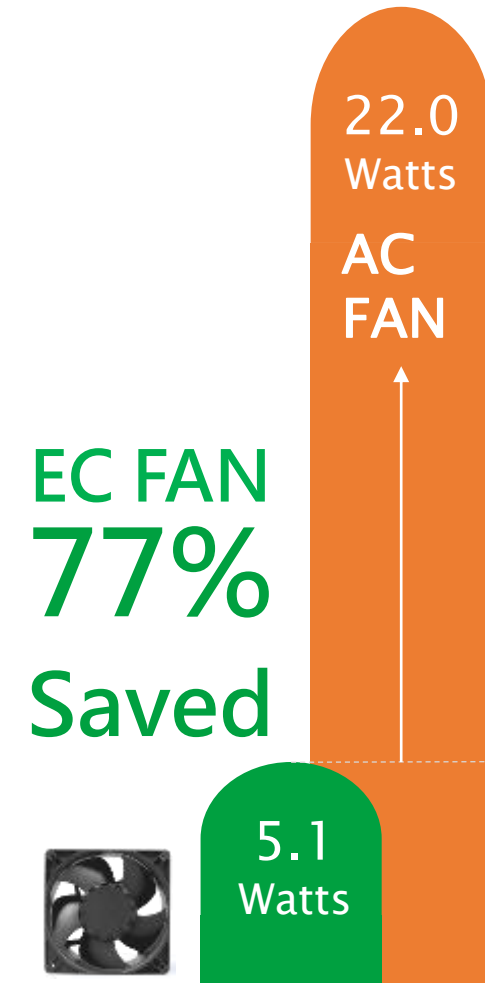
Data Center
Precision
Air-conditioning

Economical & Environmentally Friendly Solutions



120x120x38mm Cooling Fan

Feature	EC Fan	AC Fan
Input Voltage (VAC)	100~240 (50/60Hz)	220 (50Hz)
Power (Watt)	5.1	22.0
Power charge / year	10 USD / year	41 USD / year
CO2 consumption (kg)	23.9	103.5



What are Major Benefits of EC Technology?

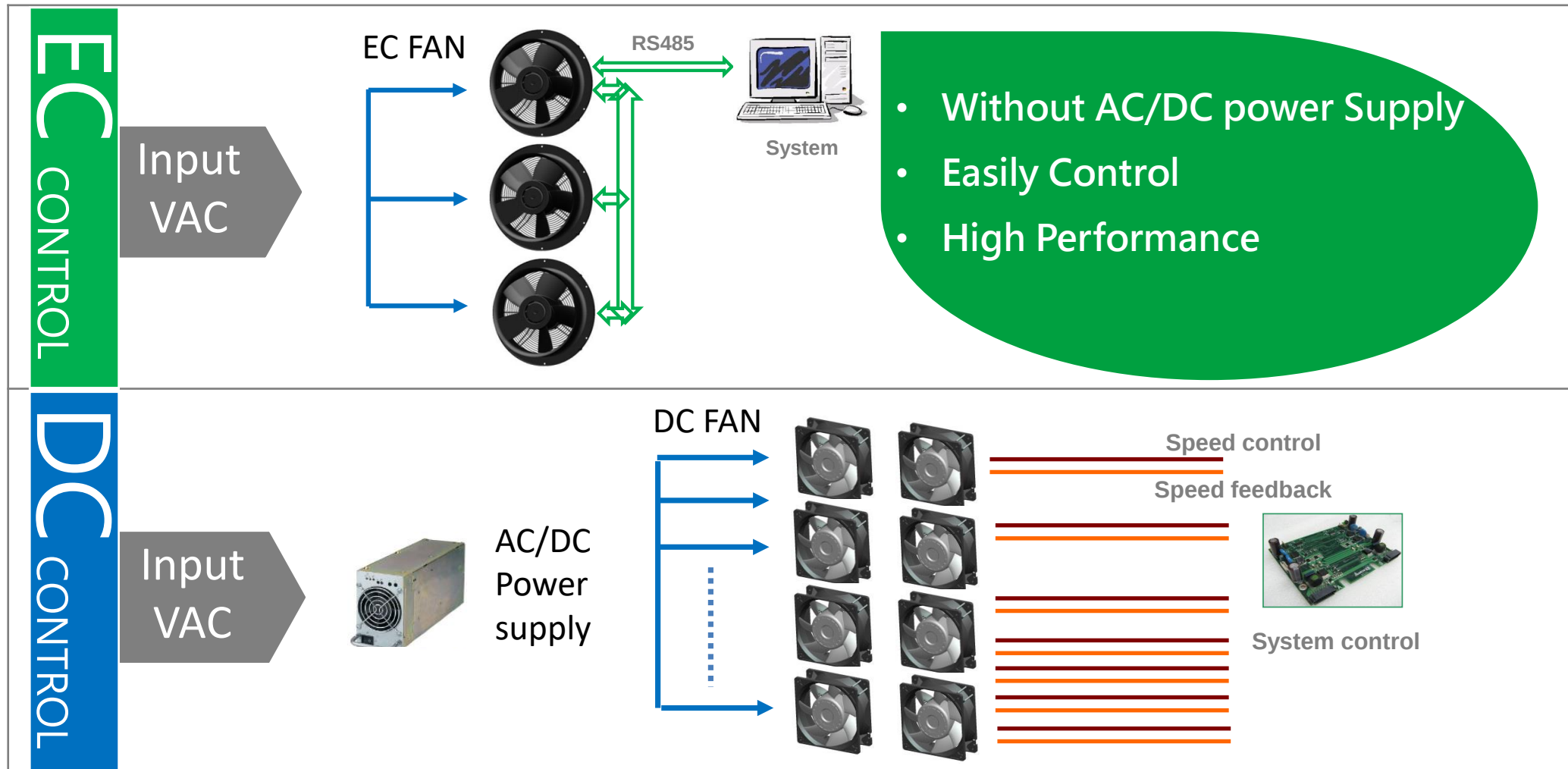


EC (Electronically Commutated)

1. Motor module efficiency 80~92% above
2. AC-rated input
(Single Phase~ 110VAC, 220VAC / Three Phase~380VAC @ 50~60Hz)
*200~277VAC / 380~480VAC achievable
3. Built-in AC to DC inverter
4. Speed control via 0-10VDC or PWM or MODBUS
5. Low acoustic noise
6. Tach signal output
7. Alarm signal output while rotor locked
8. Operation temperature : -25 ~ 60°C

Benefits	EC	DC	AC
Efficiency	✓ High	High	Low
Multi-speed Control	✓ Yes	Yes	None
Acoustic Noise	✓ Silent	Silent	Loud
Motor Life	✓ Excellent	Excellent	Good
Motor Space	✓ Compact	Small	Large
Speed Variation when AC Hz or Voltage Change	✓ Constant	NA	Large
AC Power Connected	✓ OK	Can not	OK

The Difference between DC and EC Controls

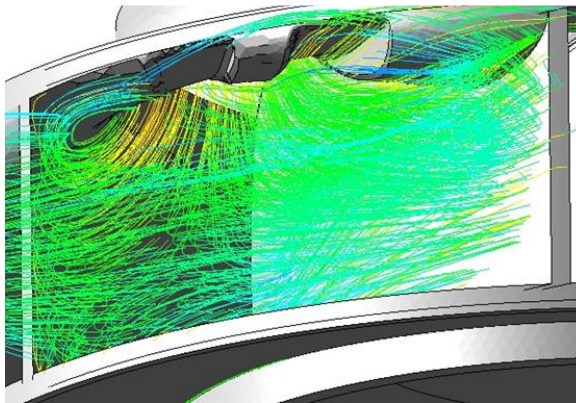


SUNON GREEN EC FAN Technical Features



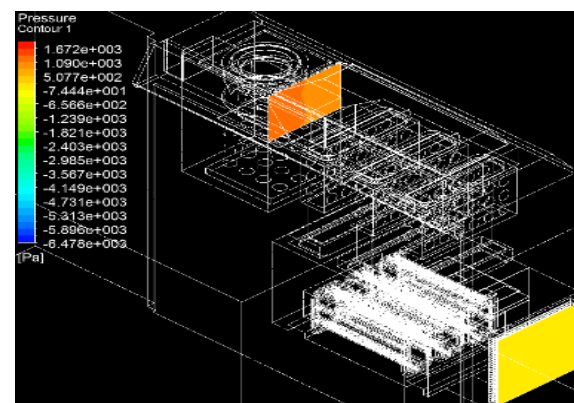
Compact Motor

Enhance capability with smaller size motor



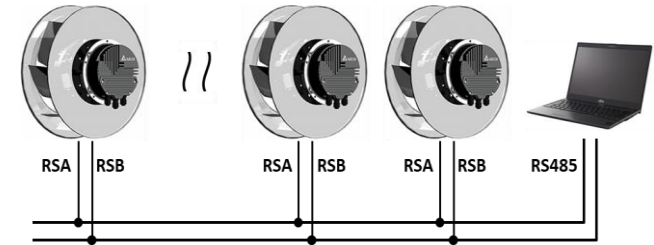
Aerodynamic

High energy efficiency and low noise



System Simulation

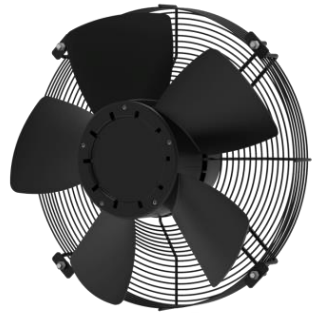
Optimize design for customer system application



Smart Control

Built-in smart controls, protections, and power-saving solutions

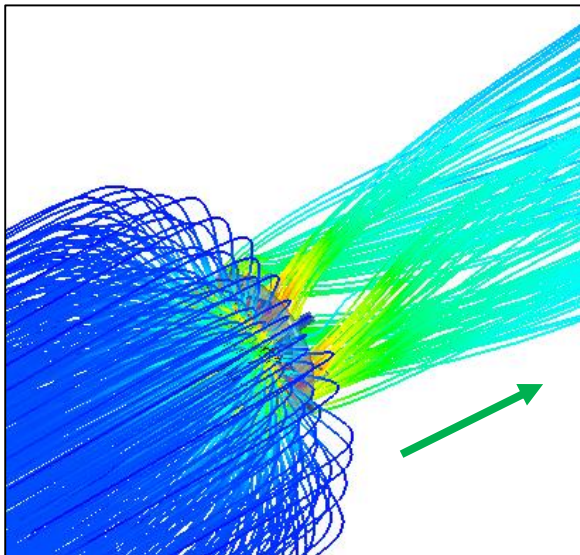
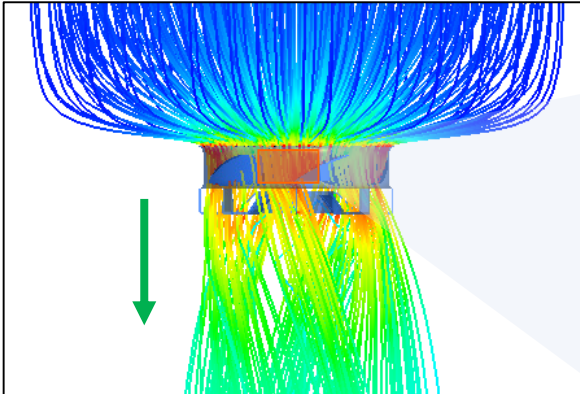
Powerful GREEN EC FAN



EC 500

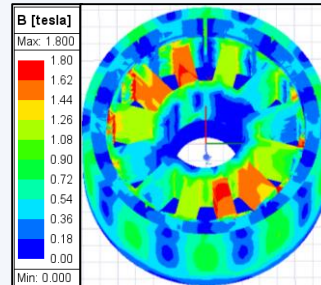
Axial Fan

Focused flow type



High Efficiency
>93%

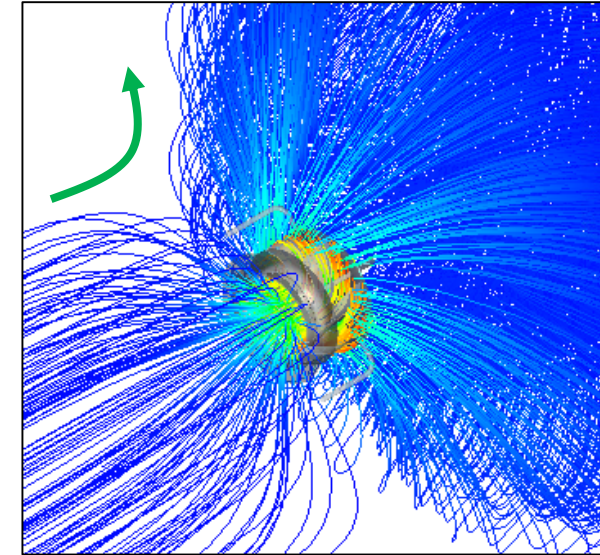
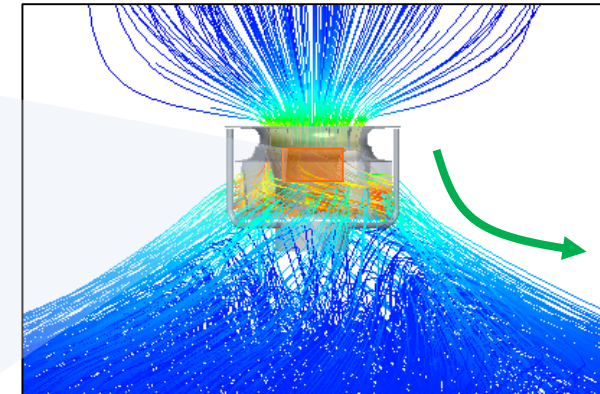
GREEN EC Motor



OD112 Motor Performance					
		Torque(N-m)			
		3	4	5	6
Speed(rpm)	500	89.98	88.06	85.66	82.33
	1000	93.27	92.72	91.70	90.22
	1500	93.77	93.64	93.20	92.49
	2000	93.76	94.07	93.77	92.99
	2500	94.22	94.54	93.79	92.90
	3000	93.80	93.53	92.64	90.93

Centrifugal Fan

Diffused flow type

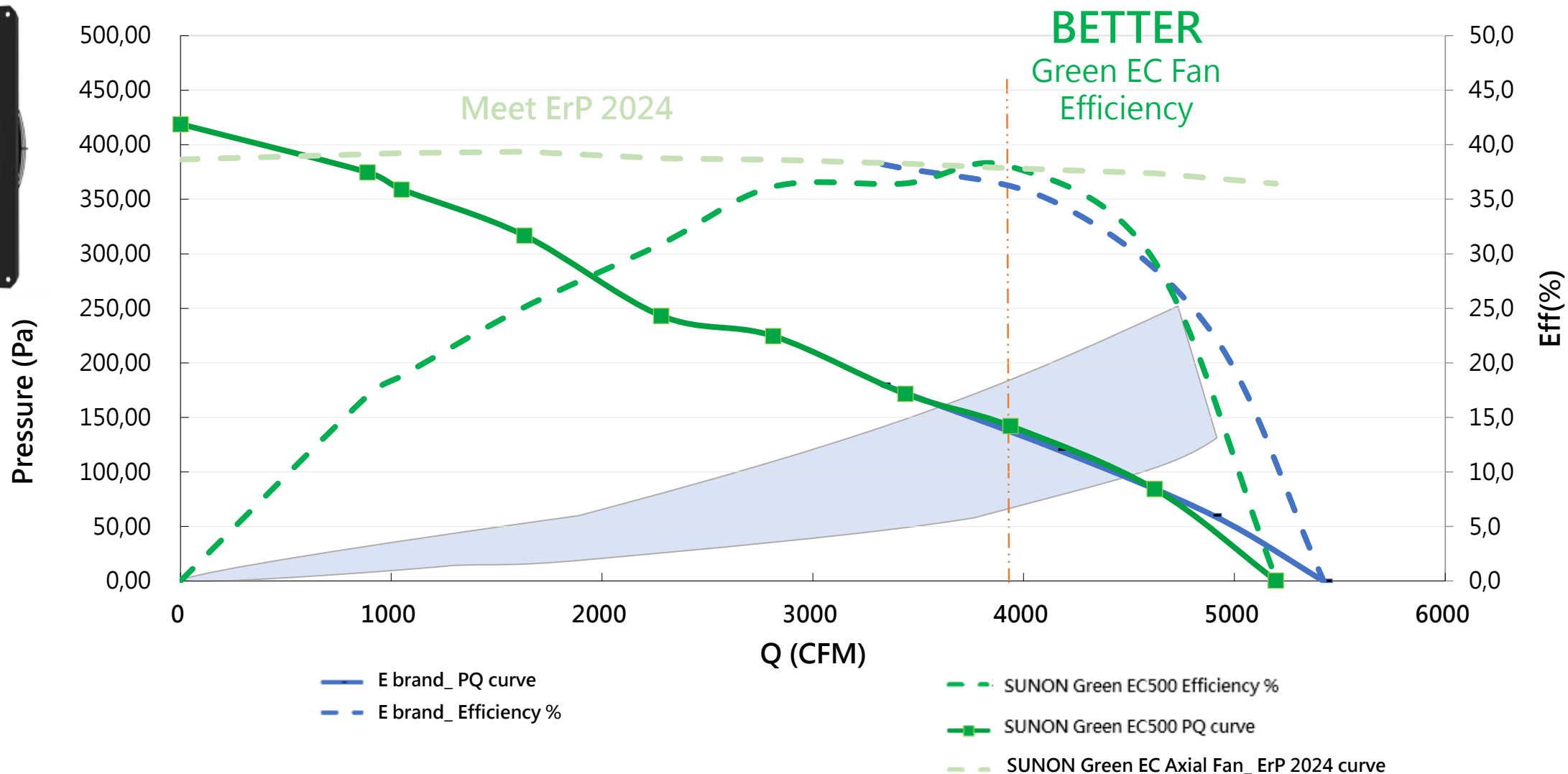


EC 355

Powerful GREEN EC FAN



EC 500



GREEN EC FAN Smart Controls & Safety Functions

Features		Suitable for
Speed Control	Control Input 0-10 VDC / PWM or 4-20mA	
	Output 10 VDC (+10 %) max. 10 mA	
Communication	RS 485 MODBUS-RTU	Motor power >200W
Efficiency	Passive PFC (Standard) or Active PFC (Customized)	Motor power >1KW
Protection	Operation and Fault Indicator	ALARM wire provided
	Locked-rotor Protection / Soft Start / Motor Current Limitation	
	Alarm Relay	Motor power >500W
	Thermal Overload Protection for Electronics / Motor / Overload	
	Under-voltage (UVP) / High-low Voltage Protection	
	Phase Failure Detection	Input voltage / phase @ 3~380V-480V
	Control Interface with SELV Potential Safely Disconnected from Supply	Conformity with SELV
	Temperature De-rating (Loading)	

SUNON EC Fans



Powerful



Silent



Sustainable

SUNON Total EC Fans Portfolio

Compact Axial Fan

1 Φ 100Vac, 1 Φ 220Vac, Under 50W



60x25mm



70x25mm



80x25mm



92x25mm



120x38mm



250x78mm

Plastic

Fan Spec

1 Φ 100Vac
1 Φ 220Vac
170W max.

1 Φ 220Vac
230W max.

1 Φ 220Vac
3 Φ 380Vac
1kW max.

3 Φ 380Vac
3kW max.

3 Φ 380Vac
6kW max.

Axial Fan



Ø254mm



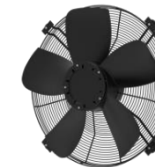
Ø330mm



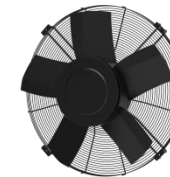
Ø400mm



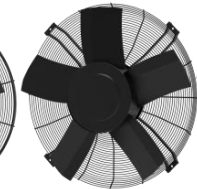
Ø500mm



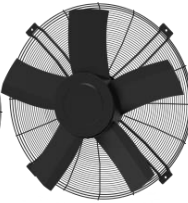
Ø630mm



Ø710mm



Ø800mm



Ø910mm

Metal Housing / Plastic Impeller

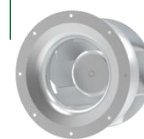
Centrifugal Fan



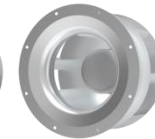
Ø133mm

Ø190mm

Ø225mm



Ø310mm



Ø355mm



Ø400mm



Ø500mm



Ø630mm



Ø500mm



Ø560mm



Ø630mm

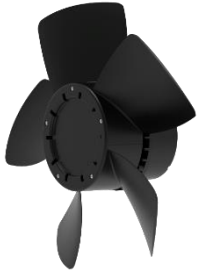
Plastic

Metal Housing / Metal Impeller

GREEN EC Fan Product Modules

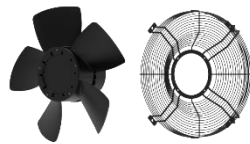
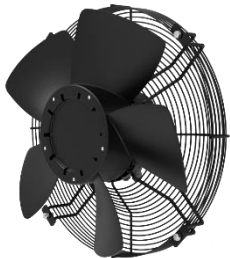
Axial Fan

A



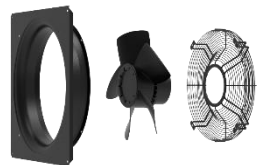
Motor with Impeller
(CFS series)

B



Motorized Impeller + Finger Guard
(CFW series)

C



Fan Housing + Motorized Impeller +
Finger Guard (CFA series)

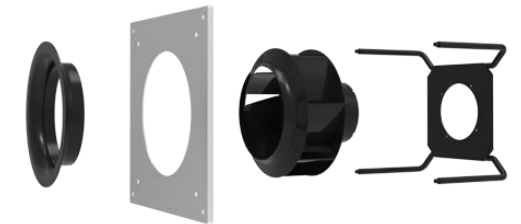
Centrifugal Fan

A



Inlet Ring + Motor with Impeller
(CBI series)

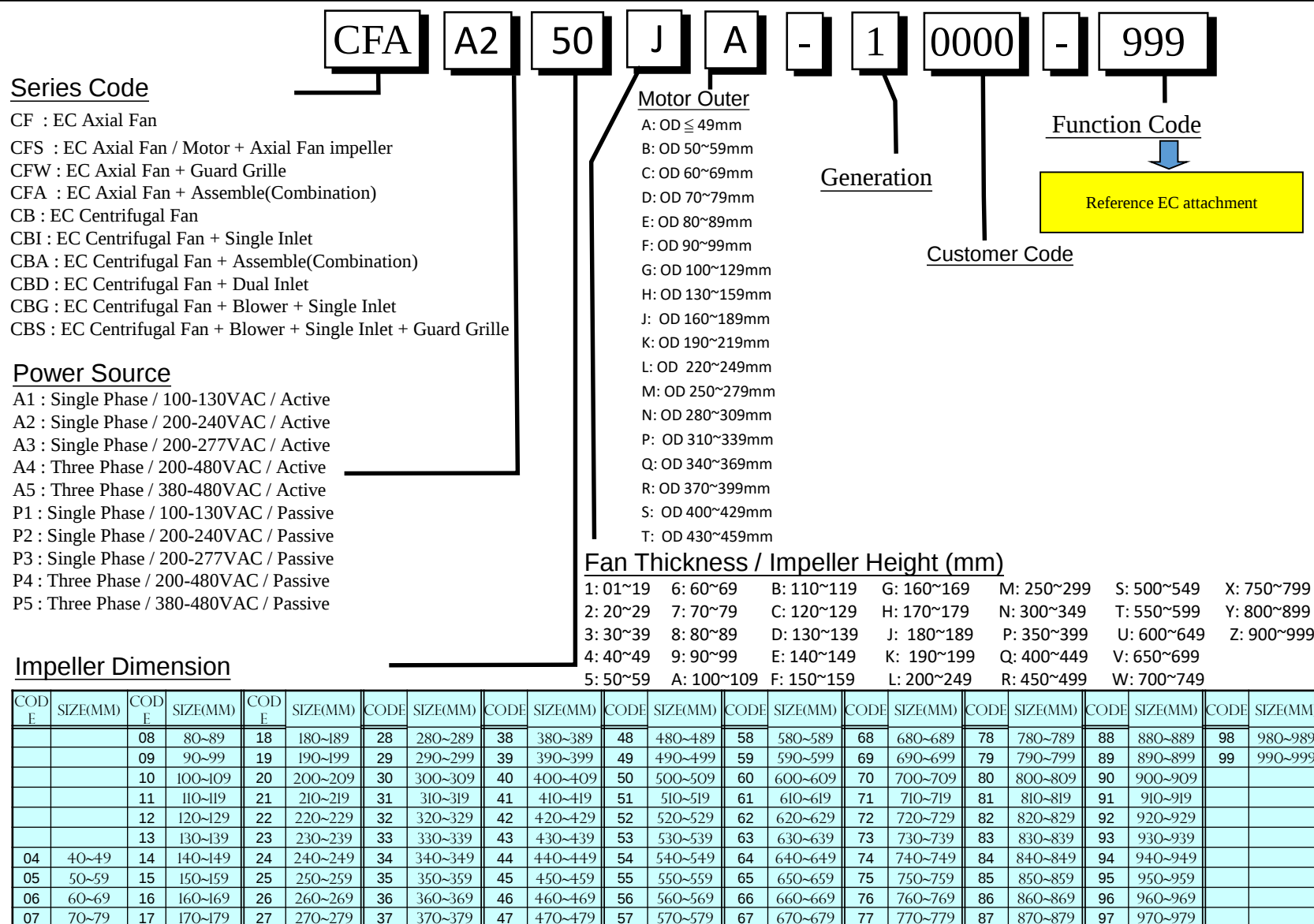
B



Inlet Ring + Support Plate +
Motorized Impeller + Support Bracket
(CBA series)

AC to DC(EC) Model rules

HEGT-Fan (High-Efficiency Green Technology)



2025 ECO EC Product Roadmap

Fan series	Option	2025				2026			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Eco EC12038 -2000U (X speed)	IP68 EN60335-02-89 (ANNEX BB) IP68 ATEX	Tooling Sample		MP					
Eco EC17051 -1000U	IP68 EN60335-02-89 (ANNEX BB) IP68 ATEX		Tooling Sample		MP				
Eco EC6025mm 2B (new CF2062HVL)	IP68 EN60335-02-89 (ANNEX BB) IP68 ATEX					Tooling Sample		MP	
Eco EC8025mm 2B (new CF2082HVL)	IP68 EN60335-02-89 (ANNEX BB) IP68 ATEX					Tooling Sample		MP	
Eco EC9225mm 2B (new CF2092HVL)	IP68 EN60335-02-89 (ANNEX BB) IP68 ATEX					Tooling Sample		MP	

2025 GREEN EC Product Roadmap (EC Axial Fan)

Fan size	Voltage V	Power W	SSR	MPPL	SAFETY		ErP
EC254	1~220	160	Jun, 2025	Dec, 2025	UL / TUV / CE / CCC	Sep, 2025	ErP 2024
EC400	1~220	432	Jun, 2025	Dec, 2025	UL / TUV / CE / CCC	Sep, 2025	ErP 2024
EC500	1~220	509	Apr, 2025	Oct, 2025	UL / TUV / CE / CCC	Jul, 2025	ErP 2024
EC500	3~400	696	Apr, 2025	Oct, 2025	UL / TUV / CE / CCC	Jul, 2025	ErP 2024
EC630	3~400	615	Apr, 2025	Oct, 2025	UL / TUV / CE / CCC	Jul, 2025	ErP 2024
EC710	3~400	2190	Jun, 2025	Dec, 2025	UL / TUV / CE / CCC	Sep, 2025	ErP 2024
EC710	3~400	2100	Jun, 2025	Dec, 2025	UL / TUV / CE / CCC	Sep, 2025	ErP 2024
EC800	3~400	2700	Jun, 2025	Dec, 2025	UL / TUV / CE / CCC	Sep, 2025	ErP 2024
EC910	3~400	1800	Jun, 2025	Dec, 2025	UL / TUV / CE / CCC	Sep, 2025	ErP 2024

EC330 custom design, not yet plan for std.

2025 GREEN EC Product Roadmap (EC Centrifugal Fan)

Fan size	Voltage V	Power W	SSR	MPPL	SAFETY		ErP
EC 310	1~220	312	Jun, 2025	Dec, 2025	UL / TUV / CE / CCC	Sep, 2025	ErP 2024
EC 310	3~400	670	Apr, 2025	Oct, 2025	UL / TUV / CE / CCC	Jul, 2025	ErP 2024
EC 355	1~220	280	Jun, 2025	Dec, 2025	UL / TUV / CE / CCC	Sep, 2025	ErP 2024
EC 355	3~400	1100	Apr, 2025	Oct, 2025	UL / TUV / CE / CCC	Jul, 2025	ErP 2024
EC 355	3~400	1750	May, 2025	Nov, 2025	UL / TUV / CE / CCC	Aug, 2025	ErP 2024
EC 355	3~400	2130	May, 2025	Nov, 2025	UL / TUV / CE / CCC	Aug, 2025	ErP 2024
EC 400	3~400	1100	Apr, 2025	Oct, 2025	UL / TUV / CE / CCC	Jul, 2025	ErP 2024
EC 500	3~400	1800	Jun, 2025	Dec, 2025	UL / TUV / CE / CCC	Sep, 2025	ErP 2024
EC 560	3~400	1591	Jun, 2025	Dec, 2025	UL / TUV / CE / CCC	Sep, 2025	ErP 2024
EC 630	3~400	2295	Jun, 2025	Dec, 2025	UL / TUV / CE / CCC	Sep, 2025	ErP 2024

Fan size	Voltage V	Power W	SSR	MPPL	SAFETY		ErP
EC 133	1~220	52	Mar.2026	Sep,2026	UL / TUV / CE / CCC	Jun,2026	Non
EC 155	1~220	40	Mar.2026	Sep,2026	UL / TUV / CE / CCC	Jun,2026	Non
EC 190	1~220	85/175	Mar.2026	Sep,2026	UL / TUV / CE / CCC	Jun,2026	ErP 2024
EC 225	1~220	85/175	Mar.2026	Sep,2026	UL / TUV / CE / CCC	Jun,2026	ErP 2024
EC 250	1~220	200	Mar.2026	Sep,2026	UL / TUV / CE / CCC	Jun,2026	ErP 2024

SUNON EC Series

Axial Fans & Centrifugal Fans
Specifications

MagLev EC Fan Series

Fan Size : 60x60x25~92x92x25 mm



60 x 25 mm

70 x 25 mm

80 x 25 mm

92 x 25 mm

Size (mm)	Model	Bearing	Rated Voltage (VAC)	Freq. (Hz)	Power Current (A)	Power Consumption (W)	Fan Speed (RPM)	Air Flow (CFM / m3/h)	Static Pressure (In-H2O / Pa)	Noise (dB(A))
60 x 25	CF1062HVL-1000X-XXX	Vapo	100-120	50 / 60	0.22 / 0.22	2.7 / 2.8	4100 / 4200	17.5 / 29.76 18.0 / 30.61	0.19 / 47.31 0.20 / 49.80	30.0 / 31.0
	CF2062HVL-1000X-XXX	Vapo	200-240	50 / 60	0.27 / 0.29	3.3 / 3.6	4100 / 4200	17.5 / 29.76 18.0 / 30.61	0.19 / 47.31 0.20 / 49.80	30.0 / 31.0
70 x 25	CF1072HVL-1000X-XXX	Vapo	100-120	50 / 60	0.24 / 0.23	3.0 / 3.1	3500 / 3600	28.0 / 47.61 29.0 / 49.31	0.17 / 42.33 0.18 / 44.82	30.0 / 31.0
	CF2072HVL-1000X-XXX	Vapo	200-240	50 / 60	0.29 / 0.30	3.6 / 3.9	3500 / 3600	28.0 / 47.61 29.0 / 49.31	0.17 / 42.33 0.18 / 44.82	30.0 / 31.0
80 x 25	CF1082HVL-1000X-XXX	Vapo	100-120	50 / 60	0.22 / 0.21	3.2 / 3.2	3100 / 3200	40.0 / 68.02 41.0 / 69.72	0.14 / 34.86 0.15 / 37.35	32.0 / 33.0
	CF2082HVL-1000X-XXX	Vapo	200-240	50 / 60	0.24 / 0.25	3.6 / 3.9	3100 / 3200	40.0 / 68.02 41.0 / 69.72	0.14 / 34.86 0.15 / 37.35	32.0 / 33.0
92 x 25	CF1092HVL-1000X-XXX	Vapo	100-120	50 / 60	0.24 / 0.23	3.3 / 3.4	2800 / 2900	52.0 / 88.43 41.0 / 91.83	0.12 / 29.88 0.14 / 37.35	31.0 / 32.0
	CF2092HVL-1000X-XXX	Vapo	200-240	50 / 60	0.24 / 0.26	3.8 / 4.2	2800 / 2900	52.0 / 88.43 41.0 / 91.83	0.12 / 29.88 0.14 / 37.35	31.0 / 32.0

*All model can be customized. Please contact Sunon Sales.

*Specifications are subject to change without notice.

Eco EC Fan Series

Function codes

FG+PWM : S99
IP21 : AA9, SA9
IP55 : AB9, SB9
IP55/ IP68 + ATEX : AE9, AED



120x120x38 mm

Fan Size : 120x120x 38 mm

	Size (mm)	Model	Bearing	Rated Voltage (VAC)	Freq. (Hz)	Power Current (A)	Power Consumption (W)	Fan Speed (RPM)	Air Flow (CFM / m3/h)	Static Pressure (In-H2O / Pa)	Noise (dB(A))
IP21 IP55	120x38	CF4113HBL-10000-A99	Ball	100-240	50/60	0.107 / 0.058	5.1	3600	109 / 185.19	0.37 / 92.16	44.9
		CF4113HBT-10000-A99	Ball	100-240	50/60	0.107 / 0.058	5.1	3600	109 / 185.19	0.37 / 92.16	44.9
		CF4113MBL-10000-A99	Ball	100-240	50/60	0.08 / 0.045	3.6	3100	90.1 / 153.08	0.31 / 77.21	40.2
		CF4113MBT-10000-A99	Ball	100-240	50/60	0.08 / 0.045	3.6	3100	90.1 / 153.08	0.31 / 77.21	40.2
		CF4113LBL-10000-A99	Ball	100-240	50/60	0.038 / 0.025	1.8	2100	64.3 / 109.24	0.17 / 42.34	31.4
		CF4113LBT-10000-A99	Ball	100-240	50/60	0.038 / 0.025	1.8	2100	64.3 / 109.24	0.17 / 42.34	31.4
ATEX IP68		CF4113HBL-0000-AE9	Ball	110-230	50/60	0.081 / 0.056	5.1	3500	109 / 185.19	0.37 / 92.16	44.9
		CF4113MBL-0000-AE9	Ball	110-230	50/60	0.061 / 0.037	3.4	3000	90.1 / 153.08	0.31 / 77.21	40.2
		CF4113LBL-0000-AE9	Ball	110-230	50/60	0.037 / 0.022	1.8	2000	64.3 / 109.24	0.17 / 42.34	31.4

Safety : CCC / CE / TUV / UL / CUL

*All model can be customized. Please contact Sunon Sales.

*Specifications are subject to change without notice.

Eco EC Fan Series

Function codes

2 Speed Controls

IP55 : HB9

IP68 : HE9



IP55



IP68

Fan Size : ø250 x78 mm

	Size (mm)	Model	Bearing	Rated Voltage (VAC)	Freq. (Hz)	Power Current (A)	Power Consumption (W)	Fan Speed (RPM)	Air Flow (CFM / m3/h)	Static Pressure (In-H2O / Pa)	Noise (dB(A))
IP55	250x78	CF4207HBL-1000X-XXX	Ball	100-240	50/60	0.36 / 0.20	16.5 / 17.5	2100 / 1500	438 / 744 310 / 526	0.57 / 142 0.40 / 100	53.4 / 44.3
		CF4207LBL-1000X-XXX	Ball	100-240	50/60	0.10 / 0.07	5.0 / 6.0	1350 / 950	280 / 476 195 / 333	0.27 / 67 0.16 / 40	41.2 / 29.9
IP68		CF2207LBL-000X-XXX	Ball	220-240	50/60	0.07 / 0.038	6.6 / 3.2	1400 / 950	278.8 / 472 186 / 316	0.3 / 63.7 0.16 / 39.8	41.2 / 29.9

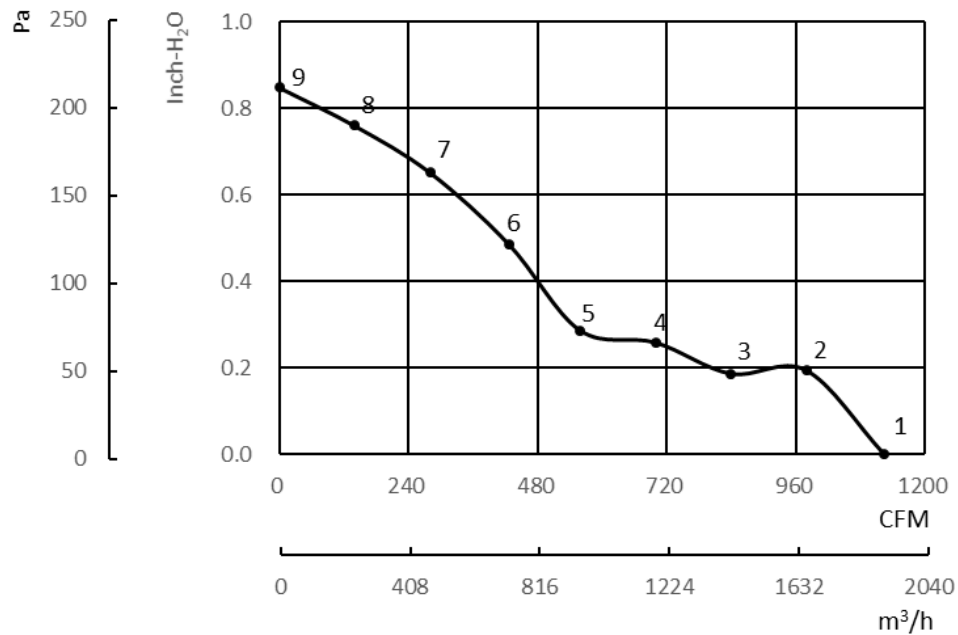
Safety : CCC / CE / TUV / UL / CUL

*All model can be customized. Please contact Sunon Sales.

*Specifications are subject to change without notice.

EC 254 Axial Fan Series

Brand	Size (mm)	Model	Bearing	Rated Voltage (VAC)	Freq. (Hz)	Power Current (A)	Power Consumption (W)	Fan Speed (RPM)	Air Flow (CFM / m3/h)	Static Pressure (In-H2O / Pa)	Noise (dB(A))
SUNON	254X89	CFSP2228D-10000-IJ9	Ball	1~ 200-240	50/60	1.3	160	2570	1200 / 2039	0.85 / 212	73
Orion Fans	254X89	OA254EC-11-1WBXCIP68A	Ball	1~115/230	50/60	1.05 / 0.6	75	2750	830 / 1411	1.2 / 298.8	70.1



General Information

MOTOR : EC external rotor motor
 IMPELLER : Plastic PA66
 INSULATION : Class F
 OPERATING TEMPERATURE : -30°C to + 70°C
 INSULATION RESISTANCE : 10M Ω min. @500 VDC

IP68	FG / RD	0-10 VDC	PWM	ATEX
------	---------	----------	-----	------

Notes :
 SSR Sample : 2025 Jun.
 MP : 2025 Dec.
 Safety : UL / TUV / CE / CCC



CFS

*All model can be customized. Please contact Sunon Sales.
 *Specifications are subject to change without notice.

EC 400 Axial Fan Series



Meet ErP 2024

Brand	Size (mm)	Model	Bearing	Rated Voltage (VAC)	Freq. (Hz)	Power Current (A)	Power Consumption (W)	Fan Speed (RPM)	Air Flow (CFM / m3/h)	Static Pressure (In-H2O / Pa)	Noise (dB(A))
SUNON	540X154	CFAP340FE-10000-IJ9	Ball	1~ 200-277	50/60	1.89	429	1750	3500 / 5947	0.7 / 174*	79
EBM	540X154	W3G 400-FK08 -H1	Ball	1~ 200-277	50/60	1.89	432	1760	3492 / 5490	0.72 / 179*	79

*WORKING POINT

General Information

MOTOR : EC external rotor motor

IMPELLER : Plastic PA66

INSULATION : Class B

OPERATING TEMPERATURE : -25°C to + 60°C

INSULATION RESISTANCE : 10M Ω min. @500 VDC

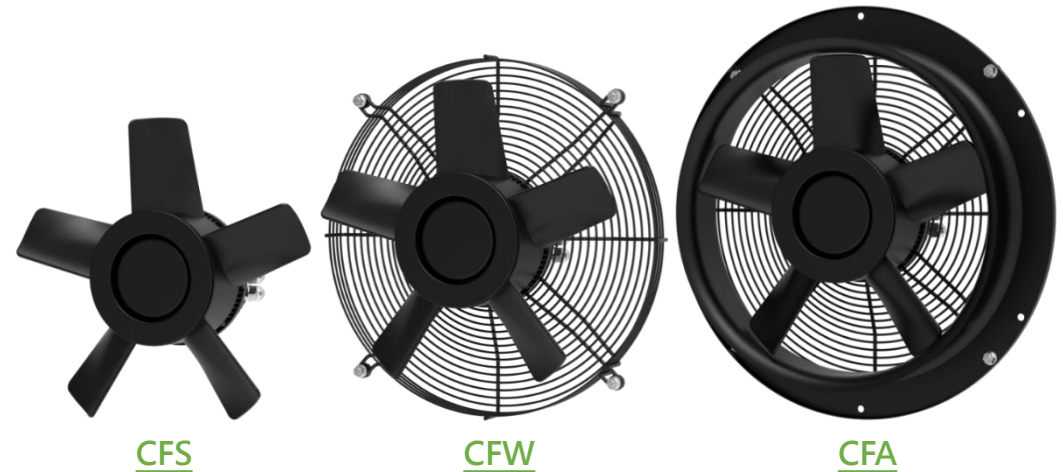
IP55	FG / RD	0-10 VDC	PWM	RS-485
------	---------	----------	-----	--------

Notes :

SSR Sample : 2025 Jun.

MP : 2025 Dec.

Safety : UL / TUV / CE / CCC



*All model can be customized. Please contact Sunon Sales.

*Specifications are subject to change without notice.

EC 500 Axial Fan Series



Meet ErP 2024

Brand	Size (mm)	Model	Bearing	Rated Voltage (VAC)	Freq. (Hz)	Power Current (A)	Power Consumption (W)	Fan Speed (RPM)	Air Flow (CFM / m3/h)	Static Pressure (In-H2O / Pa)	Noise (dB(A))
SUNON	640X187	CFAA250JG-10000-IJ9	Ball	1~ 200-277	50/60	2.23	509	1600	5200 / 8835	1.68 / 418	86.4
EBM	656X213	W3G 500-GA74 -21	Ball	1~ 200-277	50/60	2.37	533	1440	5421 / 9221	0.77 / 192*	77

*WORKING POINT

General Information

MOTOR : EC external rotor motor

IMPELLER : Plastic PA66

INSULATION : Class F

OPERATING TEMPERATURE : -25°C to + 60°C

INSULATION RESISTANCE : 10M Ω min. @500 VDC

IP55

FG / RD

0-10 VDC

PWM

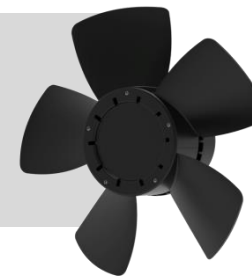
RS-485

Notes :

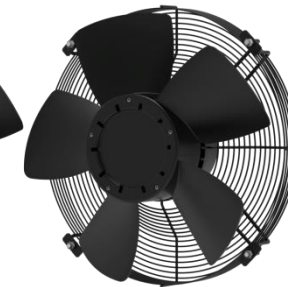
SSR Sample : 2025 Apr.

MP : 2025 Oct.

Safety : UL / TUV / CE / CCC



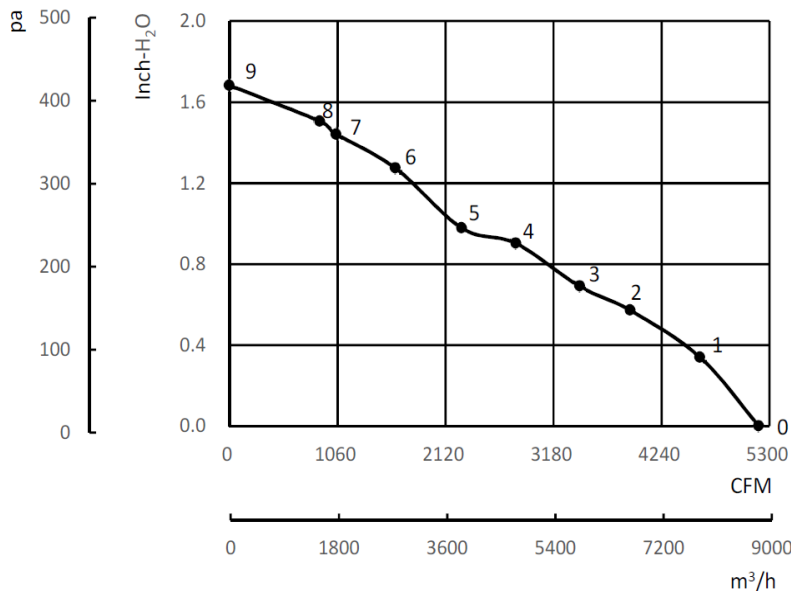
CFS



CFW



CFA



*All model can be customized. Please contact Sunon Sales.

*Specifications are subject to change without notice.

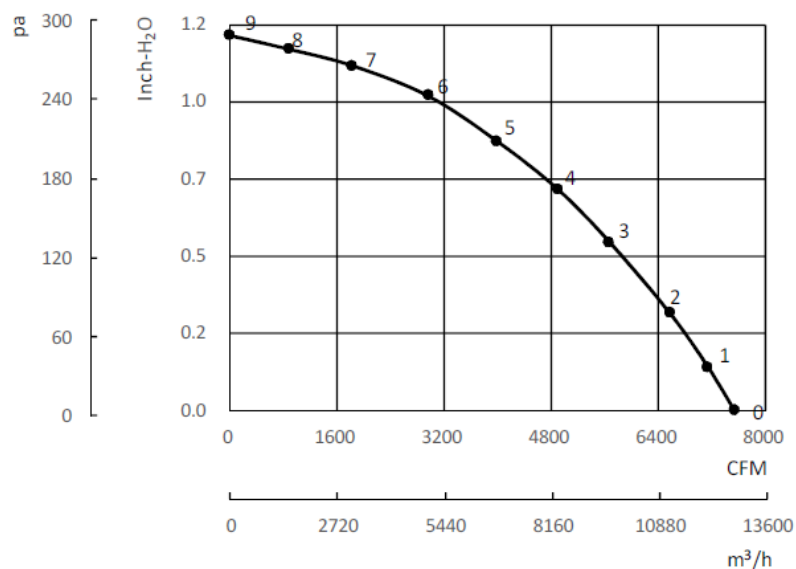
EC 500 Axial Fan Series



Meet ErP 2024

Brand	Size (mm)	Model	Bearing	Rated Voltage (VAC)	Freq. (Hz)	Power Current (A)	Power Consumption (W)	Fan Speed (RPM)	Air Flow (CFM / m ³ /h)	Static Pressure (In-H ₂ O / Pa)	Noise (dB(A))
SUNON	805X221	CFAP550LG-10000-IJ9	Ball	3~ 380/480	50/60	1.44	696	1160	7546 / 12821	1.16 / 289	82
EBM	656X213	W3G 500-GD59 -01	Ball	3~ 380/480	50/60	1.58	987	1770	6762 / 11500	0.96 / 239*	80

*WORKING POINT



General Information

MOTOR : EC external rotor motor

IMPELLER : Plastic PA66

INSULATION : Class F

OPERATING TEMPERATURE : -25°C to + 60°C

INSULATION RESISTANCE : 10M Ω min. @500 VDC

IP55

FG / RD

0-10 VDC

PWM

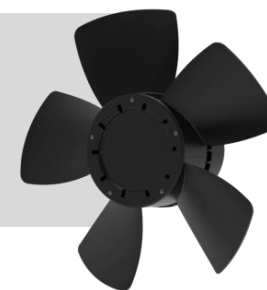
RS-485

Notes :

SSR Sample : 2025 Apr.

MP : 2025 Oct.

Safety : UL / TUV / CE / CCC



CFS



CFW



CFA

*All model can be customized. Please contact Sunon Sales.

*Specifications are subject to change without notice.

EC 630 Axial Fan Series



Meet ErP 2024

Brand	Size (mm)	Model	Bearing	Rated Voltage (VAC)	Freq. (Hz)	Power Current (A)	Power Consumption (W)	Fan Speed (RPM)	Air Flow (CFM / m3/h)	Static Pressure (In-H2O / Pa)	Noise (dB(A))
SUNON	805X272	CFAP563MG-10000-IJ9	Ball	3~ 380/480	50/60	1.1	615	1255	8500 / 14442	0.98 / 244*	73
EBM	805X273	W3G 630 NR63 01	Ball	3~ 380/480	50/60	0.99	620	1260	8643 / 14700	1.38 / 343*	73

*WORKING POINT

General Information

MOTOR : EC external rotor motor

IMPELLER : Plastic PA66

INSULATION : Class F

OPERATING TEMPERATURE : -25°C to + 60°C

INSULATION RESISTANCE : 10M Ω min. @500 VDC

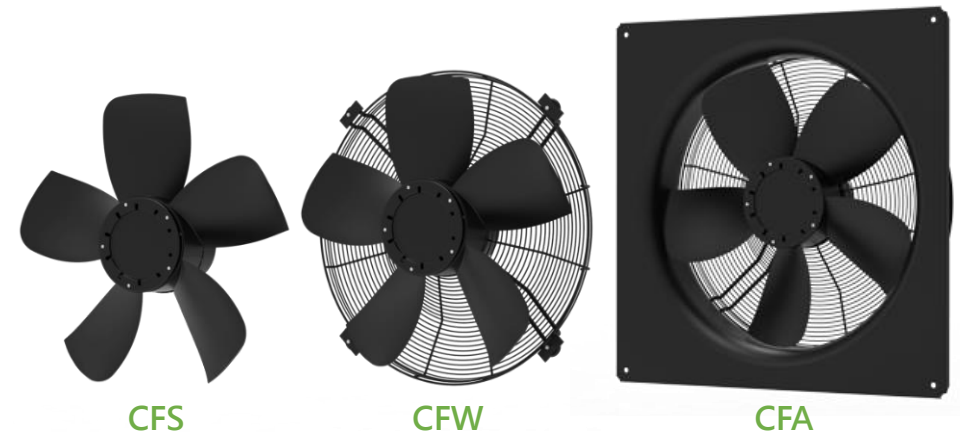
IP55	FG / RD	0-10 VDC	PWM	RS-485
------	---------	----------	-----	--------

Notes :

SSR Sample : 2025 Apr.

MP : 2025 Oct.

Safety : UL / TUV / CE / CCC



*All model can be customized. Please contact Sunon Sales.

*Specifications are subject to change without notice.

EC 710 Axial Fan Series



Meet ErP 2024

Brand	Size (mm)	Model	Bearing	Rated Voltage (VAC)	Freq. (Hz)	Power Current (A)	Power Consumption (W)	Fan Speed (RPM)	Air Flow (CFM / m3/h)	Static Pressure (In-H2O / Pa)	Noise (dB(A))
SUNON	850X284	CFAP571MG-10000-xxx	Ball	3~ 380/480	50/60	3.2	2190	1260	14582 / 24775	0.97 / 242*	79
EBM	850X284	W3G 710-GU32 -71	Ball	3~ 380/480	50/60	3.43	2209	1250	14347 / 24400	0.92 / 229*	79
SUNON	850X279	CFAP571MG-10000-IJ9	Ball	3~ 380/480	50/60	3.32	2100	1650	15500 / 26335	1.8 / 448*	86*
EBM	850X279	W3G 710-NU31 -03	Ball	3~ 380/480	50/60	3.35	2150	1680	15039 / 25578	1.68 / 418*	87*

*WORKING POINT

General Information

MOTOR : EC external rotor motor

IMPELLER : Plastic PA66

INSULATION : Class F

OPERATING TEMPERATURE : -25°C to + 60°C

INSULATION RESISTANCE : 10M Ω min. @500 VDC

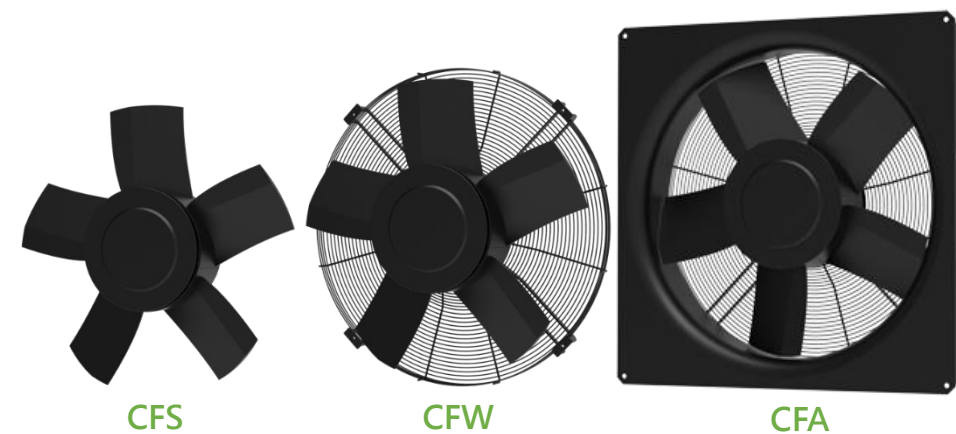
IP55	FG / RD	0-10 VDC	PWM	RS-485
------	---------	----------	-----	--------

Notes :

SSR Sample : 2025 Jun.

MP : 2025 Dec.

Safety : UL / TUV / CE / CCC



*All model can be customized. Please contact Sunon Sales.

*Specifications are subject to change without notice.

EC 800 Axial Fan Series



Meet ErP 2024

Brand	Size (mm)	Model	Bearing	Rated Voltage (VAC)	Freq. (Hz)	Power Current (A)	Power Consumption (W)	Fan Speed (RPM)	Air Flow (CFM / m3/h)	Static Pressure (In-H2O / Pa)	Noise (dB(A))
SUNON	1035X347	CFAP580NG-10000-IJ9	Ball	3~ 380/480	50/60	4.35	2700	1200	19404 / 32968	1.2 / 299*	89
EBM	1035X347	W3G 800-OU23 -05	Ball	3~ 380/480	50/60	4.23	2775	1250	19168 / 32600	1.2 / 299*	89

*WORKING POINT

General Information

MOTOR : EC external rotor motor

IMPELLER : Plastic PA66

INSULATION : Class F

OPERATING TEMPERATURE : -25°C to + 60°C

INSULATION RESISTANCE : 10M Ω min. @500 VDC

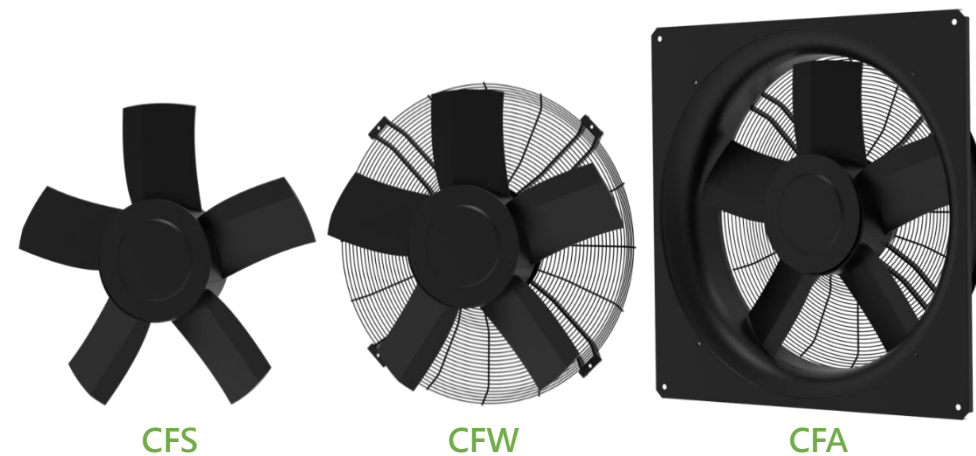
IP55	FG / RD	0-10 VDC	PWM	RS-485
------	---------	----------	-----	--------

Notes :

SSR Sample : 2025 Jun.

MP : 2025 Dec.

Safety : UL / TUV / CE / CCC



*All model can be customized. Please contact Sunon Sales.

*Specifications are subject to change without notice.

EC 910 Axial Fan Series



Meet ErP 2024

Brand	Size (mm)	Model	Bearing	Rated Voltage (VAC)	Freq. (Hz)	Power Current (A)	Power Consumption (W)	Fan Speed (RPM)	Air Flow (CFM / m3/h)	Static Pressure (In-H2O / Pa)	Noise (dB(A))
SUNON	1070X338	CFAP596PG-10000-IJ9	Ball	3~ 380/480	50/60	2.9	1800	1025	25000 / 42475	1.05 / 262*	81
EBM	1070X338	W3G 910-KV12 -03	Ball	3~ 380/480	50/60	2.98	1897	1050	21256 / 36151	1.04 / 259*	73

*WORKING POINT

General Information

MOTOR : EC external rotor motor

IMPELLER : Plastic PA66

INSULATION : Class F

OPERATING TEMPERATURE : -25°C to + 60°C

INSULATION RESISTANCE : 10M Ω min. @500 VDC

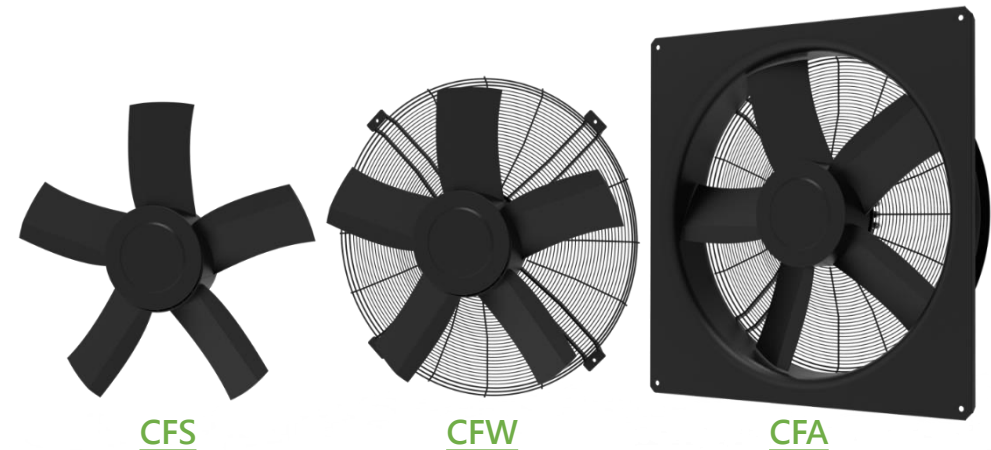
IP55	FG / RD	0-10 VDC	PWM	RS-485
------	---------	----------	-----	--------

Notes :

SSR Sample : 2025 Jun.

MP : 2025 Dec.

Safety : UL / TUV / CE / CCC



*All model can be customized. Please contact Sunon Sales.

*Specifications are subject to change without notice.

EC 310 Centrifugal Fan Series

Brand	Size (mm)	Model	Bearing	Rated Voltage (VAC)	Freq. (Hz)	Power Current (A)	Power Consumption (W)	Fan Speed (RPM)	Air Flow (CFM / m3/h)	Static Pressure (In-H2O / Pa)	Noise (dB(A))
SUNON	310X233	CBIP331LE-10000-IJ9	Ball	1~ 200-277	50/60	1.4	312	2540	2280 / 3874	2.4 / 598*	72
EBM	324*232	VBS0310CSNGS	Ball	1~ 200-277	50/60	1.41	318	2540	2272 / 3865	2.4 / 600*	72
SUNON	310X288	CBIP531ME-10000-IJ9	Ball	3~ 380-480	50/60	1.6	670	3000	3115 / 5292	4.4 / 1096*	83
EBM	324X289	VBS0310CTPMS	Ball	3~ 380-480	50/60	1.56	1008	3800	3372 / 5735	5.21 / 1300*	83

*WORKING POINT

General Information

MOTOR : EC external rotor motor

IMPELLER : Metal

INSULATION : Class F

OPERATING TEMPERATURE : -25°C to + 60°C

INSULATION RESISTANCE : 10M Ω min. @500 VDC

IP55

FG / RD

0-10V DC

PWM

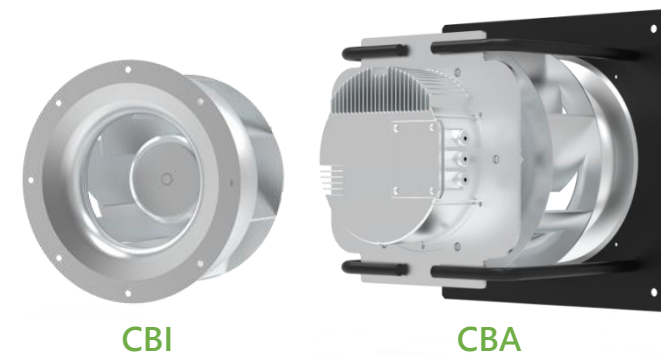
RS-485

Notes :

SSR Sample : 2025 Jun.

MP : 2025 Dec.

Safety : UL / TUV / CE / CCC



*All model can be customized. Please contact Sunon Sales.

*Specifications are subject to change without notice.

EC 355 Centrifugal Fan Series

Brand	Size (mm)	Model	Bearing	Rated Voltage (VAC)	Freq. (Hz)	Power Current (A)	Power Consumption (W)	Fan Speed (RPM)	Air Flow (CFM / m3/h)	Static Pressure (In-H2O / Pa)	Noise (dB(A))
SUNON	360X245	¹⁾ CBIP335LE-10000-IJ9	Ball	1~ 200-277	50/60	1.25	280	2000	2515 / 4273	1.82* / 453	70
SUNON	360X248	²⁾ CBIP535LG-10000-IJ9	Ball	3~ 380-480	50/60	1.72	1100	2400	3500 / 5947	5.21* / 1298	79
SUNON	360X267	³⁾ CBIP535MG-10000-IJ9	Ball	3~ 380-480	50/60	2.74	1750	3200	4821 / 8191	6.82* / 1699	100
SUNON	400X382	⁴⁾ CBIP540PG-10000-IJ9	Ball	3~ 380-480	50/60	3.25	2130	3550	4998 / 8492	7.62* / 1868	105

EBM: 1) VBS0355CSNGS ; 2) VBS0355CTPMS ; 3) VBS0355CTRLS ; 4) R3G355PW0701

*WORKING POINT

General information

MOTOR : EC external rotor motor

IMPELLER : Metal

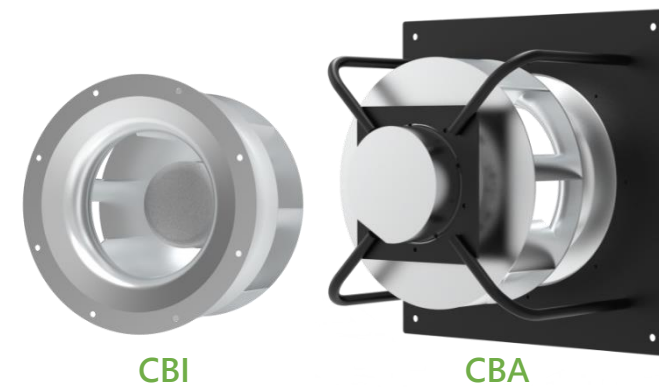
INSULATION : Class F

OPERATING TEMPERATURE : -25°C to + 60°C

INSULATION RESISTANCE : 10M Ω min. @500 VDC

IP55	FG / RD	0-10V DC	PWM	RS-485
------	---------	----------	-----	--------

Notes :
SSR Sample 2025 May
MP : 2025 Nov.
Safety : UL / TUV / CE / CCC



*All model can be customized. Please contact Sunon Sales.

*Specifications are subject to change without notice.

EC 400 Centrifugal Fan Series



Meet ErP 2024

Brand	Size (mm)	Model	Bearing	Rated Voltage (VAC)	Freq. (Hz)	Power Current (A)	Power Consumption (W)	Fan Speed (RPM)	Air Flow (CFM / m3/h)	Static Pressure (In-H2O / Pa)	Noise (dB(A))
SUNON	400X256	CBIP540MG-10000-IJ9	Ball	3~ 380-480	50/60	2.32	1100	2610	4600 / 7815	4.01 / 999*	90
EBM	500X409	VBS0400CTRHS	Ball	3~ 380-480	50/60	1.35	865	2450	4410 / 7500	4 / 996*	86

*WORKING POINT

General Information

MOTOR : EC external rotor motor

IMPELLER : Metal

INSULATION : Class F

OPERATING TEMPERATURE : -25°C to + 60°C

INSULATION RESISTANCE : 10M Ω min. @500 VDC

IP55	FG / RD	0-10V DC	PWM	RS-485
------	---------	----------	-----	--------

Notes :

SSR Sample : 2025 Apr

MP : 2025 Oct.

Safety : UL / TUV / CE / CCC



CBI

CBA

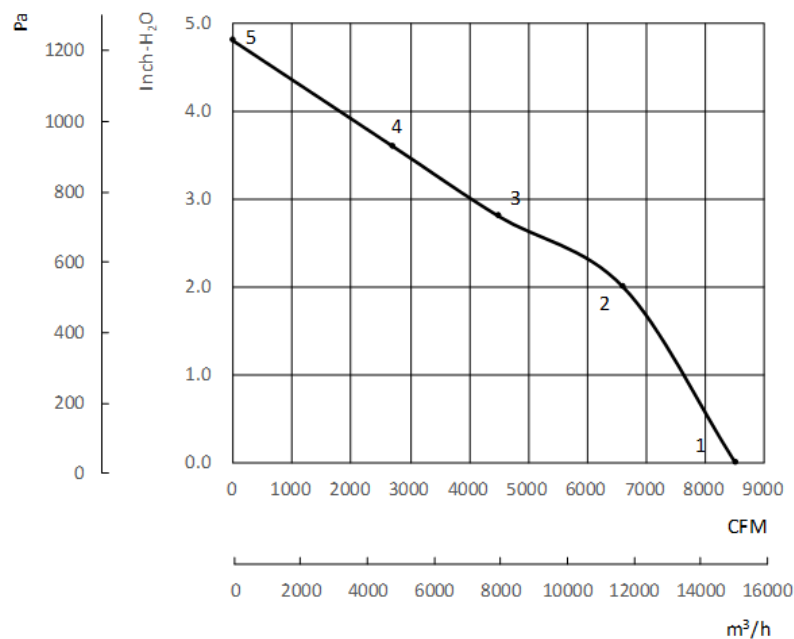
*All model can be customized. Please contact Sunon Sales.

*Specifications are subject to change without notice.

EC 500 Centrifugal Fan Series

Brand	Size (mm)	Model	Bearing	Rated Voltage (VAC)	Freq. (Hz)	Power Current (A)	Power Consumption (W)	Fan Speed (RPM)	Air Flow (CFM / m3/h)	Static Pressure (In-H2O / Pa)	Noise (dB(A))
SUNON	585X454	CBIP558RH-10000-IJ9	Ball	3~ 380-480	50/60	2.6	2100	1810	8500 / 14442	4.81 / 1198*	102
EBM	590X395	VBS0500CTRNS	Ball	3~ 380-480	50/60	2.56	2070	1604	7879 / 13400	4.61 / 1150*	88

*WORKING POINT



General Information

MOTOR : EC external rotor motor
 IMPELLER : Metal
 INSULATION : Class F
 OPERATING TEMPERATURE : -25°C to + 60°C
 INSULATION RESISTANCE : 10M Ω min. @500 VDC

IP55 FG / RD 0-10V DC PWM RS-485

Notes :
 SSR Sample 2025 Jun
 MP : 2025 Dec.
 Safety : UL / TUV / CE / CCC



CBI



CBA

*All model can be customized. Please contact Sunon Sales.
 *Specifications are subject to change without notice.

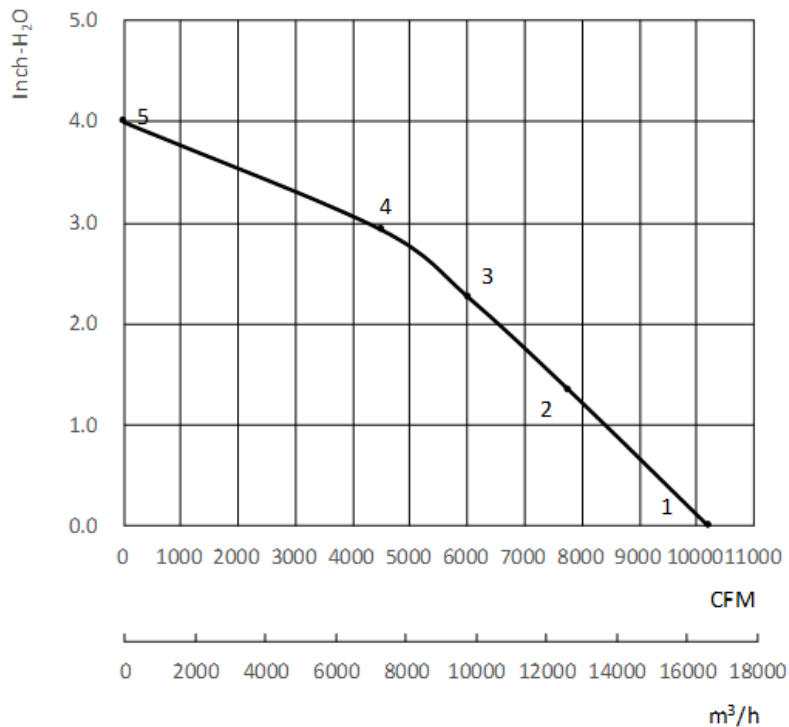
EC 560 Centrifugal Fan Series



Meet ErP 2024

Brand	Size (mm)	Model	Bearing	Rated Voltage (VAC)	Freq. (Hz)	Power Current (A)	Power Consumption (W)	Fan Speed (RPM)	Air Flow (CFM / m ³ /h)	Static Pressure (In-H ₂ O / Pa)	Noise (dB(A))
SUNON	656X483	CBIA565RH-10000-IJ9	Ball	3~ 380-480	50/60	2.52	1591	1470	10200 / 17330	4.01 / 999*	90
EBM	710X510	VBS0560CTTPS	Ball	3~ 380-480	50/60	4.12	2670	2080	10525 / 17900	4.9 / 1800*	92

*WORKING POINT



General Information

MOTOR : EC external rotor motor

IMPELLER : Metal

INSULATION : Class F

OPERATING TEMPERATURE : -25°C to + 60°C

INSULATION RESISTANCE : 10M Ω min. @500 VDC

IP55

FG / RD

0-10V DC

PWM

RS-485

Notes :

SSR Sample : 2025 Jun.

MP : 2025 Dec.

Safety : UL / TUV / CE / CCC



*All model can be customized. Please contact Sunon Sales.

*Specifications are subject to change without notice.

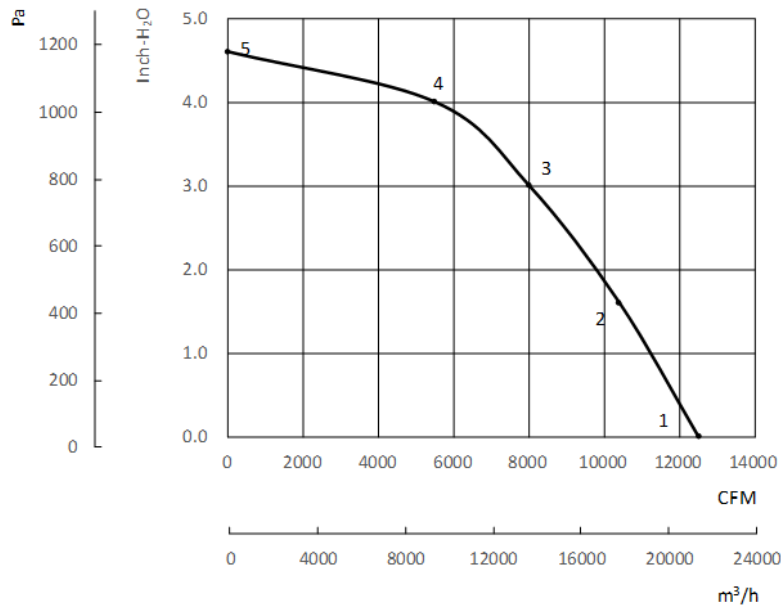
EC 630 Centrifugal Fan Series



Meet ErP 2024

Brand	Size (mm)	Model	Bearing	Rated Voltage (VAC)	Freq. (Hz)	Power Current (A)	Power Consumption (W)	Fan Speed (RPM)	Air Flow (CFM / m3/h)	Static Pressure (In-H2O / Pa)	Noise (dB(A))
SUNON	716X454	CBIA571RH-10000-IJ9	Ball	3~ 380-480	50/60	3.65	2295	1500	12500 / 21225	4.61 / 1147*	93
EBM	790X543	VBS0630CTTPS	Ball	3~ 380-480	50/60	3.49	2241	1630	12000 / 20408	4 / 1000*	90

*WORKING POINT



General information

MOTOR : EC external rotor motor

IMPELLER : Metal

INSULATION : Class F

OPERATING TEMPERATURE : -25°C to + 60°C

INSULATION RESISTANCE : 10M Ω min. @500 VDC

IP55

FG / RD

0-10V DC

PWM

RS-485

Notes :

SSR Sample : 2025 Jun.

MP : 2025 Dec.

Safety : UL / TUV / CE / CCC



CBI

CBA

*All model can be customized. Please contact Sunon Sales.

*Specifications are subject to change without notice.

SUNON

Green EC – Case Study

Selected fan

Size (mm)	Model	Bearing	Rated Voltage (VAC)	Freq. (Hz)	Power Current (A)	Power Consumption (W)	Fan Speed (RPM)	Air Flow (CFM / m3/h)	Static Pressure (In-H2O / Pa)	Noise (dB(A))
1070X352	CFAP596PG-10000-IJ9	Ball	3~ 380/480	50/60	2.9	1800	1025	25000 / 42475	1.05* / 262	81



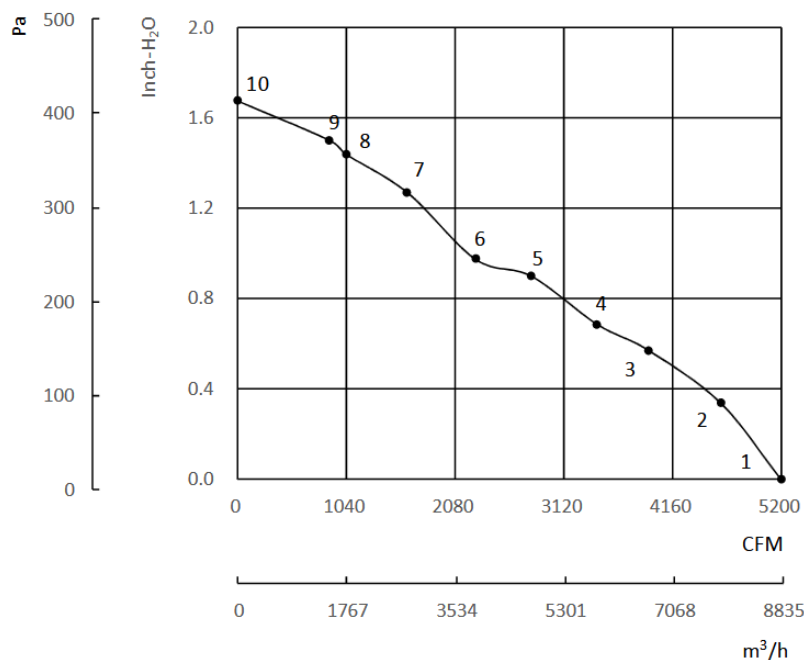
Generator Cooling 60KW

Selected fan

Model	Size	Rated Voltage	Freq.	Power Current	Power Consumption	Fan Speed	Air Flow	Static Pressure
	(mm)	(VAC)	(Hz)	(A)	(W)	(RPM)	(CFM / m3/h)	(In-H2O / Pa)
CFAA349KG-1000U-OJH	656X200	1~ 200-277	50/60	2.35	530	1600	5200 / 8824	1.67 / 419



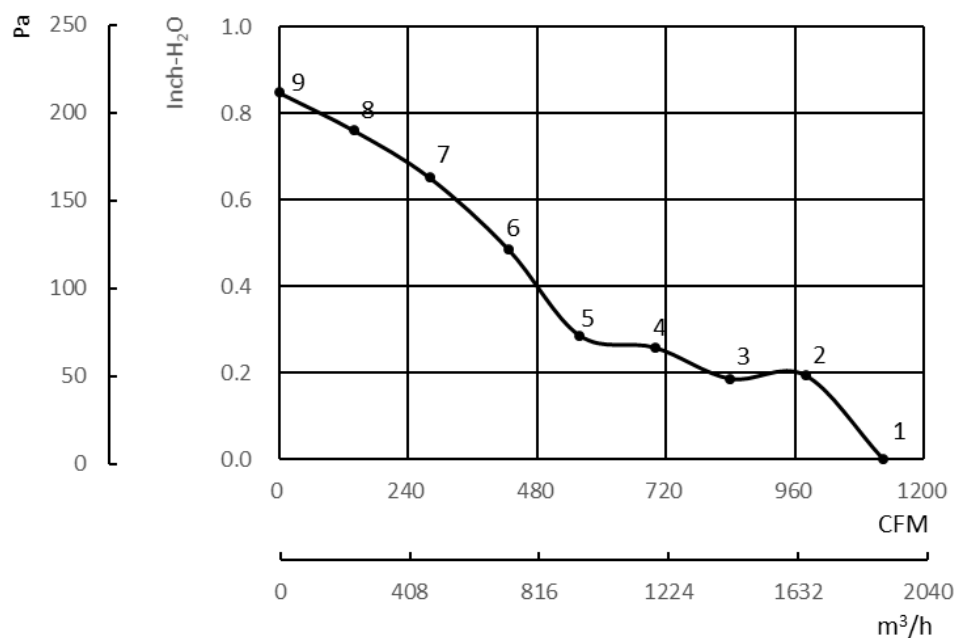
AIR FLOW & STATIC PRESSURE CURVE



Explosion-proof exhaust fan

Selected fan

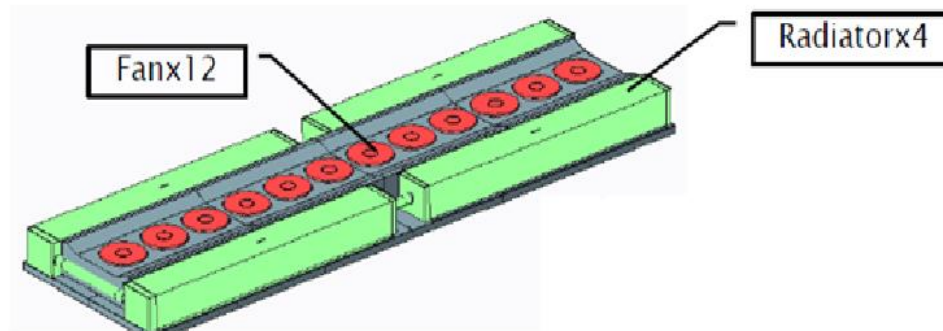
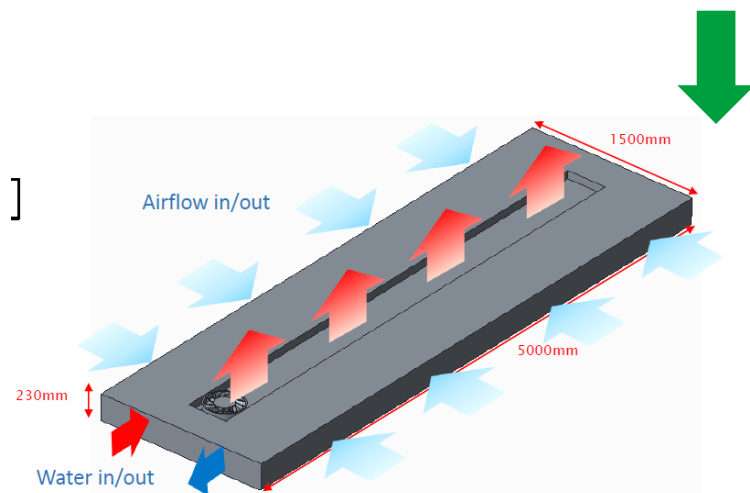
Size (mm)	Model	Bearing	Rated Voltage (VAC)	Freq. (Hz)	Power Current (A)	Power Consumption (W)	Fan Speed (RPM)	Air Flow (CFM / m³/h)	Static Pressure (In-H2O / Pa)	Noise (dB(A))
254x89	CFSP2228D-10000-IJ9	Ball	1~ 200-240	50/60	1.3	160	2570	1200 / 2039	0.85 / 212	73



Energy Storage System



Selected fan : Axial EC330



SUNON

Applications & Target customers

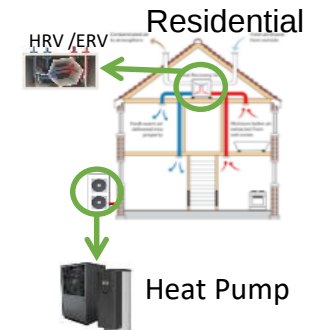
HEAT PUMP HVAC SYSTEM

EC FAN TYPE

- EC centrifugal fans (dimension: 190 to 250mm)
- EC centrifugal fan dimension 600mm
- EC Axial fan

TARGET CUSTOMER LIST

- ARISTON Thermo Group (IT)
- BDR THERMEA (DE DIETRICH) (FR)
- DANTHERM (Denmark)
- DAIKIN – check if design in Europe? Production sites: Czech Republic (Pilsen and Brno) Germany (Güglingen) Turkey (Hendek)
- FLEXIT (Norway)
- GA Entreprise – EQUILAB –FR): HVAC system for building, EC centrifugal fan from PAPST
- GORENJE (Slovenia): residential heat pump
- HELIOS (Germany)
- MAICO (Germany)
- NILAN (Denmark)
- NOVAERUS (Ireland): clean indoor air
- SAUNIER DUVAL (FR)
- SWEGON Group AB (Sweden)
- STULZ (IT)
- VALLOX Oy (Finland)
- VASCO (Belgium) (Arbonia Swiss Group)



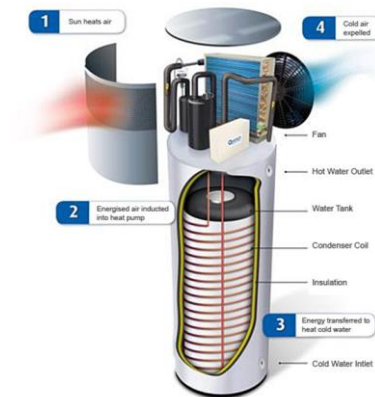
HEAT PUMP WATER HEATER

EC FAN TYPE

- EC fan type: centrifugal dia. 175~225
- Water and dust protection: IP55 level (up to IP68 if needed)

TARGET CUSTOMER LIST

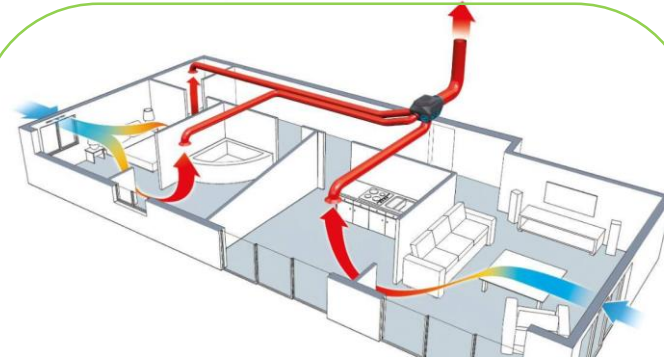
- AUER (FR)
- ATLANTIC (FR)
- ALDES (FR)
- ARISTON Thermo Group (IT)
- BDR THERMEA (DE DIETRICH) (FR)
- GENVEX (DK)
- METROTHERM (DK)
- NIBE (Sweden)
- SAUNIER DUVAL (FR)



EC FAN TYPE

- EC fan type: centrifugal dia. 160~250
- EC axial

- AERECO (FR)
- ALDES (FR)
- ATLANTIC (FR)
- C.L.A.CARPENTERIA LEGGERA (IT)
- EOLIANCE Group (inc. DMO) (FR)
- REHOM S.R.L. (IT)
- SOLAR & PALAU (Spain)
- TECNOSYSTEMI SPA (IT)
- VORTICE S.P.A. (IT)



AIR HANDLING UNIT (AHU) / HEAT RECOVERY UNIT (HRU)



160 /250mm
85/170W



280 ~ 630mm
500W~ 6KW

High Airflow & High Static Pressure
Low Power Consumption & High Efficiency
Low Acoustic Noise
Low vibration
IP54 / IP55
Operating Temperature -25~60°C
PWM or 0-10VDC / Tach
L10 - 40,000hrs Above @40°C
CE/UL/TUV/UKCA/CCC

TARGET CUSTOMER LIST

- AERAULIQA (IT)
- AERTESI S.R.L. (IT)
- AIRMASTER (DK)
- BOSCH (Germany)
- BUDERUS (Germany)
- DANThERM (DK)
- DUCO (NL)
- EXHAUSTO (DK)
- FLEXIT AS (Norway)
- FRAPOL (Poland)
- KLIMOR (Poland)
- KOMFOVENT(Lituania)
- NILAR (DK)
- NUAIR (UK)
- SABIANA (IT)
- SITAL KLIMA INDUSTRIES SRL (IT)
- STIEBEL ELTRON (Germany)
- SWEGON Group AB (Sweden)
- TECNOCLIMA S.P.A. (IT)
- TECNO-VENTIL S.P.A. (IT)
- TITON (UK)
- VENT-AXIA (UK)
- VENTIAIR (Czech)
- VORTICE (Italy)
- VIESSMAN (Germany)
- WEISHAUPt (Germany)
- WOLF (Germany)



**Heat Recovery Ventilation (HRV) /
Energy recovery ventilation (ERV)**



Air Handling Unit (AHU)



CHILLER

EC FAN TYPE

- EC AXIAL FAN 450mm with grid (single phase 220VAC)
- EC AXIAL FAN 500mm with grid
- EC AXIAL FAN 630mm with grid (3 phases 380VAC)
- EC AXIAL FAN 800mm with grid (3 phase 380VAC)



710/800/910 mm
2.2~3.6kW

High Airflow & High Static Pressure
Low Power Consumption & High Efficiency
Low Acoustic Noise
Low vibration
IP54 / IP55
Operating Temperature -40~60°C
PWM or 0-10VDC / Tach / MODBUS
L10 - 40,000hrs Above @40°C
CE/UL/TUV/UKCA/CCC

TARGET CUSTOMER LIST

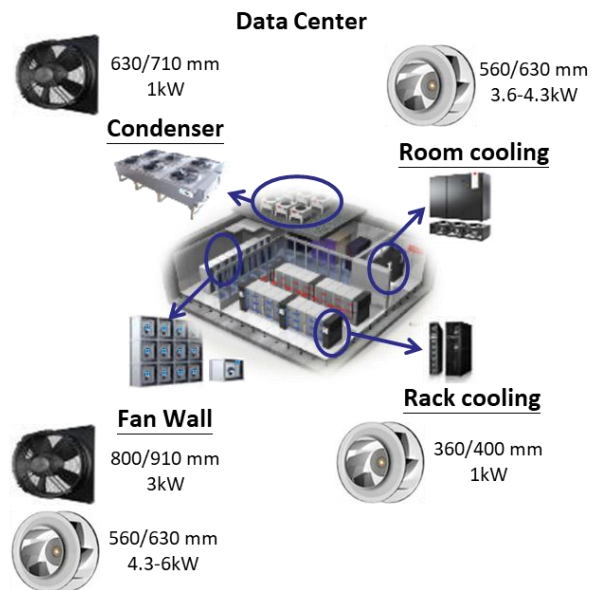
- AERMEC (IT)
- ALI GROUP S.R.L (IT)
- CLA S.r.l. (UTEK) (Italy)
- Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A. (MEHITS) (Italy)
- LENNOX HVAC (France): EC axial fan for air cooled condenser
- RITTAL – KELVIN Srl (IT)
- SABIANA (IT)
- SCHNEIDER (FR)

Axial fan air cooled condenser



TELECOM / SERVER / DATA CENTER

EC FAN TYPE



Standard Product
High Airflow & Low Power Consumption
Low vibration
Active Power Factor Correction
Operating Temperature -25~40C
PWM or 0-10VDC / Tach / MODBUS
L10 - 40,000hrs Above @40C
CE/UL/TUV/UKCA/CCC

TARGET CUSTOMER LIST

- AIREDALE (UK)
- nVent Shroff (Germany)
- RITTAL – KELVIN Srl (IT)
- SCHNEIDER ELECTRIC (FR)
- STULZ (IT)
- VERTIV S.r.l. (Italy): check if design?



Chilled Water Unit
EC fans, Upflow, 20-
170 kW

Renewable energy / ESS / EV charging

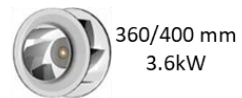
EC FAN TYPE



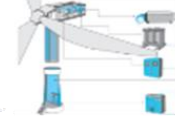
PV Inverter



ESS /MVD



Wind Power



EV Charger



Customization

High Pressure & Low Power Consumption

IP55, Harsh corrosion C5H level

High endurance (surge, HVRT, LVRT)

Operating Temperature -40~60(70)C

PWM or 0-10VDC / Tach /MODBUS

L10 - 60,000hrs Above @40C

CE/UL/TUV/UKCA/CCC

TARGET CUSTOMER LIST

- ABB E-Mobility (IT)
- INGETEAM (Spain)
- KK WIND SOLUTIONS (Denmark)
- SIEMENS EV
- Siemens Gamesa Renewable Energy
- SMA (Germany)

COMMERCIAL REFRIGERATION

EC FAN TYPE



120x38mm



250x78 ~ 280x78mm

Refrigerator



High Airflow & Low Power Consumption
Low Acoustic Noise
Low vibration
IP21~IP68
Operating Temperature -40~70C
PWM or 0-10VDC / Tach
L10 - 40,000hrs Above @40C
CE/UL/TUV/UKCA/CCC
ATEX / EN 60335 -2-89

TARGET CUSTOMER LIST

- DE CONTO GRANDI IMPIANTI (IT)
- Efficold (Onnera Group) (Spain)
- EPTA Group – Costan (IT)
- EXKAL (Spain)
- Infrico (Spain)
- Intarcon (Spain)
- Jordao (Portugal)
- Mercatus (Portugal)
- Olitrem (Portugal)

SUNON Marketing

EXHIBITIONS

SUNON GREEN EC SHOWCASE



SUNON AS VISITOR



SUNON AS EXHIBITOR



Q&A

1. Pricing – can we share any estimates? How will the pricing compare to ebm and lower cost such as AFL
2. Performance comparison – how do we compare on PQ and energy vs ebm?
3. USP – what are our unique selling points? Why should customer consider and spend resource evaluating Sunon?
4. Will Sunon be offering technical training webinar?
5. Will ERP data be included in EC DS?
6. Will ATEX be available for these EC?

Thanks

for Your Attention!!

For more information please contact your local SUNON sales office
or visit sunon website: www.sunon.com



WWW.SUNON.COM

SUNON®