Product overview

GreenTech EC axial fans

EC axial compact fans, in particular our new AxiACi series, stand for flexibility, high efficiency and enable a wide range of applications.

The wide voltage possible in EC axial compact fans reduces the logistics costs and warehousing, as the fan, regardless of the line voltage, can be used with its specified values: without switching, the EC axial fan adapts to every power supply – from 90 to 264 VAC at line frequencies of 50 and 60 Hz. Voltage fluctuations in the power system are automatically compensated for.

Unlike conventional AC technology, the state-of-the-art drive concept of this fan series is not linked to a fixed power frequency. EC axial compact fans therefore offer a significantly higher air flow and a significant pressure increase.

The extremely quiet and highly efficient motor impresses with its long service life and is equally suitable for use in technologically demanding new projects and as a replacement for obsolete AC solutions.

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engineering a better life

Type code example: VWCL119PJGJZ

V	W	C	L	119	P	J	G	J	Z
Product category	Product type Airflow direction	Product version	Oerall length	Size [mm]	Brand name	Motor	Motor size / Diameter	Air flow level	Standard

Dimensions in mm	Type	Type (old)	Page
☐ 80 x 32	**VWCE080ASJHS**	AC 8300	272
☐ 92 x 38	**VWCJ092JSGKS**	AC 3200 J	274
☐ 92 x 38	**VWCF092D...**	AxiACi 92	276
☐ 119 x 25	**VWCH119FSJMS**	AC 4400 FN	278
☐ 119 x 38	**VWCF119D...**	AxiACi 120	280
☐ 119 x 38	**VWCF119YSGLS**	ACi 4400	282
Ø 172 x 51	**VWEK172XSLPS**	AC 6200 N	284
Ø 130	**VWEH151X...**	W1G 130	286
Ø 200	**VWLJ225X...**	W3G 200	288
Ø 250	**VWLK280X...**	W3G 250	290
Ø 98,5 x 130	**VUS0092XSGBS**	AC 100	292

GreenTech EC axial fans

Progress made by ebm-papst.
The best example: Greentech EC axial fans from ebm-papst.

Our latest fans in the AxiACi series stand for flexibility, high efficiency and enable a wide range of applications ranging from cooling and ICT applications to switch cabinet cooling. The best – all in the same dimensions as conventional AC fans. The extremely quiet and highly efficient motor impresses with its long service life and is the perfect replacement for obsolete AC solutions in particular. The wide voltage range (90-264 VAC) and operating temperatures of up to -40°C (also when starting) also offer a practical solution. Our GreenTech EC axial compact fans are available up to IP65 as an option and, thanks to corresponding certificates, are also suitable for use with natural refrigerants.

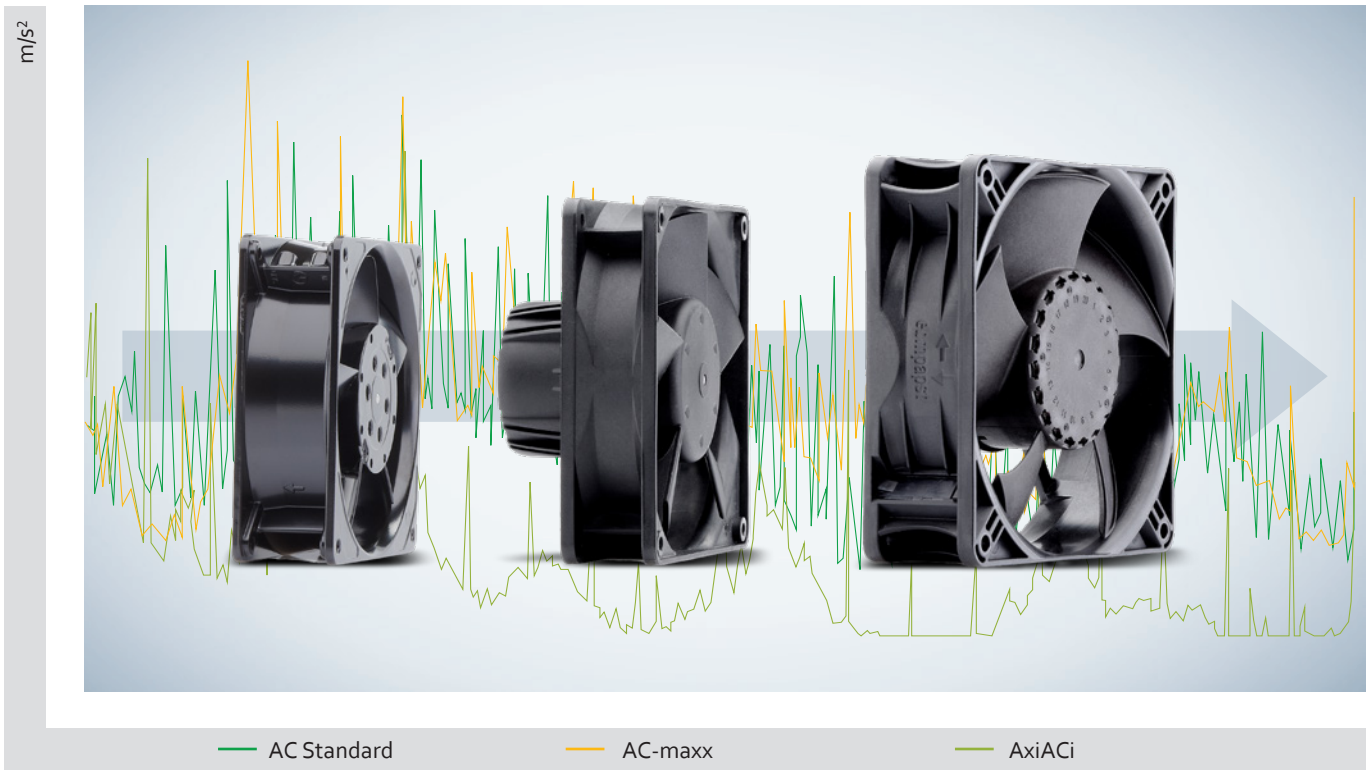
Many years of experience, quality and continuous product improvement

Better, in the same size. Our products have been developed for many years and have been optimized to meet your requirements. Our new generation of GreenTech EC axial compact fans offer a wealth of advantages in the same dimensions as conventional AC fans. This makes switching your applications to the new fans much easier.

Quiet is not always quiet when psychoacoustic, subjective noise characteristics are at play.

As well as increasing efficiency, one of our main objectives when further developing the pure AC fan series into our AxiACi series is significantly reducing noise as much possible – both in the aerodynamics and in the motor. In terms of aerodynamics, we achieve this with perfectly designed and coordinated fan housing/fan impeller combinations. A motor always generates vibrations that are transmitted to your application. In the worst-case scenario, in sound-wave form, these are considered disruptive. In the development phase, this structure-borne noise is difficult to predict and varies from application to application. Our aim is to develop motors with as little structure-borne noise as possible so that this problem does not occur in the first place. With our AxiACi motor technology, we have succeeded.

If we look at the sum of the acceleration levels, ACmaxx and AC 4656N are comparable. However, AxiACi120 has a noticeable lower base level and also significantly lower peaks during acceleration amplitudes and therefore its structure-borne noise is much less intrusive. As a result, it also offers noise benefits for sensitive applications.



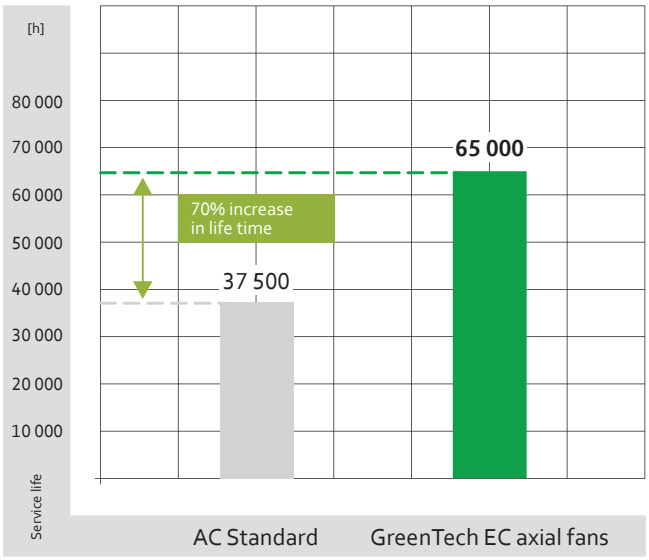
Progress made by ebm-papst
That means for you:

Cost optimization

- **Lower energy costs due to greater efficiency**
  A drive concept based on state-of-the-art GreenTech EC technology with outstanding motor efficiency level. The energy consumption is up to 80 % lower than in AC fans of the same size. The energy savings alone mean that the products pay for themselves after only a few months. The savings made over the entire service life, especially in systems with multiple fans, are worth it.

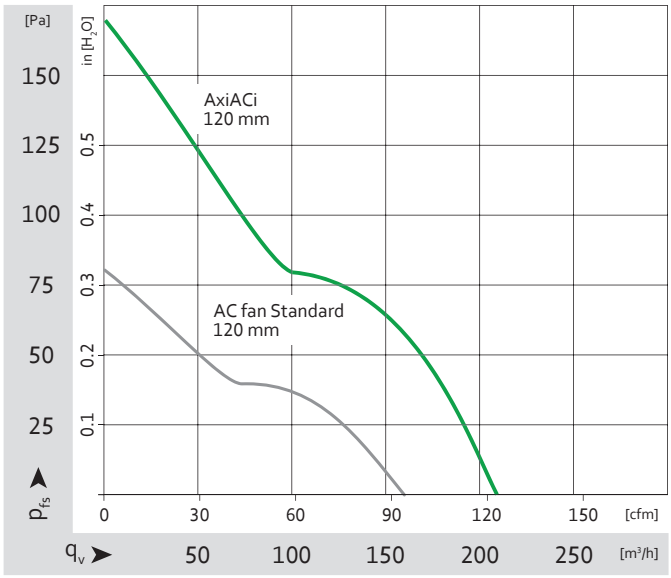
- **Reduction in logistics costs as independent from line frequency and line voltage**
  The GreenTech EC axial compact fans are prepared for direct connection to all AC voltages and frequencies thanks to the "wide voltage capability" of the fan. A certain speed version can be operated worldwide, regardless of the 110 VAC or 230 VAC power supply. Voltage and frequency fluctuations during the power supply operation are compensated automatically. This reduces logistics costs and makes warehousing easier.

- **Long service life**
  The efficiency of GreenTech EC axial compact fans is up to 75% greater than that of conventional AC fans. This not only saves energy, it also means that the motor heats itself up less. The bearing system in particular responds positively to heating itself up less: the reason why the fans have a service life that is up to 70 % longer! This also extends the service and maintenance intervals significantly. Investments in replacement fans and downtimes, which are even more expensive, remain small enough to manage.



Higher performance

Unlike conventional AC technology, the state-of-the-art drive concept of this fan series is not linked to a fixed power frequency. This allows the motor speed to be increased over a wide range. This enables significantly higher air flow rates and significant pressure increases.



Flexibility and countless possible uses

- IP65 provides protection against harmful environmental influences and harsh operating conditions
- Natural refrigerant? No problem!
  Safety approvals according to DIN EN 60335-2-89, 60335-2-24, DIN EN 60079-7 enable use with natural, explosive refrigerants
- Everything is possible, from standby mode, overload mode at peak times or night reduction to temperature-controlled, quiet operation. From speed monitoring to long-term function monitoring via alarm or speed signal, the fans offer optional interfaces that allow easy and quick implementation of operational monitoring.
- Further information on these fan options can be found in the chapter "DC compact fan specials" on page 252.
- Or you can simply talk to our application engineers about the ideal GreenTech EC axial compact fan for you.

VWCE080ASJHS

GreenTech EC axial fans · max. 80 m³/h · ☐ 80 x 32 mm

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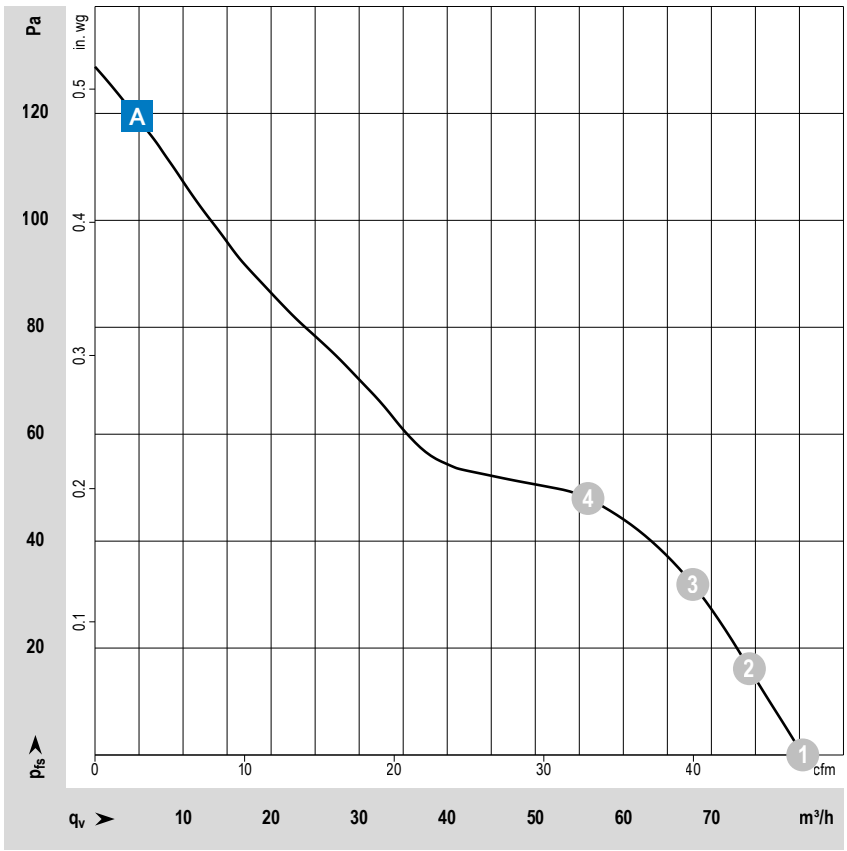
from page 350	Accessories
more at	www.ebmpapst.com



Material/Surface

- Housing: Plastic
- Impeller: Plastic

Characteristics

- Version: Efficient AC fan, suitable for use world-wide thanks to wide voltage
- Direction of air flow: exhaust over struts
- Direction of rotation: clockwise, looking towards rotor
- Installation position: any
- Bearing: Ball bearings
- Operating mode: Continuous operation (S1)
- IP protection class: IP20
- Electrical hookup: Via single wires AWG 22
- Electrical protection class: III
- Weight: 325 g

Approvals

- DIN EN 62368, UL507, CSA C22.2 Nr. 113, EAC, CE, UKCA

Options

- Speed signal
- Go / NoGo alarm
- Alarm with speed limit
- External temperature sensor
- Internal temperature sensor
- PWM control input
- Analog control input
- Moisture protection
- Salt spray protection
- Degree of protection: IP65

Measuring conditions

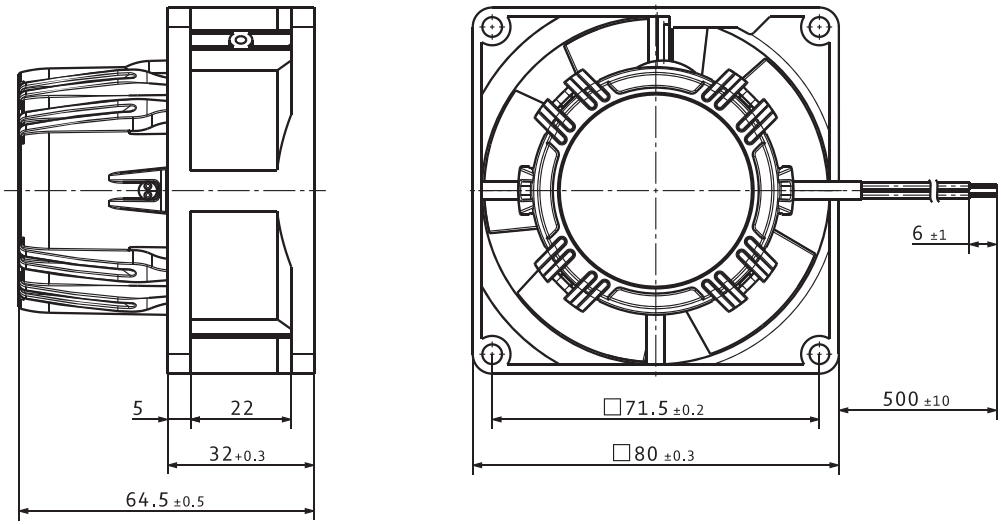
Air performance measured according to: ISO 5801. Installation category A, without contact protection.
Noise: Total sound $p_A$wer level LWA ISO 10302 measured on a hemisphere with a radius of 2 m. Sound pressure level LpA measured at 1 m distance from fan axis. The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked after installation!
For detailed information see http://www.ebmpapst.com/general conditions

Voltage range 90…264 VAC		Nominal voltage	Frequency	Characteristic curve	Operating point	Air flow	Air flow	Speed	Power consumption	Sound power level	Sound pressure (free air flow)	Perm. ambient temperature	Service life L_{10} (40 °C) ebmpapst standard	Life expectancy L_{10PC} (40 °C) s. p. 11
		VAC	Hz			m³/h	cfm	rpm	W	Bel(A)	dB(A)	°C	Hours	Hours
Type / Type old	Part number													
VWCE080ASJHS AC 8300 H	**9204305004**	**100…240**	50/60	A	1 2 3 4	80 74 68 56	47 44 40 33	5 000 5 000 5 020 5 060	8.2 8.3 8.4 8.2	6.6 6.5 6.4 6.3	48	-20…+75	55 000	92 500

Subject to changes. Speed variants available on request.

Technical drawing

Dimensions in mm



VWCJ092JSGKS

GreenTech EC axial fans · max. 144 m³/h · ☐ 92 x 38 mm

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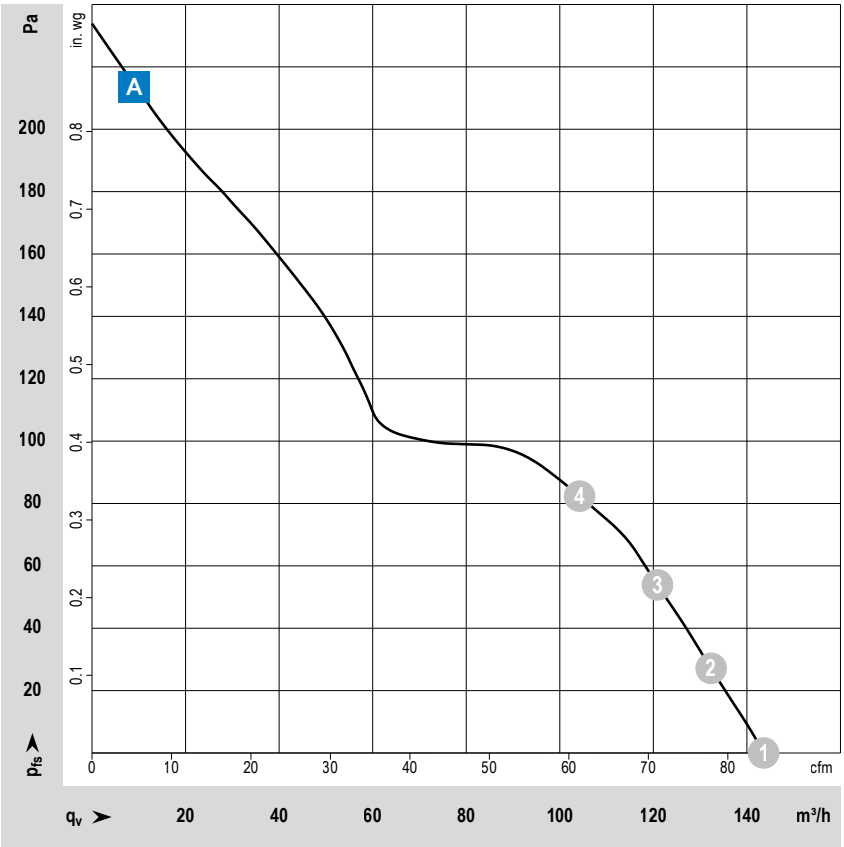
more at	www.ebmpapst.com



Material/Surface

- Housing: Plastic
- Impeller: Plastic

Characteristics

- Version: Efficient AC fan, suitable for use world-wide thanks to wide voltage
- Direction of air flow: exhaust over struts
- Direction of rotation: clockwise, looking towards rotor
- Installation position: any
- Bearing: Ball bearings
- Operating mode: Continuous operation (S1)
- IP protection class: IP20
- Electrical hookup: Via single wires AWG 22
- Electrical protection class: III
- Weight: 325 g

Approvals

- UL507, CSA22.3, VDE0805, CCC, EAC

Options

- Speed signal
- Go / NoGo alarm
- Alarm with speed limit
- External temperature sensor
- Internal temperature sensor
- PWM control input
- Analog control input
- Moisture protection
- Salt spray protection
- Degree of protection: IP65

Measuring conditions

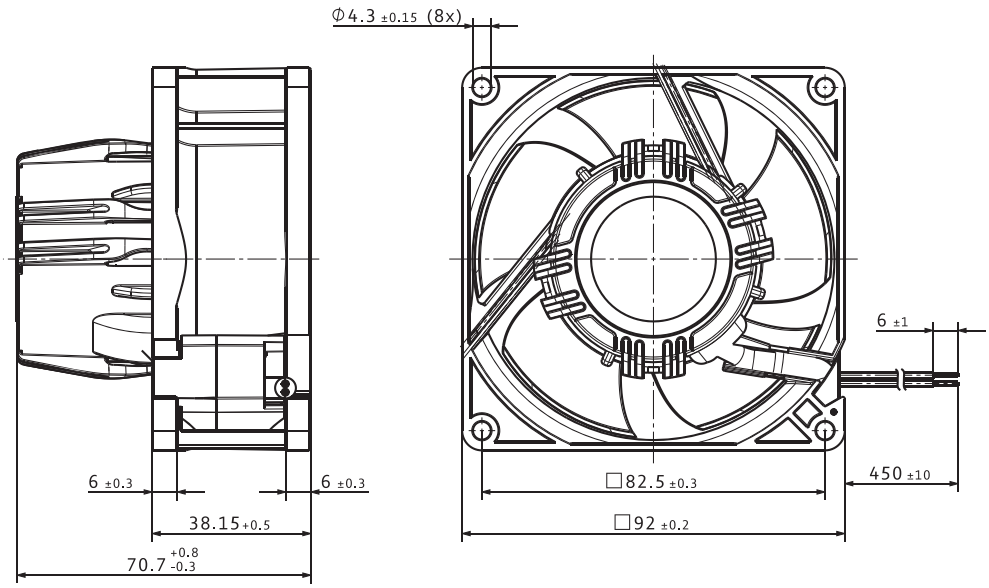
Air performance measured according to: ISO 5801. Installation category A, without contact protection.
Noise: Total sound $p_A$wer level LWA ISO 10302 measured on a hemisphere with a radius of 2 m. Sound pressure level LpA measured at 1 m distance from fan axis. The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked after installation!
For detailed information see http://www.ebmpapst.com/general conditions

Voltage range 85…265 VAC		Nominal voltage	Frequency	Characteristic curve	Operating point	Air flow	Air flow	Speed	Power consumption	Sound power level	Sound pressure (free air flow)	Perm. ambient temperature	Service life L_{10} (40 °C) ebmpapst standard	Life expectancy L_{10PC} (40 °C) s. p. 11
		VAC	Hz			m³/h	cfm	rpm	W	Bel(A)	dB(A)	°C	Hours	Hours
Type / Type old	Part number													
VWCJ092JSGKS AC 3200 JH	9203510002	100…240	50/60	A	1	144	85	6 800	10.7	6.8	55	-20…+70	70 000	117 500
					2	132	78	6 680	11.3	6.7				
					3	121	71	6 580	11.7	6.6				
					4	104	61	6 470	12.3	6.4				

Subject to changes. Speed variants available on request.

Technical drawing

Dimensions in mm



VWCF092D...

GreenTech EC axial fans · max. 92 m³/h · ☐ 92 x 38 mm

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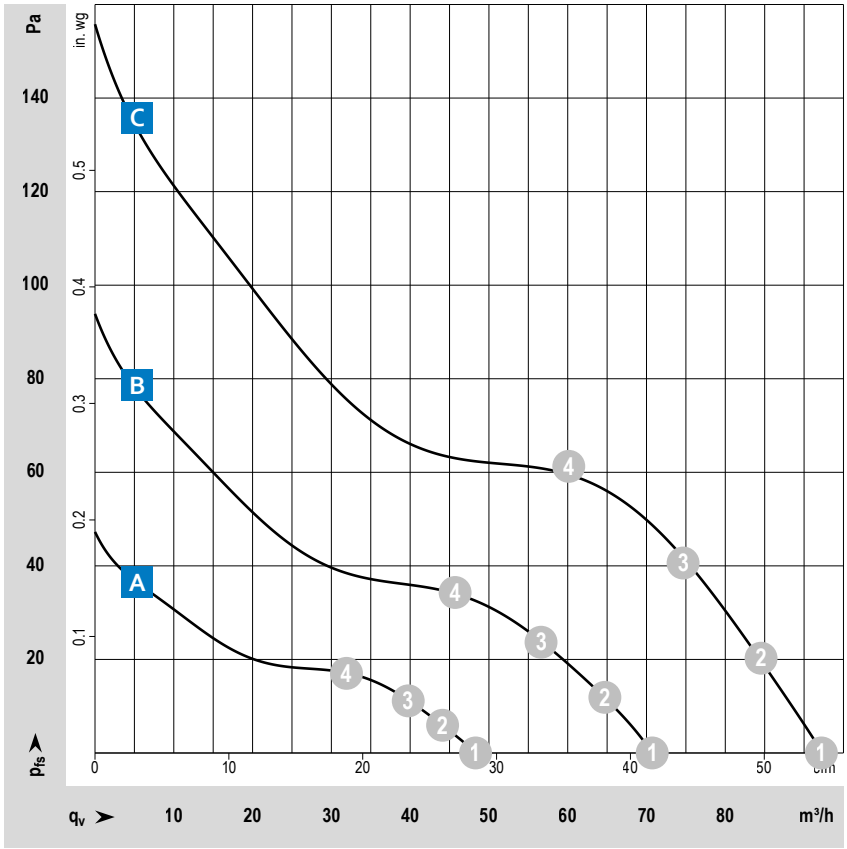
more at	www.ebmpapst.com



Material/Surface

- Housing: Plastic
- Impeller: Plastic

Characteristics

- Version: Efficient and compact latest-generation AC fan, suitable for use worldwide thanks to wide voltage
- Direction of air flow: exhaust over struts
- Direction of rotation: counterclockwise
- Installation position: any
- Bearing: Ball bearings
- Operating mode: Continuous operation (S1)
- IP protection class: IP20
- Electrical hookup: via cable 310mm, AWG 20
- Electrical protection class: III
- Weight:235 g

Approvals

- Approvals: DIN EN 62368, UL507, CSA C22.2 Nr. 113, EAC, CE, UKCA
- optional: EN 60335-1, 60335-2-24, 60335-2-89; DIN EN 60079-7, Group IIA, T4

Options

- Salt spray protection
- Degree of protection: IP65

Measuring conditions

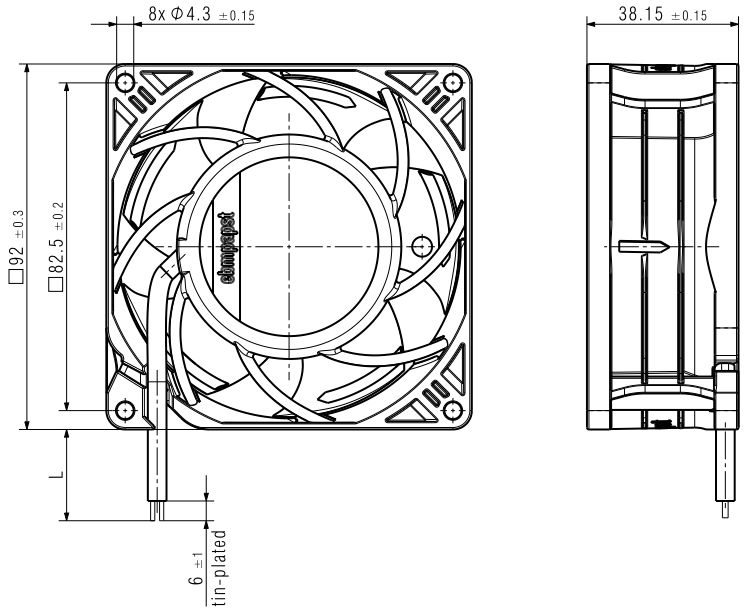
Air performance measured according to: ISO 5801. Installation category A, without contact protection.
Noise: Total sound $p_A$wer level LWA ISO 10302 measured on a hemisphere with a radius of 2 m. Sound pressure level LpA measured at 1 m distance from fan axis. The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked after installation!
For detailed information see http://www.ebmpapst.com/general conditions

Type / Type old	Part number	Nominal voltage	Frequency	Characteristic curve	Operating point	Air flow	Air flow	Speed	Power consumption	Sound power level	Sound pressure (free air flow)	Perm. ambient temperature	Service life L_{10} (40 °C) ebm-papst standard	Life expectancy L_{10PC} (40 °C) s. p. 11
Voltage range 90...264 VAC		VAC	Hz			m³/h	cfm	rpm	W	Bel(A)	dB(A)	°C	Hours	Hours
VWCF092DSGGS AxiACi92R	**8315100281**	**100...240**	50/60	C	1	48.3	28.4	2 500	1.4	4.2	31	-40...+75	65 000	110 000
					2	44.4	26.1	2 500	1.5	4.2				
					3	39.5	23.2	2 500	1.5	4.2				
					4	31.9	18.8	2 500	1.5	4.2				
VWCF092DSGHS AxiACi92R	**8315100282**	**100...240**	50/60	B	1	71.0	41.8	3 500	2.4	4.7	37	-40...+75	65 000	110 000
					2	65.0	38.3	3 500	2.5	4.7				
					3	57.0	33.5	3 500	2.6	4.7				
					4	45.5	26.8	3 500	2.7	4.7				
VWCF092DSGJS AxiACi92R	**8315100283**	**100...240**	50/60	A	1	92.0	54.1	4 500	3.8	5.4	44	-40...+75	65 000	110 000
					2	84.0	49.4	4 500	4.2	5.4				
					3	75.0	44.1	4 500	4.6	5.3				
					4	60.0	35.3	4 500	4.8	5.2				

Subject to changes.

Technical drawing

Dimensions in mm



VWCH119FSJMS

GreenTech EC axial fans · max. 201 m³/h · ☐ 119 x 25 mm

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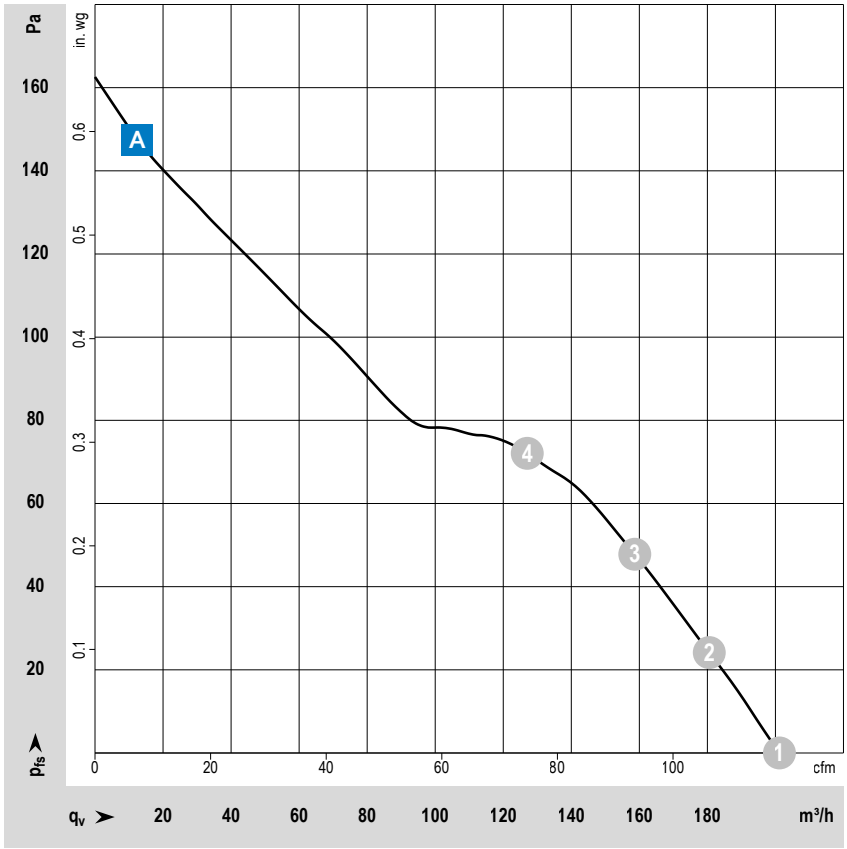
more at	www.ebmpapst.com



Material/Surface

- Housing: Plastic
- Impeller: Plastic

Characteristics

- Version: Efficient AC fan, suitable for use world-wide thanks to wide voltage
- Direction of air flow: exhaust over struts
- Direction of rotation: counterclockwise, looking towards rotor
- Installation position: any
- Bearing: Ball bearings
- Operating mode: Continuous operation (S1)
- IP protection class: IP20
- Electrical hookup:
  Via single wires AWG 22
- Electrical protection class: III
- Weight: 370 g

Approvals

- DIN EN 62368, UL507, CSA C22.2 Nr. 113, EAC, CE, UKCA

Options

- Speed signal
- Go / NoGo alarm
- Alarm with speed limit
- External temperature sensor
- Internal temperature sensor
- PWM control input
- Analog control input
- Moisture protection

Measuring conditions

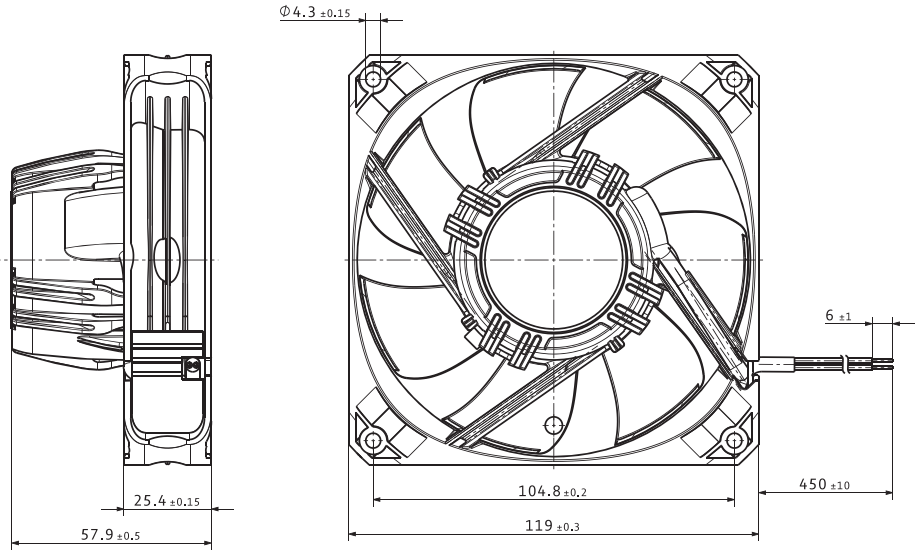
Air performance measured according to: ISO 5801. Installation category A, without contact protection.
Noise: Total sound p_{ower} level LWA ISO 10302 measured on a hemisphere with a radius of 2 m. Sound pressure level LpA measured at 1 m distance from fan axis. The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked after installation!
For detailed information see http://www.ebmpapst.com/general conditions

Type / Type old	Part number	Nominal voltage	Frequency	Characteristic curve	Operating point	Air flow	Air flow	Speed	Power consumption	Sound power level	Sound pressure (free air flow)	Perm. ambient temperature	Service life L_{10} (40 °C) ebm-papst standard	Life expectancy L_{10PC} (40 °C) s. p. 11
Voltage range 90…264 VAC		VAC	Hz			m³/h	cfm	rpm	W	Bel(A)	dB(A)	°C	Hours	Hours
VWCH119FSJMS AC 4400 FNN	**9204307001**	**100…240**	50/60	A	1	201	118	4 850	11.4	6.6	53	-20…+70	60 000	102 500
					2	180	106	4 730	12.3	6.5				
					3	159	94	4 610	13.0	6.3				
					4	127	75	4 530	13.4	6.2				

Subject to changes. Speed variants available on request.

Technical drawing

Dimensions in mm



VWCF119D...

GreenTech EC axial fans · max. 175 m³/h · ☐ 119 x 38 mm

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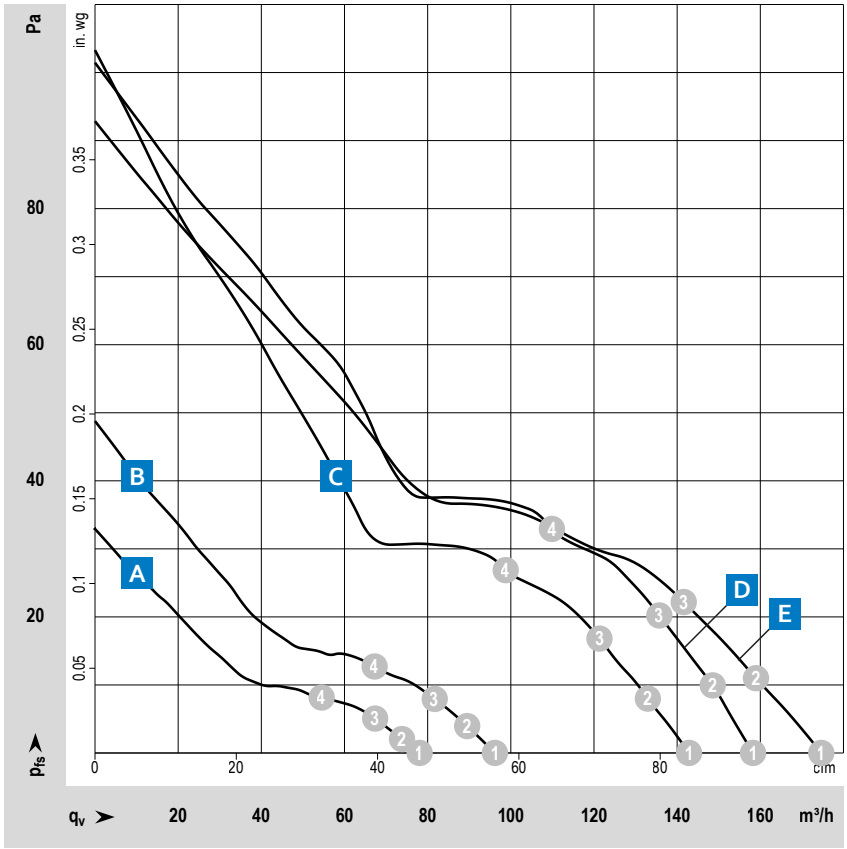
more at	www.ebmpapst.com



Material/Surface

- Housing: Plastic
- Impeller: Plastic

Characteristics

- Version: Efficient and compact latest-generation AC fan, suitable for use worldwide thanks to wide voltage
- Direction of air flow: exhaust over struts
- Direction of rotation: clockwise, looking towards rotor
- Installation position: any
- Bearing: Ball bearings
- Operating mode: Continuous operation (S1)
- IP protection class: IP20
- Electrical hookup: via single wires (AWG 24)
- Electrical protection class: III
- Weight: 250 g

Approvals

- DIN EN 62368, UL507, CSA C22.2 Nr. 113, EAC, CE, UKCA
- optional: EN 60335-1, 60335-2-24, 60335-2-89; DIN EN 60079-7, Group IIA, T4

Options

- Salt spray protection
- Degree of protection: IP65

Measuring conditions

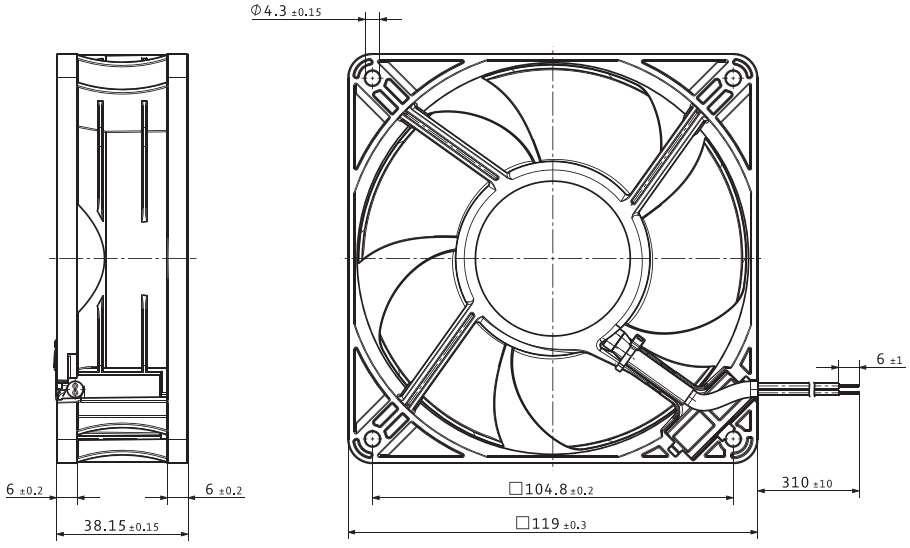
Air performance measured according to: ISO 5801. Installation category A, without contact protection.
Noise: Total sound $p_{\ddot{o}}$wer level LWA ISO 10302 measured on a hemisphere with a radius of 2 m. Sound pressure level LpA measured at 1 m distance from fan axis. The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked after installation!
For detailed information see http://www.ebmpapst.com/general conditions

Type / Type old	Part number	Nominal voltage	Frequency	Characteristic curve	Operating point	Air flow	Air flow	Speed	Power consumption	Sound power level	Sound pressure (free air flow)	Perm. ambient temperature	Service life L_{10} (40 °C) ebm-papst standard	Life expectancy L_{10PC} (40 °C) s. p. 11
Voltage range 90...264 VAC		VAC	Hz			m³/h	cfm	rpm	W	Bel(A)	dB(A)	°C	Hours	Hours
VWCF119DSGHS AxiACi120LR	**8315100216**	**100...240**	50/60	A	1	78	46	1 500	1.4	3.6	23	-40...+75	65 000	110 000
					2	73	43	1 500	1.5	3.5				
					3	67	39	1 500	1.5	3.3				
					4	54	32	1 510	1.5	3.5				
VWCF119DSGJS AxiACi120MLR	**8315100215**	**100...240**	50/60	B	1	96	57	1 850	1.5	4.2	25	-40...+75	65 000	110 000
					2	90	53	1 840	1.6	4.0				
					3	82	48	1 840	1.7	3.9				
					4	68	40	1 850	1.9	4.0				
VWCF119DSGKS AxiACi120NR	**8315100214**	**100...240**	50/60	C	1	143	84	2 700	3.0	5.2	36	-40...+75	65 000	110 000
					2	133	78	2 690	3.4	5.1				
					3	122	72	2 690	3.7	5.0				
					4	99	58	2 690	4.3	5.0				
VWCF119DSGLS AxiACi120HR	**8315100213**	**100...240**	50/60	D	1	158	93	3 000	3.9	5.4	39	-40...+70	65 000	110 000
					2	149	88	3 000	4.4	5.4				
					3	135	79	3 000	4.9	5.4				
					4	110	65	3 000	5.6	5.2				
VWCF119DSGLS AxiACi120HHR	**8315100206**	**100...240**	50/60	E	1	175	103	3 300	4.4	5.6	43	-40...+70	65 000	110 000
					2	159	94	3 240	4.9	5.5				
					3	141	83	3 180	5.2	5.3				
					4	110	65	3 110	5.6	5.4				

Subject to changes.

Technical drawing

Dimensions in mm



VWCF119YSGLS

GreenTech EC axial fans · max. 178 m³/h · ☐ 119 x 38 mm

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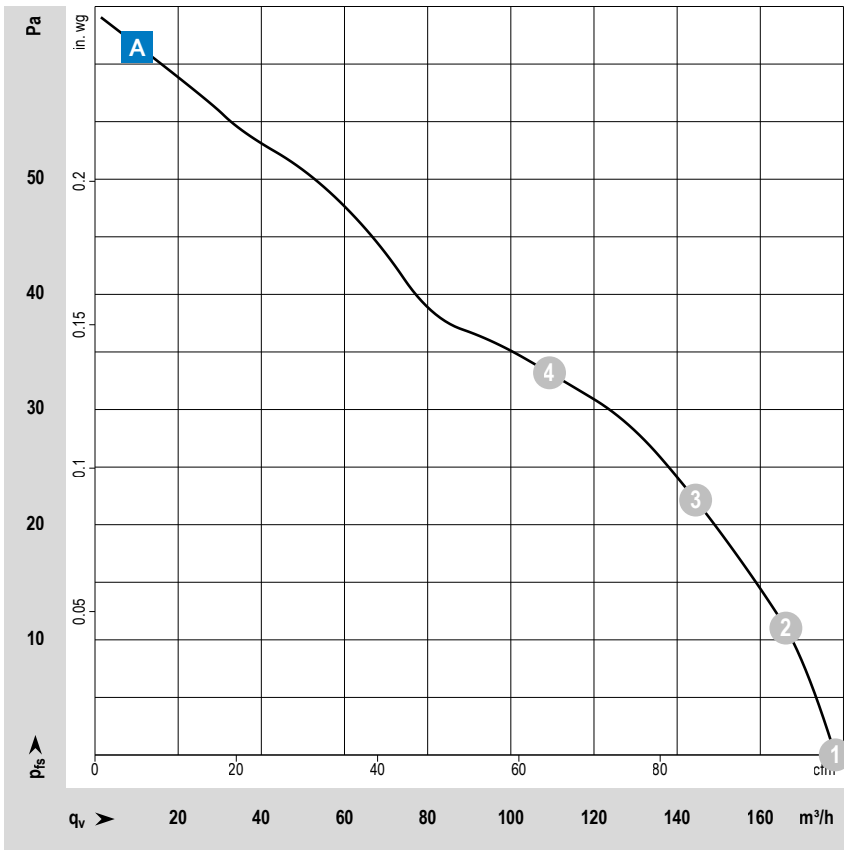
from page 350	Accessories
more at	www.ebmpapst.com



Material/Surface

- Housing: Plastic
- Impeller: Plastic

Characteristics

- Version: Efficient and compact latest-generation AC fan, suitable for use worldwide thanks to wide voltage
- Direction of air flow: exhaust over struts
- Direction of rotation: clockwise, looking towards rotor
- Installation position: any
- Bearing: Ball bearings
- Operating mode: Continuous operation (S1)
- IP protection class: IP20
- Electrical hookup: via single wires (AWG 24)
- Electrical protection class: III
- Weight: 250 g

Approvals

- DIN EN 62368, UL507, CSA C22.2 Nr. 113, EAC, CE, UKCA
- optional: EN 60335-1, 60335-2-24, 60335-2-89; DIN EN 60079-7, Group IIA, T4

Options

- Speed signal
- PWM control input
- Analog control input
- Moisture protection
- Salt spray protection
- Degree of protection: IP65
- Approval for refrigeration products acc. to EN60335-24 / EN60335-89 and ATEX acc. to EN60079-15

Measuring conditions

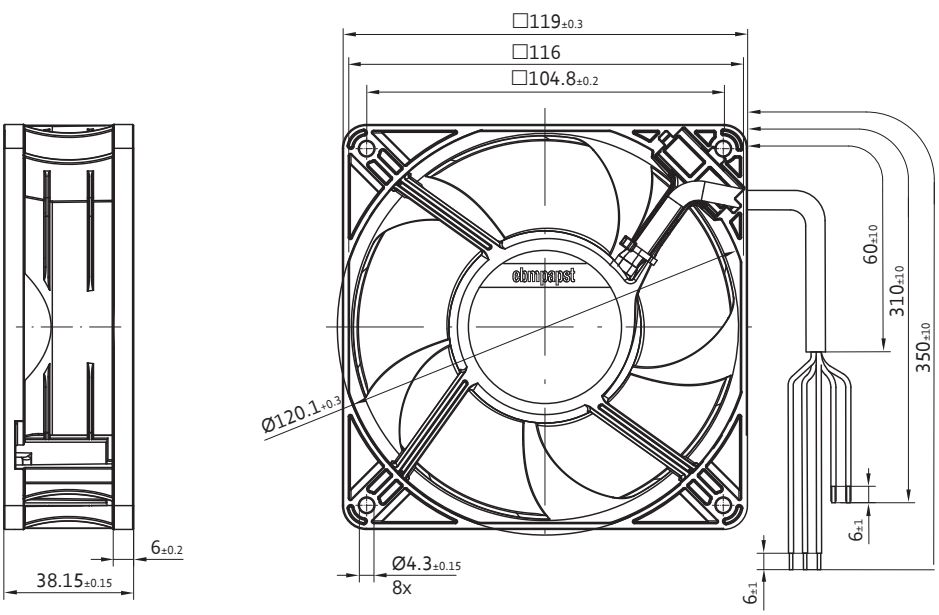
Air performance measured according to: ISO 5801. Installation category A, without contact protection.
Noise: Total sound $p_A$wer level LWA ISO 10302 measured on a hemisphere with a radius of 2 m. Sound pressure level LpA measured at 1 m distance from fan axis. The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked after installation!
For detailed information see http://www.ebmpapst.com/general conditions

Type / Type old	Part number	Nominal voltage	Frequency	Characteristic curve	Operating point	Air flow	Air flow	Speed	Power consumption	Sound power level	Sound pressure (free air flow)	Perm. ambient temperature	Service life L_{10} (40 °C) ebm-papst standard	Life expectancy L_{10PC} (40 °C) s. p. 11
Voltage range 90…264 VAC		VAC	Hz			m³/h	cfm	rpm	W	Bel(A)	dB(A)	°C	Hours	Hours
VWCF119YSGLS ACi 4400 HHAU	**9203509300**	**100…240**	50/60	A	1	181	107	3 300	4.8	5.5	43	-40…+75	65 000	110 000
					2	162	95	3 190	5.1	5.3				
					3	141	83	3 080	5.4	5.1				
					4	107	63	2 970	5.8	5.2				
VWCF119YSGLS ACi 4400/2 HHPU	**8315100017**	**100…240**	50/60	A	1	178	105	3 300	4.8	5.5	43	-40…+75	65 000	110 000
					2	166	98	3 260	5.3	5.3				
					3	144	85	3 150	5.7	5.1				
					4	109	64	3 033	6.0	5.2				

Subject to changes.

Technical drawing

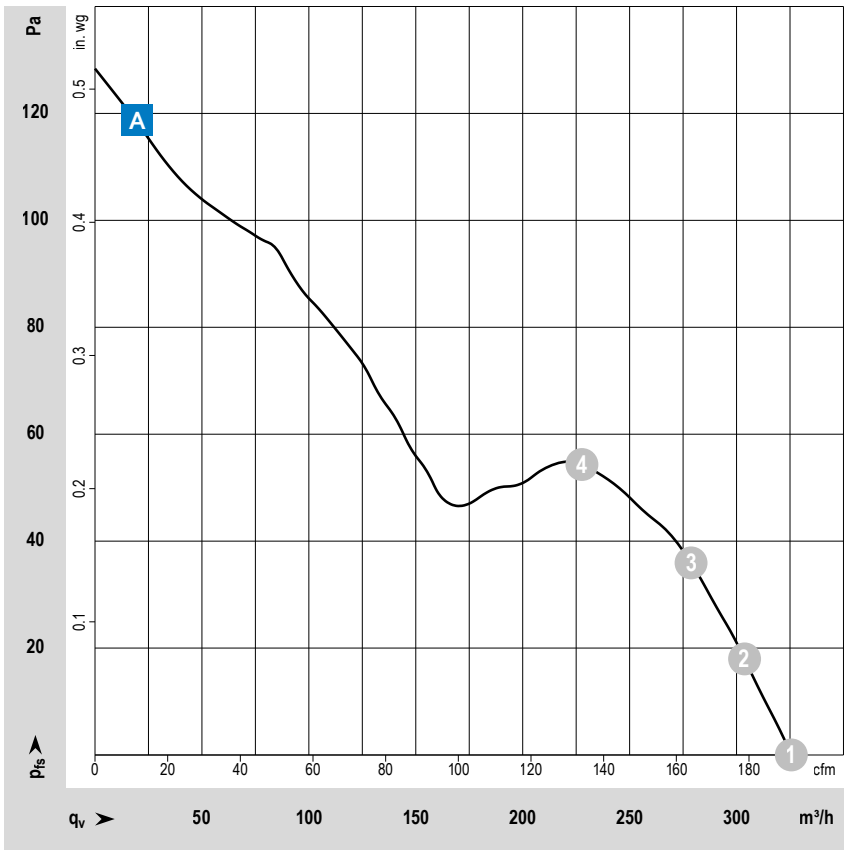
Dimensions in mm



VWEK172XSLPS

GreenTech EC axial fans · max. 326 m³/h · Ø 172 x 51 mm

from page 14	Definitions
from page 350	Accessories
more at	www.ebmpapst.com



Material/Surface

- Housing: Metal
- Impeller: Plastic

Characteristics

- Version: Efficient AC fan, suitable for use world-wide thanks to wide voltage
- Direction of air flow: exhaust over struts
- Direction of rotation: counterclockwise, looking towards rotor
- Installation position: any
- Bearing: Ball bearings
- Operating mode: Continuous operation (S1)
- IP protection class: IP20
- Electrical hookup: Via single wires AWG 22
- Electrical protection class: III
- Weight: 905 g

Approvals

- DIN EN 62368, UL507, CSA C22.2 Nr. 113, EAC, CE, UKCA

Options

- Speed signal
- Go / NoGo alarm
- Alarm with speed limit
- External temperature sensor
- Internal temperature sensor
- PWM control input
- Analog control input
- Moisture protection
- Salt spray protection
- Degree of protection: IP65

Measuring conditions

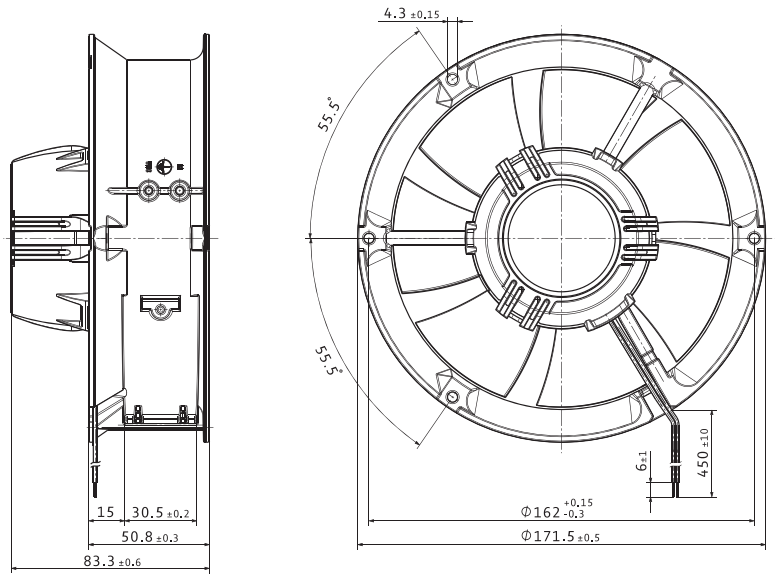
Air performance measured according to: ISO 5801. Installation category A, without contact protection.
Noise: Total sound $p_s$wer level LWA ISO 10302 measured on a hemisphere with a radius of 2 m. Sound pressure level LpA measured at 1 m distance from fan axis. The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked after installation!
For detailed information see http://www.ebmpapst.com/general conditions

Type / Type old	Part number	Nominal voltage	Frequency	Characteristic curve	Operating point	Air flow	Air flow	Speed	Power consumption	Sound power level	Sound pressure (free air flow)	Perm. ambient temperature	Service life L_{10} (40 °C) ebm-papst standard	Life expectancy L_{10IPC} (40 °C) s. p. 11
Voltage range 90…264 VAC		VAC	Hz			m³/h	cfm	rpm	W	Bel(A)	dB(A)	°C	Hours	Hours
VWEK172XSLPS AC 6200 NM	**9205414000**	**100…240**	50/60	A	1	326	192	2 850	11.7	6.0	50	-20…+72	80 000	135 000
					2	304	179	2 850	12.8	5.9				
					3	279	164	2 850	13.7	5.9				
					4	227	134	2 820	14.1	5.8				

Subject to changes. Speed variants available on request.

Technical drawing

Dimensions in mm



VWEH151X...

GreenTech EC axial fans · max. 370 m³/h · Ø 130 mm

from page 14	Definitions
from page 350	Accessories
more at	www.ebmpapst.com

Material/Surface

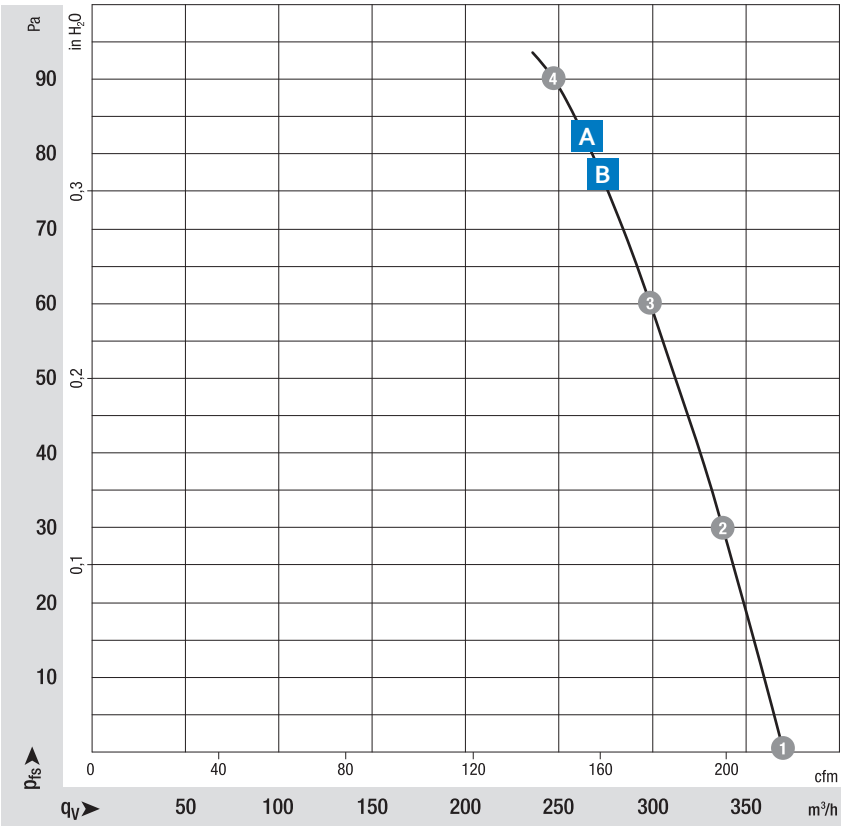
- Fan housing: Plastic
- Blades: Plastic

Characteristics

- Direction of air flow: "V", exhaust over struts
- Direction of rotation: counterclockwise, looking towards rotor
- Installation position: any
- Bearing: Maintenance-free ball bearings
- Operating mode: Continuous operation (S1)
- IP protection class: 55
- Electrical hookup: Plug-in connection on motor side
- Electrical protection class: II
- Weight: 750 g

Approvals

- EN 60335-1; EN 60335-2-24; EN 60335-2-80; EN 60335-2-89; CE; UKCA; EAC; CSA C22.2 Nr.77 + CAN/CSA-E60730-1; VDE; UL 1004-3 + 60730-1;
  B: CCC



Measuring conditions

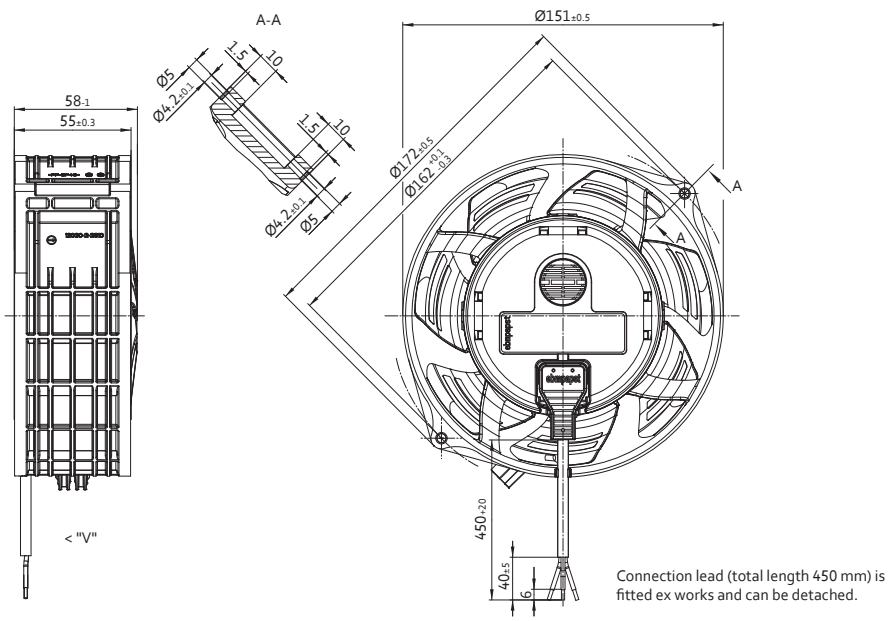
Air performance measured according to: ISO 5801. Installation category A, without contact protection.
Noise: Total sound $p_A$wer level LWA ISO 10302 measured on a hemisphere with a radius of 2 m. Sound pressure level LpA measured at 1 m distance from fan axis. The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked after installation!
For detailed information see http://www.ebmpapst.com/general conditions

Type	Part number	Nominal voltage	Frequency	Characteristic curve	Operating point	Air flow	Air flow	Speed	Power consumption	Max. Input current	Sound power level	Sound pressure	Max. back-pressure	Perm. ambient temperature
		VAC	Hz			m³/h	cfm	rpm	W	A	Bel(A)	dB(A)	Pa	°C
VWEH151XSLMS	W1G130AA4901	**1~ 115**	50/60	A	1	365	215	3 200	23	0.35	6.3	55	90	-30...+60
					2	330	195	3 200	23	0.35	6.3			
					3	285	170	3 200	24	0.37	6.1			
					4	230	135	3 200	24	0.38	6.2			
VWEH151XSLPS	W1G130AA2501	**1~ 230**	50/60	B	1	370	220	3 200	23	0.19	6.3	55	90	-30...+70
					2	335	200	3 200	24	0.19	6.1			
					3	295	175	3 200	24	0.19	6.0			
					4	240	140	3 200	24	0.19	6.3			

Subject to changes.

Technical drawing

Dimensions in mm



Connection lead (total length 450 mm) is fitted ex works and can be detached.

VWLJ225X...

GreenTech EC axial fans · max. 1 060 m³/h · Ø 200 mm

from page 14	Definitions
from page 350	Accessories
more at	www.ebmpapst.com

Material/Surface

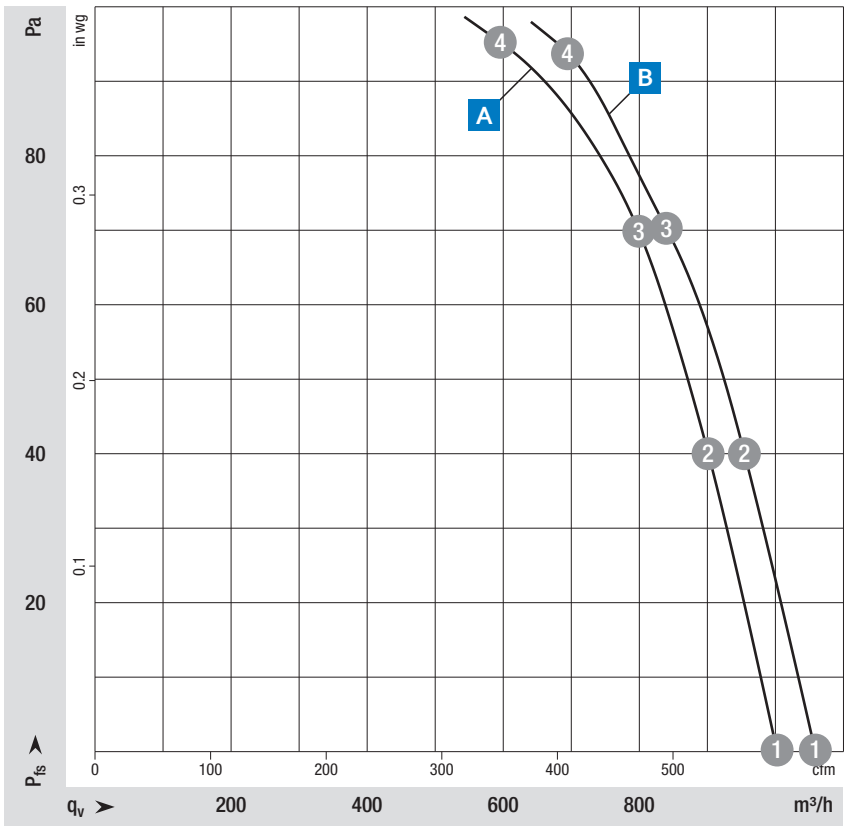
- Fan housing: Metal
- Blades: Plastic
- Rotor: Thick-film passivated

Characteristics

- Version: EC axial fan – HyBlade®, sickle-shaped blades (S series)
- Direction of air flow: "V"
- Direction of rotation: counterclockwise, looking towards rotor
- Installation position: any
- Bearing: Maintenance-free ball bearings
- Operating mode: Continuous operation (S1)
- IP protection class: IP54
- Electrical hookup: via terminal strip
- Electrical protection class: I (with customer connection to grounding conductor)
- Weight: 1.6 kg

Approvals

- EN 60335-1; CE; CCC on request; CSA C22.2 Nr.77 + CAN/CSA-E60730-1; UL 1004-7 + 60730-1



Measuring conditions

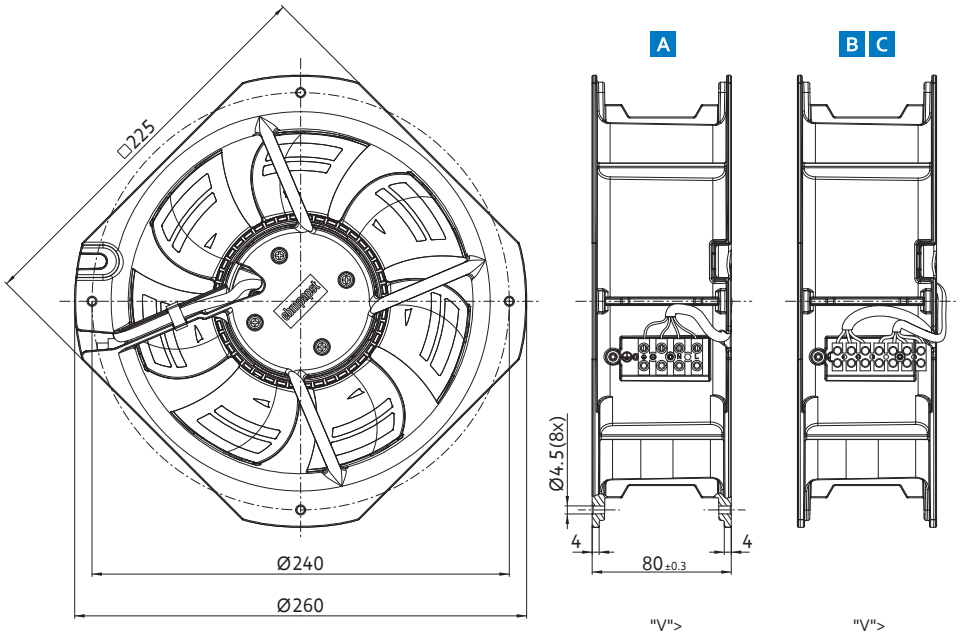
Air performance measured according to: ISO 5801. Installation category A, without contact protection.
Noise: Total sound $p_A$wer level LWA ISO 10302 measured on a hemisphere with a radius of 2 m. Sound pressure level LpA measured at 1 m distance from fan axis. The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked after installation!
For detailed information see http://www.ebmpapst.com/general conditions

Type	Part number	Nominal voltage	Frequency	Characteristic curve	Operating point	Air flow	Air flow	Speed	Power consumption	Max. Input current	Sound power level	Sound pressure	Max. back-pressure	Perm. ambient temperature
		VAC	Hz			m³/h	cfm	rpm	W	A	Bel(A)	dB(A)	Pa	°C
VWLJ225XSLTS	W3G200HD0103	**1~ 200-240**	50/60	A	1	1 000	590	2 970	50	0.49	6.5	58	96	-25...+60
					2	900	530	2 885	55	0.53	6.4			
					3	800	470	2 825	58	0.56	6.5			
					4	600	350	2 900	54	0.55	7.1			
VWLJ225XSLSZ	W3G200HD2310	**1~ 115**	50/60	B	1	1 060	625	3 150	62	1.00	6.6	59	94	-25...+60
					2	955	560	3 050	65	1.00	6.6			
					3	840	495	2 930	65	1.00	7.2			
					4	695	410	2 900	65	1.00	7.4			

Subject to changes.

Technical drawing

Dimensions in mm



VWLK280X...

GreenTech EC axial fans · max. 1 905 m³/h · Ø 250 mm

from page 14	Definitions
from page 350	Accessories
more at	www.ebmpapst.com

Material/Surface

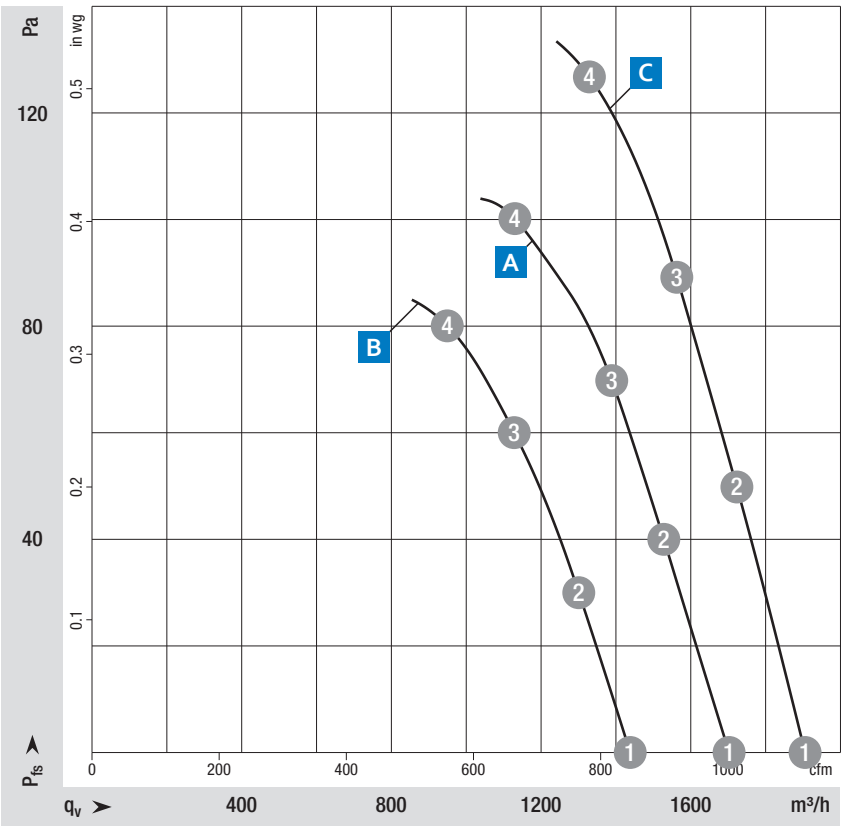
- Fan housing: Metal
- Blades: Plastic
- Rotor: Thick-film passivated

Characteristics

- Version: EC axial fan – HyBlade®, sickle-shaped blades (S series)
- Direction of air flow: "V"
- Direction of rotation: counterclockwise, looking towards rotor
- Installation position: any
- Bearing: Maintenance-free ball bearings
- Operating mode: Continuous operation (S1)
- IP protection class: IP54
- Electrical hookup: via terminal strip
- Electrical protection class: I (with customer connection to grounding conductor)
- Weight: 2.1 kg

Approvals

- EN 60335-1; CE; UL 1004-7+ 60730-1; CSA C22.2 Nr. 77 + CAN /CSA-E60730-1; A: CCC on request



Measuring conditions

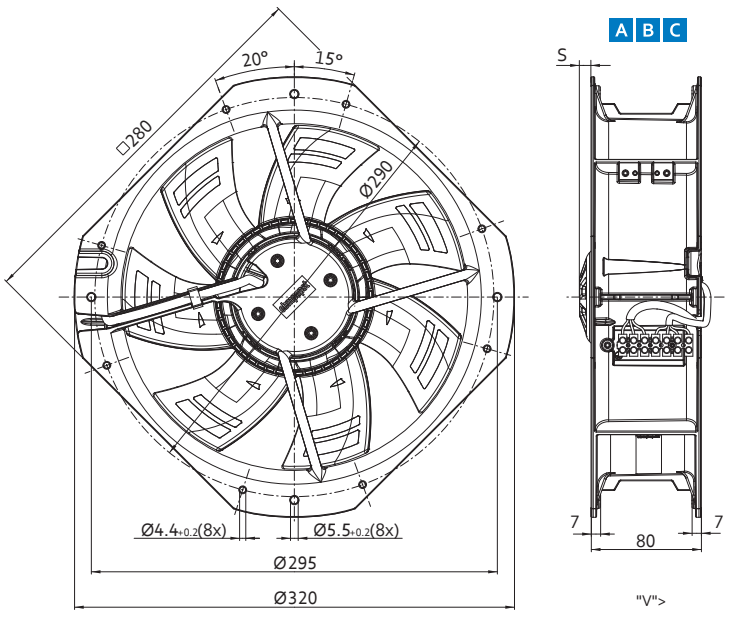
Air performance measured according to: ISO 5801. Installation category A, without contact protection.
Noise: Total sound $p_A$wer level LWA ISO 10302 measured on a hemisphere with a radius of 2 m. Sound pressure level LpA measured at 1 m distance from fan axis. The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked after installation!
For detailed information see http://www.ebmpapst.com/general conditions

Type	Part number	Nominal voltage	Frequency	Characteristic curve	Operating point	Air flow	Air flow	Speed	Power consumption	Max. Input current	Sound power level	Sound pressure	Max. back-pressure	Perm. ambient temperature
		VAC	Hz			m³/h	cfm	rpm	W	A	Bel(A)	dB(A)	Pa	°C
VWLK280XSLVS	W3G250HH0703	**1~ 200-240**	50/60	A	1	1 700	1 000	2465	67	0.59	6.9	62	100	-25...+60
					2	1 530	900	2410	75	0.65	6.9			
					3	1 385	815	2370	81	0.68	6.8			
					4	1 125	660	2330	83	0.72	6.9			
VWLK280XSLTZ	W3G250HH5303	**1~ 115**	50/60	B	1	1 440	845	2 140	43	0.72	6.3	56	80	-25...+50
					2	1 300	765	2 100	49	0.80	6.3			
					3	1 130	665	2 070	53	0.86	6.4			
					4	950	560	2 040	56	0.90	6.5			
VWLL280XSLVZ	W3G250HK3511	**1~ 115**	50/60	C	1	1 905	1 120	2 820	93	1.43	7.0	64	130	-25...+60
					2	1 725	1 015	2 760	106	1.61	7.1			
					3	1 570	925	2 725	114	1.72	7.1			
					4	1 345	790	2 700	125	1.90	7.1			

Subject to changes.

Technical drawing

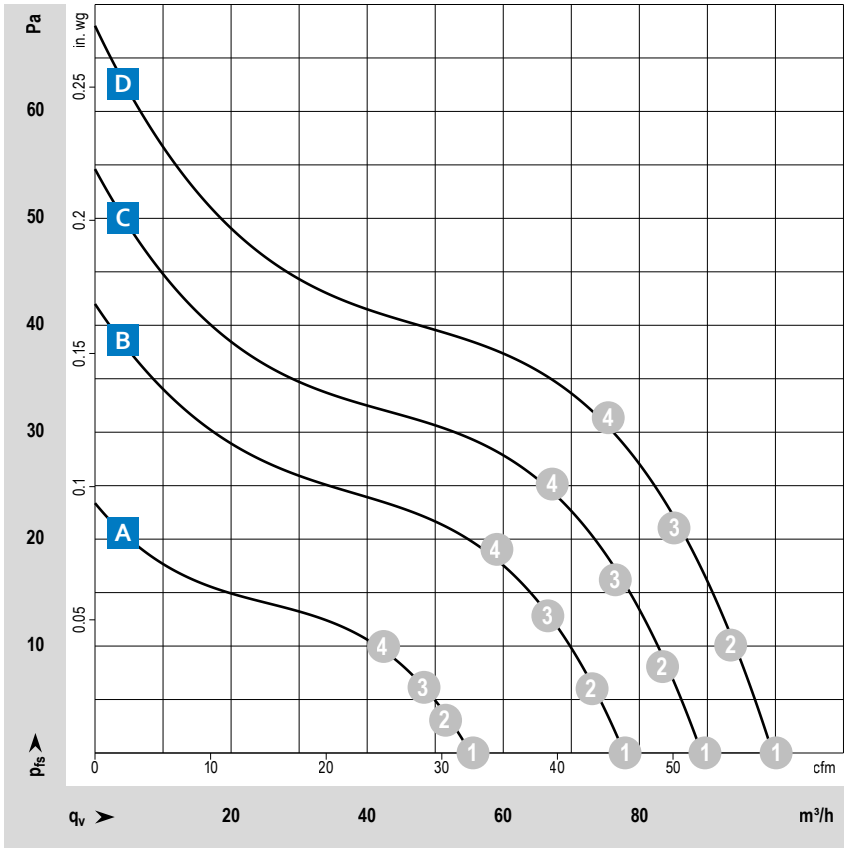
Dimensions in mm



VUS0092XSGBS

GreenTech EC in-line duct fan · max. 100 m³/h · Ø 98.5 x 130 mm

from page 14	Definitions
from page 350	Accessories
more at	www.ebmpapst.com



Material/Surface

- Housing: Plastic
- Impeller: Plastic

Characteristics

- Version: AC fan with wide voltage; in-line duct fan for easy installation in pipe systems, e.g. in wet room ventilation
- Direction of air flow: intake over struts
- Direction of rotation: clockwise, looking towards rotor
- Installation position: any
- Bearing: Ball bearings
- Operating mode: Continuous operation (S1)
- IP protection class: IP20
- Electrical hookup: Via 3-pin Europa terminal strip max. 1.5 mm²
- Electrical protection class: III
- Weight: 400 g

Approvals

- Approvals: DIN EN 62368, UL507, CSA C22.2 Nr. 113, EAC, CE, UKCA
- Conformity with standard(s): EN 60335-1, CE

Options

- new impeller for high pressure
- Two speeds over jumper adjustable
- Speed signal
- PWM control input
- Analog control input 0...10 VDC
- Moisture protection
- Degree of protection: IP44 (IP45 depending on installation position)

Special features

- Boost function
- Vibration-isolated motor
- two aerodynamic impellers available for more air flow or pressure-oriented design

Measuring conditions

Air performance measured according to: ISO 5801. Installation category A, without contact protection.
Noise: Total sound p_{A}wer level LWA ISO 10302 measured on a hemisphere with a radius of 2 m. Sound pressure level LpA measured at 1 m distance from fan axis. The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked after installation!
For detailed information see http://www.ebmpapst.com/general conditions

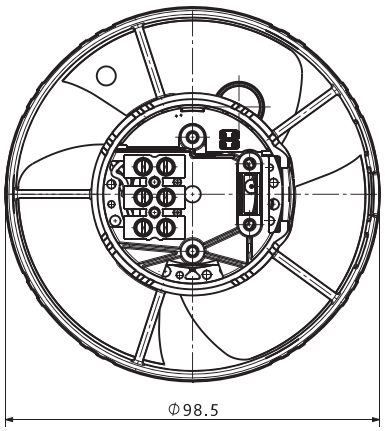
			Nominal voltage	Frequency	Characteristic curve	Operating point	Air flow	Air flow	Speed	Power consumption	Sound power level	Sound pressure (free air flow)	Perm. ambient temperature	Service life L_{10} (40 °C) ebm-papst standard	Life expectancy $L_{10^{IPC}}$ (40 °C) s. p. 11
Voltage range 90…264 VAC			VAC	Hz			m³/h	cfm	rpm	W	Bel(A)	dB(A)	°C	Hours	Hours
Type / Type old		Part number													
nominal / boost	High air flow VUS0092XSGBS AC 100 MR	9203510011	100…240	50-60	A	1	56.0	33.0	2 050	1.9	4.5	33	-10…+55	70 000	117 500
						2	51.0	30.0	2 040	1.9	4.5				
						3	47.8	28.1	2 040	2.0	4.5				
						4	42.5	25.0	2 040	2.0	4.5				
					C	1	90.0	53.0	3 150	4.3	5.5	40	-10…+55	70 000	117 500
						2	83.0	48.9	3 130	4.4	5.5				
						3	76.0	44.7	3 120	4.6	5.4				
						4	67.0	39.4	3 130	4.8	5.4				
nominal / boost	High air flow VUS0092XSGBS AC 100 NR	9203510005	100…240	50-60	B	1	78.0	45.9	2 750	2.8	5.1	35	-10…+55	70 000	117 500
						2	73.0	43.0	2 740	2.9	5.1				
						3	67.0	39.4	2 740	3.0	5.0				
						4	59.0	34.7	2 740	3.1	4.9				
					D	1	100.0	58.9	3 500	4.9	5.8	42	-10…+55	70 000	117 500
						2	93.0	54.7	3 490	5.1	5.7				
						3	85.0	50.0	3 490	5.3	5.7				
						4	75.0	44.1	3 490	5.5	5.6				

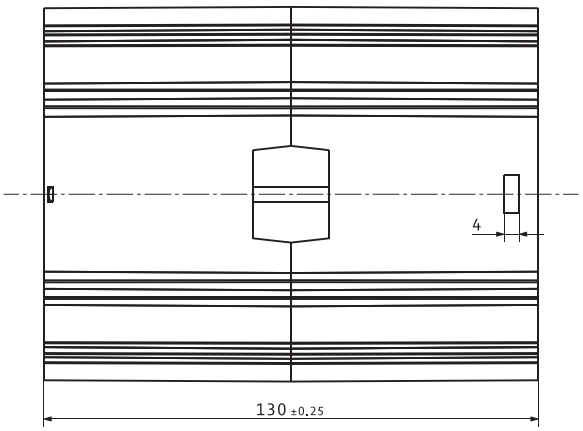
Subject to changes. *On request

Impeller	Type	Boost off, Jumper low	Boost off, Jumper high	Boost on
High air flow	AC 100 MR	1 250	2 050	3 150
High air flow	AC 100 NR	2 200*	2 750	3 500
High pressure	AC100 MR-018	1 250*	2 050*	3 150*
High pressure	AC 100 NR-017	2 180	2 680	3 300

Technical drawing

Dimensions in mm

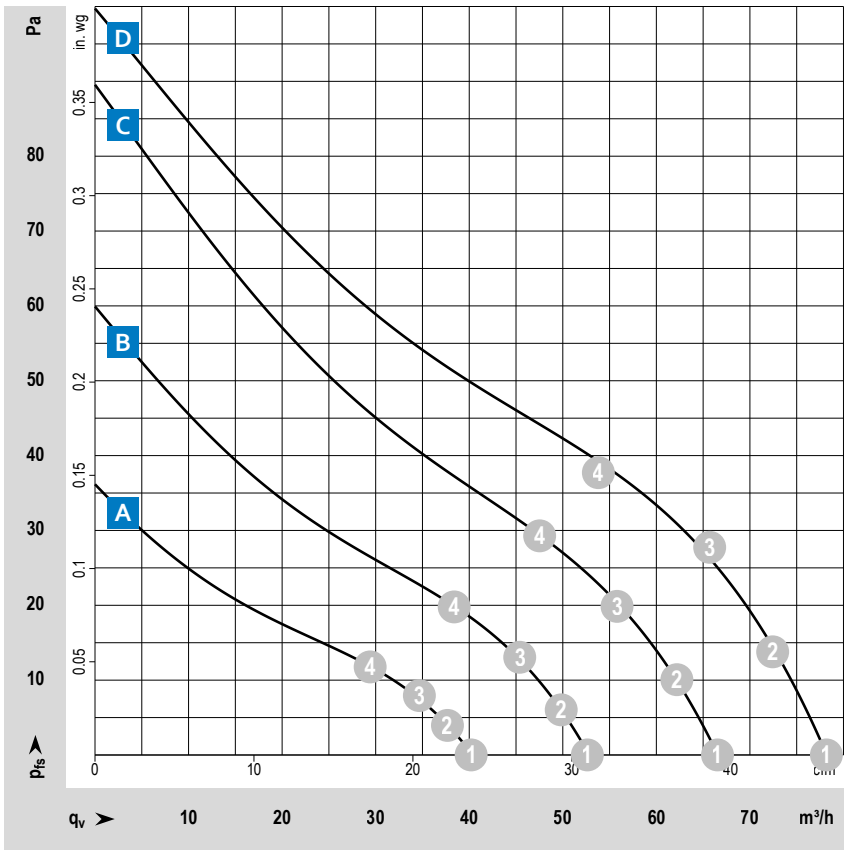




VUS0092XSGBS

GreenTech EC in-line duct fan · max. 78 m³/h · Ø 98.5 x 130 mm

from page 14	Definitions
from page 350	Accessories
more at	www.ebmpapst.com



Material/Surface

- Housing: Plastic
- Impeller: Plastic

Characteristics

- Version: AC fan with wide voltage; in-line duct fan for easy installation in pipe systems, e.g. in wet room ventilation
- Direction of air flow: intake over struts
- Direction of rotation: clockwise, looking towards rotor
- Installation position: any
- Bearing: Ball bearings
- Operating mode: Continuous operation (S1)
- IP protection class: IP20
- Electrical hookup: Via 3-pin Europa terminal strip max. 1.5 mm²
- Electrical protection class: III
- Weight: 400 g

Approvals

- Approvals: DIN EN 62368, UL507, CSA C22.2 Nr. 113, EAC, CE, UKCA
- Conformity with standard(s): EN 60335-1, CE

Options

- new impeller for high pressure
- Two speeds over jumper adjustable
- Speed signal
- PWM control input
- Analog control input 0...10 VDC
- Moisture protection
- Degree of protection: IP44 (IP45 depending on installation position)

Special features

- Boost function
- Vibration-isolated motor
- two aerodynamic impellers available for more air flow or pressure-oriented design

Measuring conditions

Air performance measured according to: ISO 5801. Installation category A, without contact protection.
Noise: Total sound $p_A$wer level LWA ISO 10302 measured on a hemisphere with a radius of 2 m. Sound pressure level LpA measured at 1 m distance from fan axis. The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked after installation!
For detailed information see http://www.ebmpapst.com/general conditions

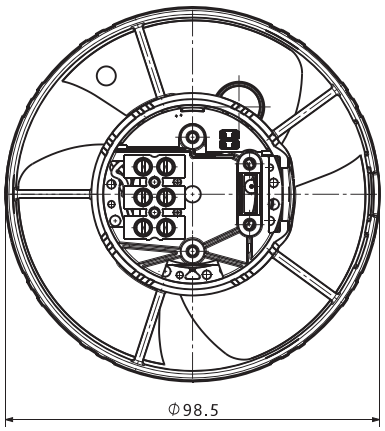
			Nominal voltage	Frequency	Characteristic curve	Operating point	Air flow	Air flow	Speed	Power consumption	Sound power level	Sound pressure (free air flow)	Perm. ambient temperature	Service life L_{10} (40 °C) ebm-papst standard	Life expectancy $L_{10^{IPC}}$ (40 °C) s. p. 11
Voltage range 90…264 VAC			VAC	Hz			m³/h	cfm	rpm	W	Bel(A)	dB(A)	°C	Hours	Hours
Type / Type old		Part number													
nominal / boost	High pressure VUS0092XSGBS AC 100 MR-018	9203510018	100…240	50-60	A	1	40.2	23.7	2 100	1.8	4.6	31	-10…+55	70 000	117 500
						2	37.9	22.3	2 090	1.8	4.5				
						3	34.8	20.5	2 090	1.9	4.4				
						4	29.7	17.5	2 090	1.9	4.4				
					D	1	78.0	45.9	3 900	4.2	5.9	38	-10…+55	70 000	117 500
						2	73.0	43.0	3 880	4.4	5.8				
						3	66.0	38.8	3 870	4.7	5.6				
						4	54.0	31.8	3 880	4.9	5.5				
nominal / boost	High pressure VUS0092XSGBS AC 100 NR-017	9203510017	100…240	50-60	B	1	53.0	31.2	2 650	2.4	4.8	33	-10…+55	70 000	117 500
						2	49.7	29.3	2 650	2.6	4.8				
						3	45.3	26.7	2 650	2.7	4.7				
						4	38.6	22.7	2 650	2.8	4.5				
					C	1	67.0	39.4	3 300	4.0	5.3	40	-10…+55	70 000	117 500
						2	62.0	36.5	3 280	4.2	5.3				
						3	56.0	33.0	3 290	4.3	5.2				
						4	47.3	27.8	3 290	4.5	5.0				

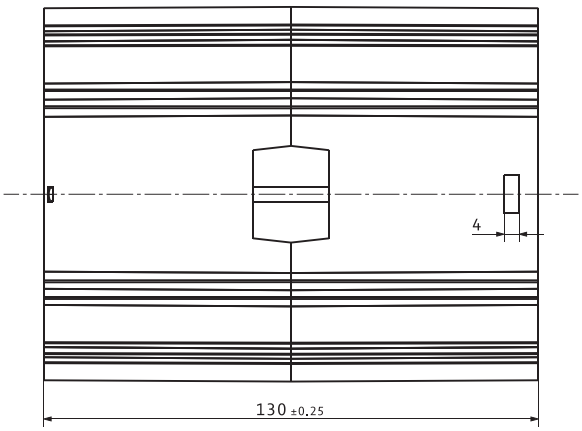
Subject to changes.

Impeller	Bezeichnung	Boost off, Jumper low	Boost off, Jumper high	Boost on
High air flow	AC 100 MR	1 250	2 050	3 150
High air flow	AC 100 NR	2 200*	2 750	3 500
High pressure	AC100 MR-018	1 250*	2 050*	3 150*
High pressure	AC 100 NR-017	2 180	2 680	3 300

Technical drawing

Dimensions in mm





VUS0092XSGBS

GreenTech EC in-line duct fan

Highest energy efficiency

- 0.03 - 0.045 W/m3/h free air (specific fan power)

Boost speed

- 2 speed settings possible via boost function

Vibration isolation

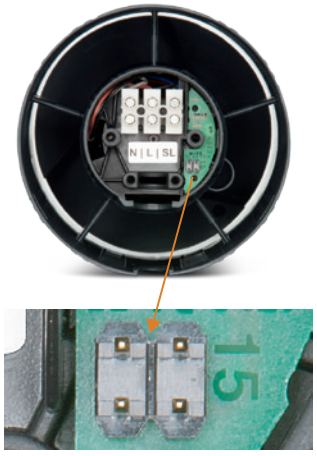
- Reduced transmission of vibrations from motor to housing

Intelligence

- Can be expanded to include set value requirement and signal outputs as an option

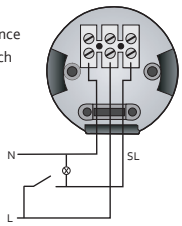
from page 14	Definitions
from page 350	Accessories
more at	www.ebmpapst.com

Examples of connections

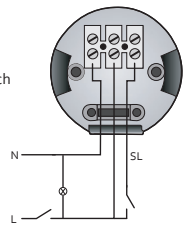


Jumper Low Jumper High

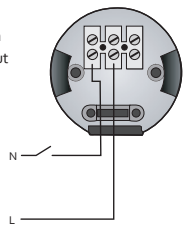
Example 1:
Nom speed endurance
Boost via light switch



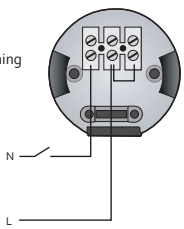
Example 2:
Nom speed via light switch
Separate boost switch



Example 3:
Simple connection
Nom speed without switching



Example 4:
Simple connection
Boost without switching



Scope of delivery