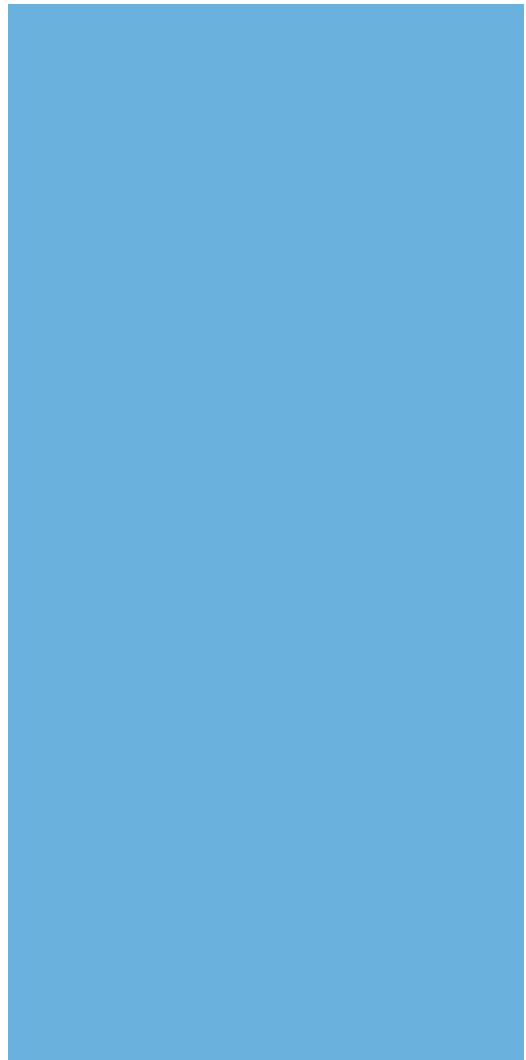


Blowers and fans for use in range hoods

Version 04/2006



The engineer's choice

ebmpapst

Centrifugal blowers and fans

Originating from the companies ebm, PAPST, and mvl, all three rich in tradition, ebm-papst offers a unique range of products that makes us world market leader. We unite the forces of three remarkable companies - each of them having worked hard to succeed in attaining a leading position in the most diverse fields and segments. More than 7,000 members of staff in Germany and throughout the world develop, produce and distribute our motors and fans. Striving for perfect solutions in applications in the different industries is what determines our daily work. Those who know us know the high standards we apply to our work and know our creed: to be as close to our customers as possible and to simply be the best in terms of innovation and reliability.

ebm-papst centrifugal blowers and fans with forward curved blades, also known as cylindrical rotors, are available in single and dual inlet design. The external-rotor motor design makes for a compact build as the motor is integrated inside the impeller. Blowers are units with scroll housing, whereas centrifugal fans are generally supplied without scroll housing.

Years ago, aiming to be able to offer our customers the optimum solution for their range hoods, we started to develop a separate line of blowers specifically for those applications. Keeping in intensively close touch with our customers results in other products, too, being continually improved and adjusted to changing customer demands.

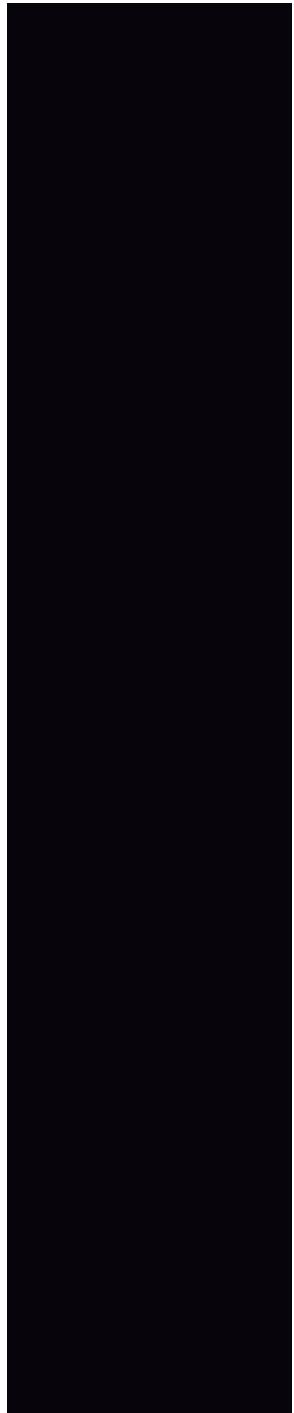
This brochure gives you a small glimpse of one particular segment of the comprehensive product range of ebm-papst. This particular segment focuses on products specifically tailored to the needs of range hood applications.

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Dual inlet blowers

Dual inlet blowers

\varnothing 140 - \varnothing 160

5



Dual inlet blowers

Centrifugal fans forward curved

Centrifugal fans backward curved

Accessories

Subsidiaries & representatives, addresses

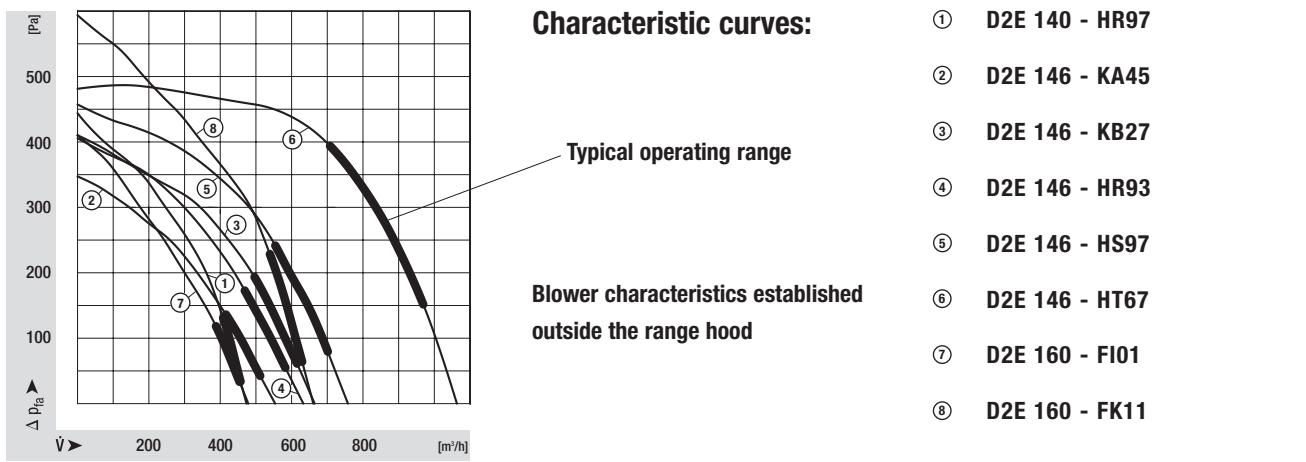
Dual inlet blowers

Centrifugal dual inlet blowers with forward curved impellers are mainly used in wall and island chimneys as well as in flat screen hoods.

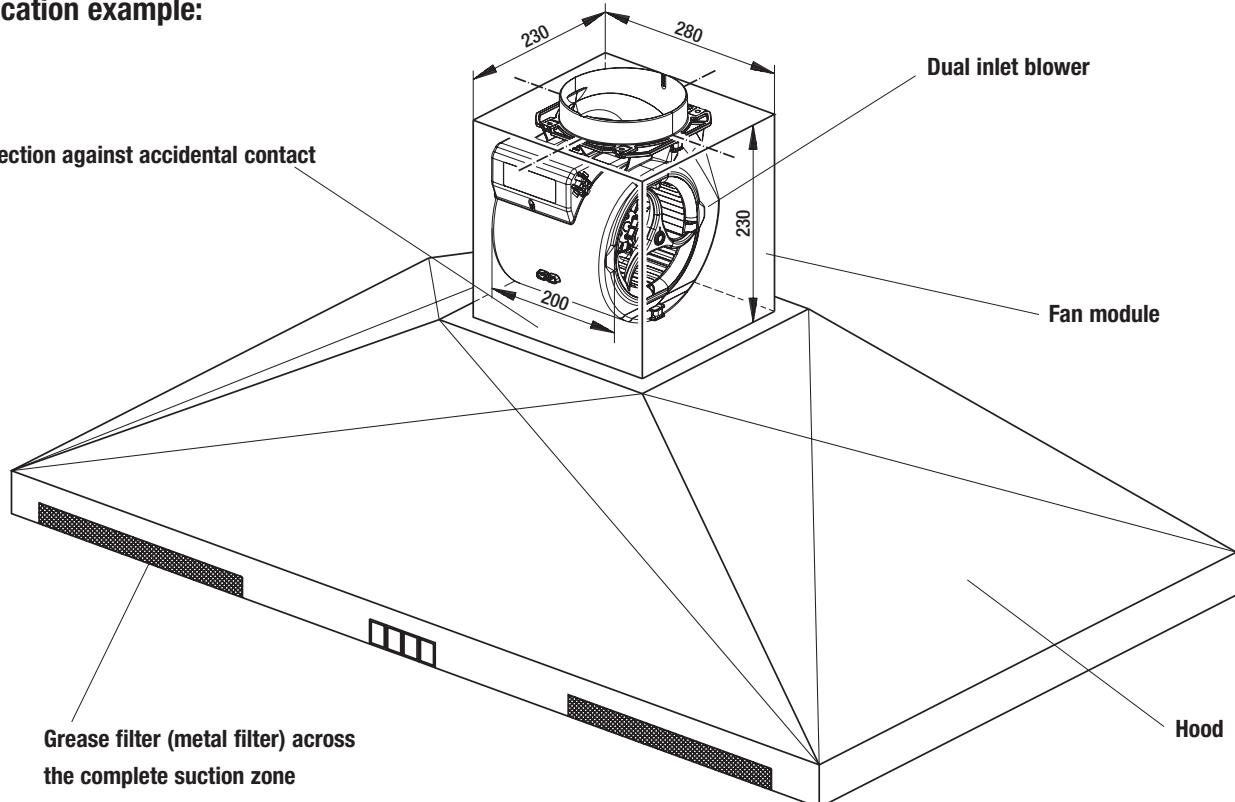
The blowers have been optimised and have compact dimensions and minimal noise. In keeping with the different installation conditions, various blower lines with specific dimensions were developed. Apart from blower D2E140 with its discharge nozzle diameter of 125mm, all blowers have a round nozzle in diameter 150mm for direct connection with conventional pipe duct systems. There is a receptacle for a trap flap on this nozzle.

The blowers can be mounted and connected in a matter of seconds, thus simplifying installation and reducing installation costs. All blowers have the same mounting dimensions and are shipped with pre-mounted sheet metal nuts. The plug integrated in the terminal box is for connection with the customer-specific line. The terminal box also contains the capacitor already mounted and wired up ready for operation. As for accessory, there are guard grilles available that can be mounted on top of the inlet nozzle, thus making sure that there is no accidental contact with the impeller.

The blowers are driven by single-phase capacitor motors. The robust design of these external-rotor motors makes for high efficiency, good acoustic and vibration performance, and for long service life. The motors are available in 5-speed-step design, with 4 steps being the normal standard. They come with long-lasting, maintenance-free ball bearings. For range hoods and mounting position "shaft horizontal", the low-noise sleeve bearing design is recommended.



Application example:



AC centrifugal blower

Dual inlet, Ø 140



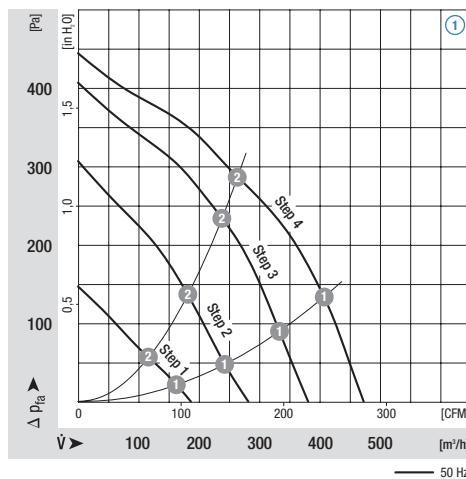
- Material:** Scroll housing with integrated terminal box made of polypropylene, talcum reinforced, colour: black; impeller made of polypropylene, colour: nature (according to IEC 695 T2-2 and EN 60335-2-31)
 - Mounting:** SAL motor (standard external-rotor motor) mounted via brackets on one side of the scroll housing
 - Design:** 4-step blower with external-rotor motor
 - Capacitor:** FPU (P2) integrated in terminal box and wired up ready for plug-in
 - Direction of rotation:** clockwise seen on rotor
 - Bearing:** Ball bearing (sleeve bearing as option)
 - Type of protection:** IP 44
 - Insulation class:** "F"
 - Approvals:** VDE, CE; UL upon request
- ebm-papst • Mulfingen

Nominal data		Characteristic	Voltage	Frequency	Airflow	Speed/min ⁻¹	Power input	Current draw	Capacitor	Sound pressure level	Min. backpressure	Perm. ambient temp.	Weight
Type	Motor		VAC	Hz	m ³ /h	min ⁻¹	W	A	μF/VDB	dB(A)	Pa	°C	kg
D2E 140-HR97 -07	M2E 068-CF	(1)	230	50	470	1150	130	0.58	2.0 / 400	58	0	-20..+50	2.3

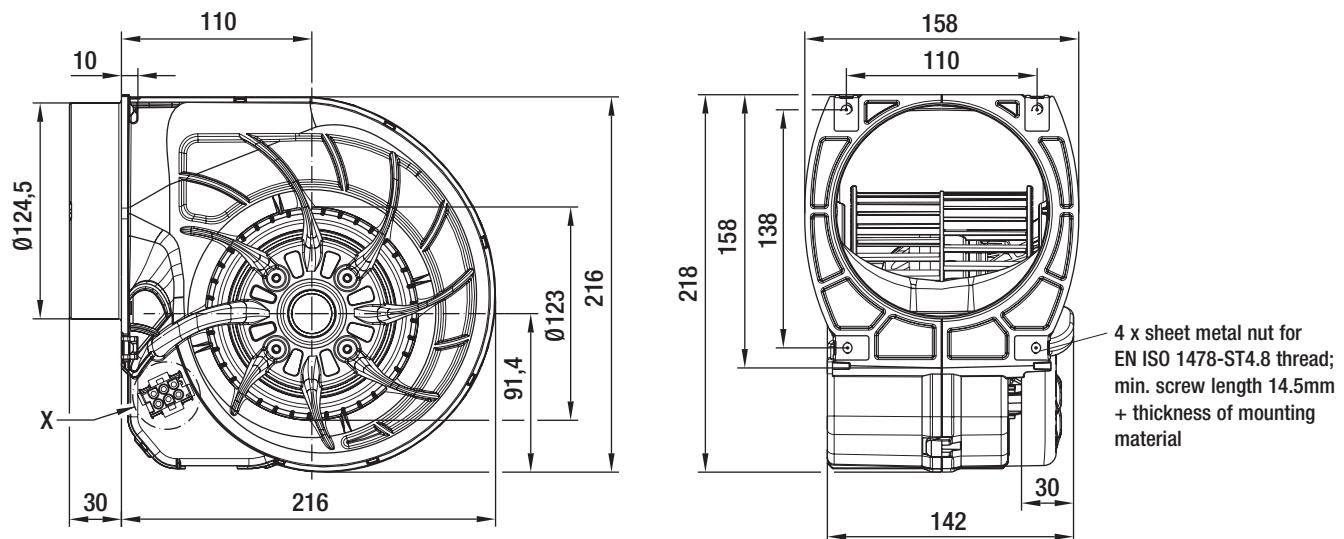
Subject to alteration

	n [min ⁻¹]	P ₁ [W]	I [A]	L _{pA} [dBA]
(1) ① Step 1	690	56	0.26	36
(1) ② Step 1	1015	55	0.25	38
(1) ① Step 2	1000	73	0.33	46
(1) ② Step 2	1540	68	0.31	49
(1) ① Step 3	1385	93	0.41	52
(1) ② Step 3	2020	80	0.36	56
(1) ① Step 4	1675	118	0.51	56
(1) ② Step 4	2235	100	0.43	59

Characteristics



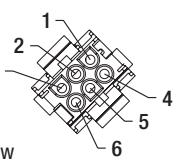
- **Safety regulations:** With integrated T.O.P. and integrated FPU (P2) capacitor in keeping with EN 60335-2-31



Detail X

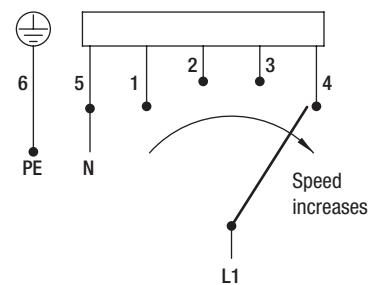
Coded plug system AMP Universal-Mate-N-Lok
Connector shell: AMP 926 682-3
6 x plug pin: AMP 926 886-1

1 = step 1 (min.) white
2 = step 2 red
3 = step 3 grey
4 = step 4 (max.) black
5 = N blue
6 = PE green / yellow



Connection diagram

The switch has to break the circuit when activated for switching



AC centrifugal blowers

Dual inlet, Ø 146



- Material:** Scroll housing with integrated terminal box made of polypropylene, talcum reinforced, colour: black; impeller made of polyamide, fibre-glass reinforced, colour: nature (according to IEC 695 T2-2 and EN 60335-2-31)
 - Mounting:** SAL motor (standard external-rotor motor) mounted via support plate with anti-vibration mount
 - Design:** 4-step blower with external-rotor motor
 - Capacitor:** FPU (P2) integrated in terminal box and wired up ready for plug-in
 - Direction of rotation:** clockwise seen on rotor
 - Bearing:** Ball bearing (sleeve bearing as option)
 - Type of protection:** IP 44
 - Insulation class:** "F"
 - Approvals:** VDE, CE; UL upon request
- ebm-papst • Mulfingen

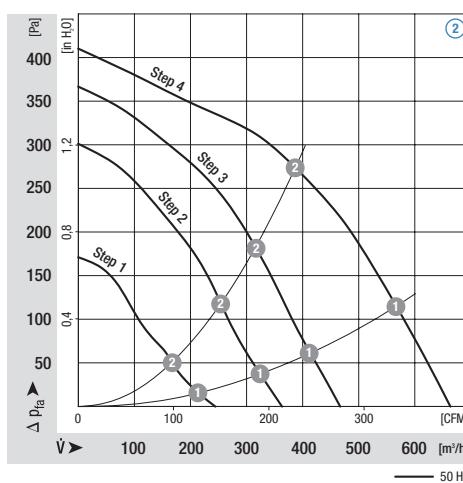
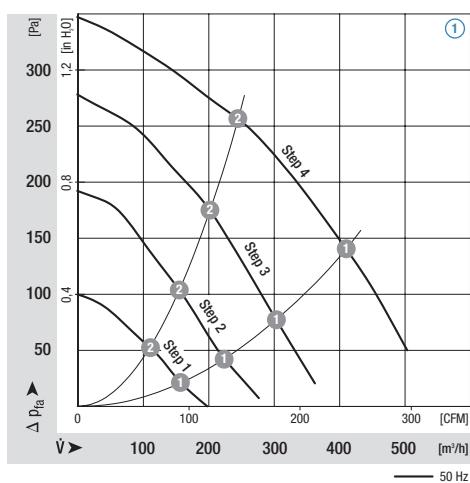
Nominal data		Characteristic											
Type	Motor	VAC	Hz	Airflow	Speed/min ⁻¹	Power input	Current draw	Capacitor	Sound pressure level	Min. backpressure	Perm. ambient temp.	Weight	
D2E 146-KA45 -01	M2E 068-CA	(1)	230	50	520	1350	120	0.53	3.0 / 400	51	50	-20..+55	2.5
			230	60	375	1400	125	0.55	3.0 / 400	53	100	-20..+40	
D2E 146-KB27 -01	M2E 068-CF	(2)	230	50	665	1250	160	0.70	4.0 / 400	53	0	-20..+50	2.7
			230	60	390	1950	170	0.75	4.0 / 400	58	200	-20..+40	

Subject to alteration

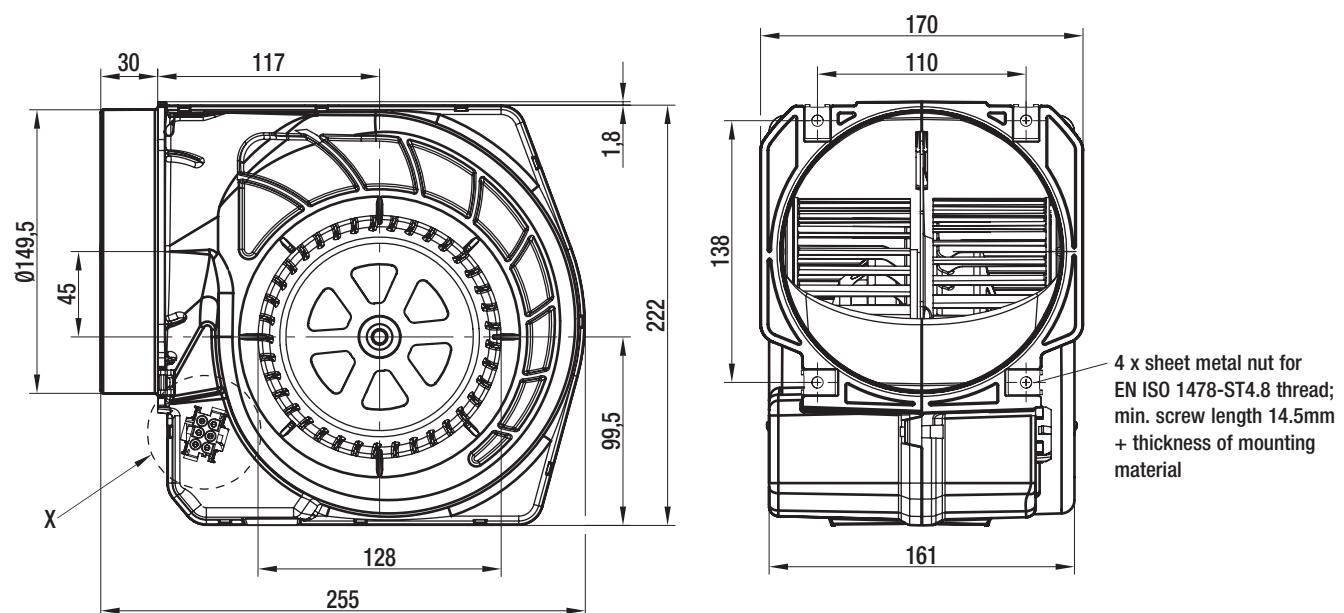
	n [min ⁻¹]	P ₁ [W]	I [A]	L _{pA} [dBA]		n [min ⁻¹]	P ₁ [W]	I [A]	L _{pA} [dBA]
(1) ① Step 1	660	48	0,27	31	(2) ① Step 1	660	71	0,37	31
(1) ② Step 1	960	46	0,26	38	(2) ② Step 1	960	68	0,36	38
(1) ① Step 2	925	58	0,31	40	(2) ① Step 2	950	85	0,43	43
(1) ② Step 2	1355	55	0,30	47	(2) ② Step 2	1440	80	0,42	49
(1) ① Step 3	1210	72	0,36	48	(2) ① Step 3	1230	101	0,50	50
(1) ② Step 3	1740	66	0,35	53	(2) ② Step 3	1800	92	0,47	55
(1) ① Step 4	1635	113	0,49	55	(2) ① Step 4	1675	151	0,66	59
(1) ② Step 4	2115	104	0,45	58	(2) ② Step 4	2185	136	0,60	62

Characteristics

Characteristics



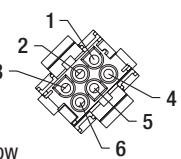
- **Safety regulations:** With integrated T.O.P. and integrated FPU (P2) capacitor in keeping with EN 60335-2-31



Detail X

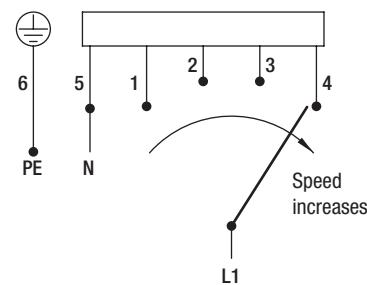
Coded plug system AMP Universal-Mate-N-Lok
Connector shell: AMP 926 682-3
6 x plug pin: AMP 926 886-1

1 = step 1 (min.) white
2 = step 2 red
3 = step 3 grey
4 = step 4 (max.) black
5 = N blue
6 = PE green / yellow



Connection diagram

The switch has to break the circuit when activated for switching



AC centrifugal blowers

Dual inlet, Ø 146



- Material:** Scroll housing with integrated terminal box made of polypropylene, talcum reinforced, colour: black (according to IEC 695 T2-2 and EN 60335-2-31), impeller made of PP, colour: white
 - Mounting:** EW motor (single-phase AC motor) mounted on both sides with anti-vibration mount
 - Design:** 4-step blower with external-rotor motor
 - Capacitor:** FPU (P2) integrated in terminal box and wired up ready for plug-in
 - Direction of rotation:** counter-clockwise seen on plug shell
 - Bearing:** Ball bearing (sleeve bearing as option)
 - Type of protection:** IP 20 (IP 44 as option)
 - Insulation class:** "F"
 - Approvals:** VDE, CE; UL upon request
- ebm-papst • Mulfingen

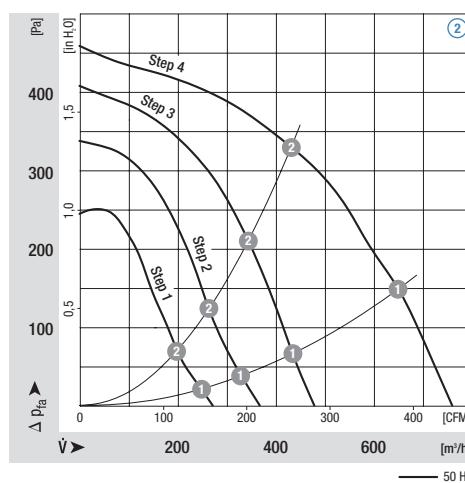
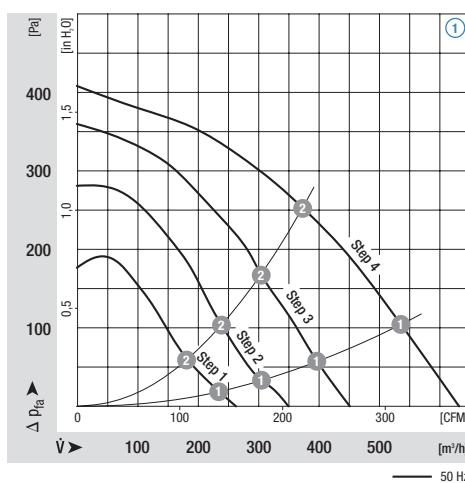
Nominal data		Characteristic											
Type	Motor	VAC	Hz	Airflow	Frequency	Speed/min ⁻¹	Power input	Current draw	Capacitor	Sound pressure level	Min. backpressure	Perm. ambient temp.	Weight
D2E 146-HR93 -03	M2E 068-CF	(1)	230	50	630	1100	150	0.66	4.0 / 400	51	0	-20..+50	3.0
			230	60	415	1600	160	0.71	4.0 / 400	55	150	-20..+45	
D2E 146-HS97 -03	M2E 068-DF	(2)	230	50	755	1350	195	0.86	5.0 / 400	57	0	-20..+55	3.5
			230	60	580	1750	215	0.94	5.0 / 400	54	150	-20..+40	

Subject to alteration

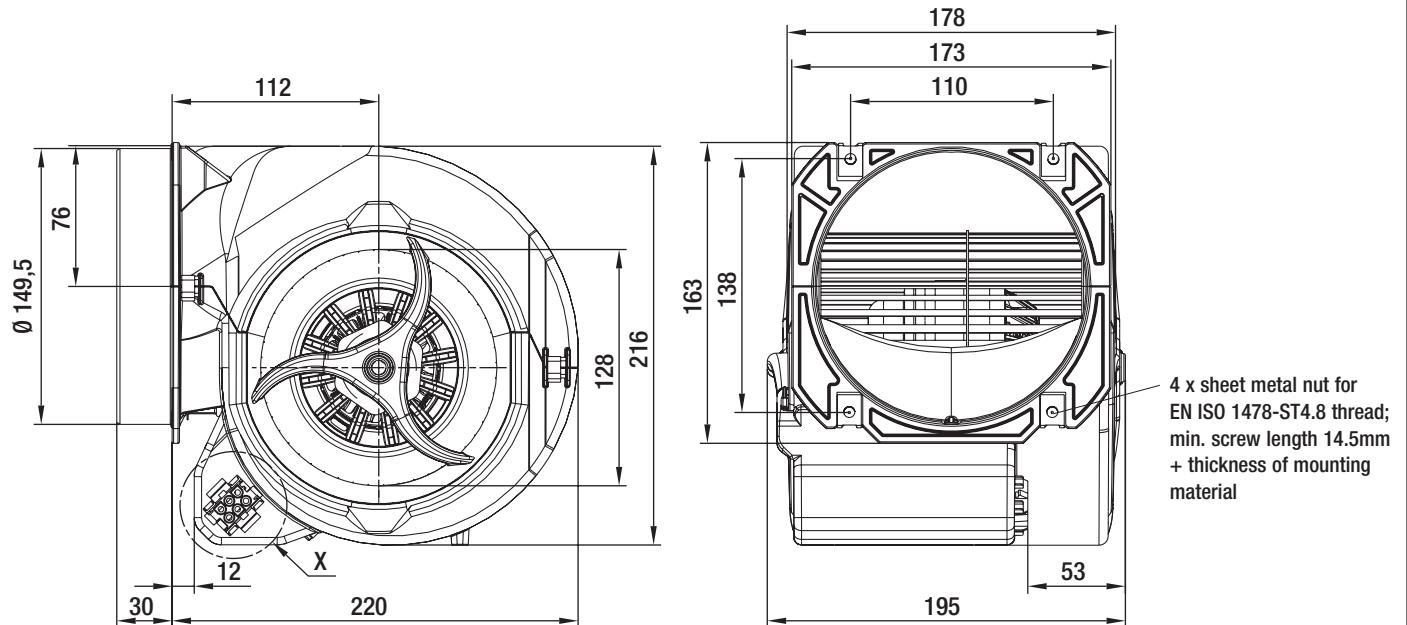
	n [min ⁻¹]	P ₁ [W]	I [A]	L _{pA} [dBA]		n [min ⁻¹]	P ₁ [W]	I [A]	L _{pA} [dBA]
(1) ① Step 1	680	69	0,38	31	(2) ① Step 1	710	94	0,47	30
(1) ② Step 1	990	67	0,37	35	(2) ② Step 1	1055	91	0,46	38
(1) ① Step 2	890	81	0,42	37	(2) ① Step 2	910	106	0,52	38
(1) ② Step 2	1315	77	0,42	43	(2) ② Step 2	1415	100	0,50	45
(1) ① Step 3	1110	98	0,49	47	(2) ① Step 3	1210	125	0,60	45
(1) ② Step 3	1635	92	0,47	49	(2) ② Step 3	1820	112	0,57	52
(1) ① Step 4	1490	143	0,62	51	(2) ① Step 4	1790	185	0,81	56
(1) ② Step 4	2005	133	0,59	55	(2) ② Step 4	2290	164	0,72	59

Characteristics

Characteristics

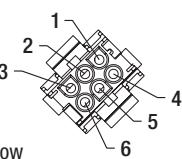


- **Safety regulations:** With integrated T.O.P. and integrated FPU (P2) capacitor in keeping with EN 60335-2-31

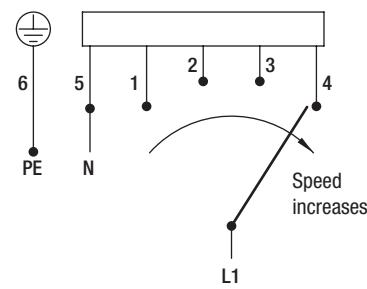


Detail X
Coded plug system AMP Universal-Mate-N-Lok
Connector shell: AMP 926 682-3
6 x plug pin: AMP 926 886-1

1 = step 1 (min.)	white
2 = step 2	red
3 = step 3	grey
4 = step 4 (max.)	black
5 = N	blue
6 = PE	green / yellow



Connection diagram
The switch has to break the circuit when activated for switching



AC centrifugal blower

Dual inlet, Ø 146



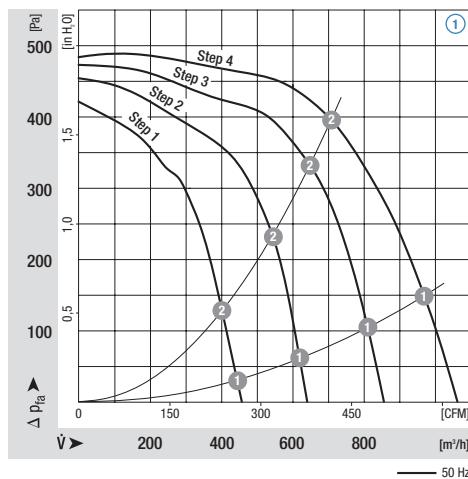
- Material:** Scroll housing with integrated terminal box made of polypropylene, talcum reinforced, colour: black (according to IEC 695 T2-2 and EN 60335-2-31); impeller made of galvanised sheet steel
 - Mounting:** EW motor (single-phase AC motor) mounted on both sides via anti-vibration mount
 - Design:** 4-step blower with external-rotor motor
 - Capacitor:** FPU (P2) integrated in terminal box and wired up ready for plug-in
 - Direction of rotation:** counter-clockwise seen on plug shell
 - Bearing:** Ball bearing (sleeve bearing as option)
 - Type of protection:** IP 20
 - Insulation class:** "F"
 - Approvals:** VDE, CE; UL upon request
- ebm-papst • Mulfingen

Nominal data		Characteristic		Voltage	Frequency	Airflow	Speed/min ⁻¹	Power input	Current draw	Capacitor	Sound pressure level	Min. backpressure	Perm. ambient temp.	Weight
Type	Motor	VAC	Hz	m ³ /h	min ⁻¹	W	A	μF/VDB	dB(A)	Pa	°C	kg		
D2E 146-HT67 -02	M2E 068-EC	(1)		230	50	1060	1850	355	1.55	8.0 / 450	66	0	-20..+50	3.6

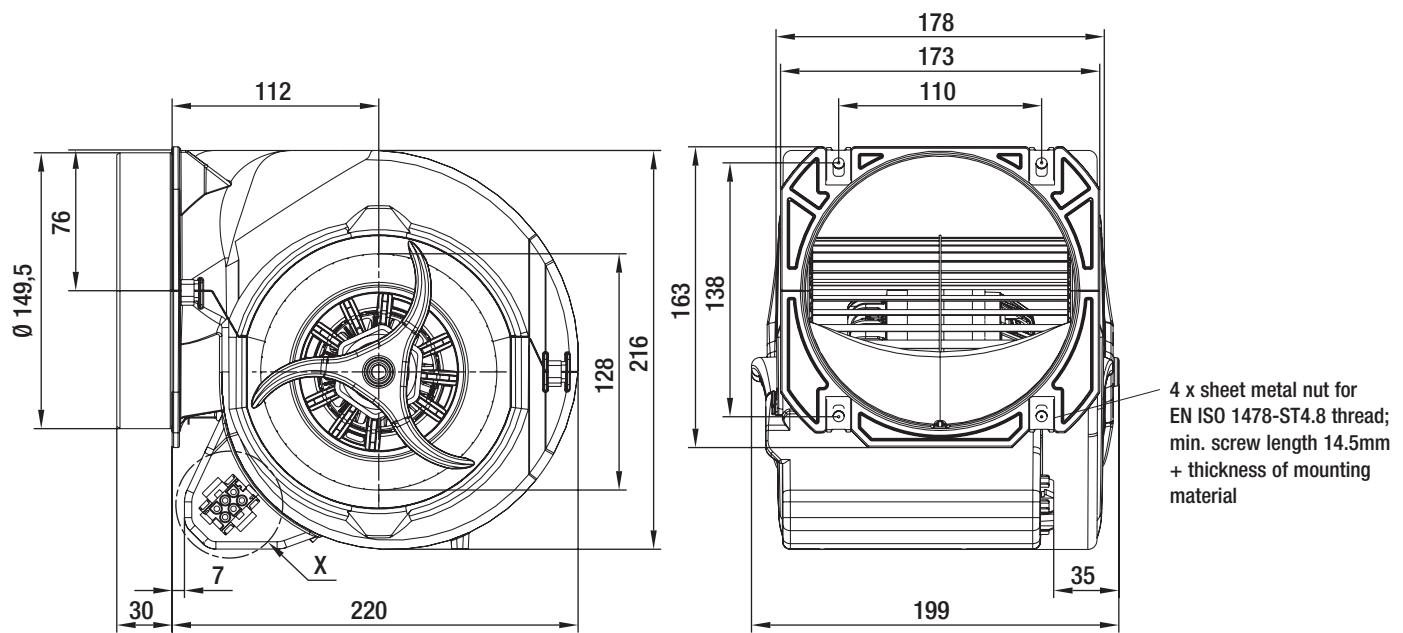
Subject to alteration

	n [min ⁻¹]	P ₁ [W]	I [A]	L _{pA} [dBA]
(1) ① Step 1	1000	192	0,88	45
(1) ② Step 1	1415	180	0,84	49
(1) ① Step 2	1375	225	1,03	54
(1) ② Step 2	1885	197	0,94	57
(1) ① Step 3	1770	268	1,20	61
(1) ② Step 3	2230	222	1,04	62
(1) ① Step 4	2075	328	1,42	66
(1) ② Step 4	2430	269	1,17	61

Characteristics



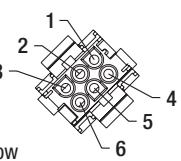
- **Safety regulations:** With integrated T.O.P. and integrated FPU (P2) capacitor in keeping with EN 60335-2-31



Detail X

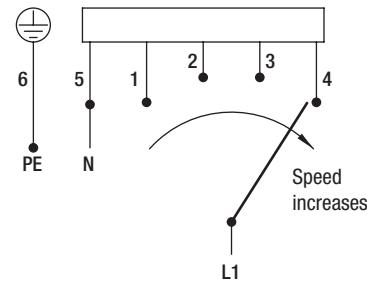
Coded plug system AMP Universal-Mate-N-Lok
Connector shell: AMP 926 682-3
6 x plug pin: AMP 926 886-1

1	= step 1 (min.)	white
2	= step 2	red
3	= step 3	grey
4	= step 4 (max.)	black
5	= N	blue
6	= PE	green / yellow



Connection diagram

The switch has to break the circuit when activated for switching



AC centrifugal blowers

Dual inlet, Ø 160



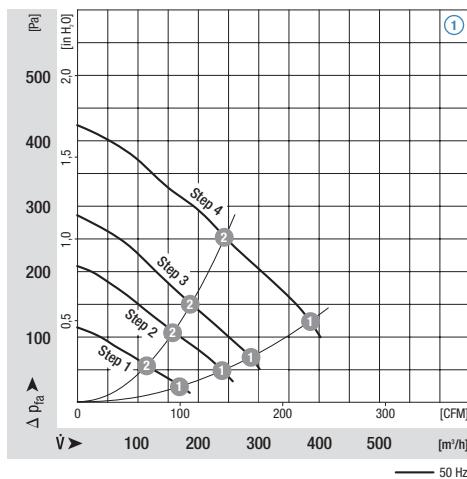
- Material:** Scroll housing with integrated terminal box made of polypropylene, talcum reinforced, colour: black (according to IEC 695 T2-2 and EN 60335-2-31); impeller made of galvanised sheet steel
 - Mounting:** SAL motor (standard external-rotor motor) mounted via brackets on one side of the scroll housing
 - Design:** 4-step blower with external-rotor motor
 - Capacitor:** FPU (P2) integrated in terminal box and wired up ready for plug-in
 - Direction of rotation:** clockwise seen on rotor
 - Bearing:** Ball bearing (sleeve bearing as option)
 - Type of protection:** IP 44
 - Insulation class:** "F"
 - Approvals:** VDE, CE; UL upon request
- ebm-papst • Mulfingen

Nominal data		Characteristic											
Type	Motor	VAC	Hz	Airflow	Frequency	Speed/min ⁻¹	Power input	Current draw	Capacitor	Sound pressure level	Min. backpressure	Perm. ambient temp.	Weight
D2E 160-FI01 -01	M2E 068-BF	①	230	50	400	1170	110	0.49	2.5 / 400	53	100	-20..+55	2.5
D2E 160-FK11 -02	M2E 068-CF	②	230	50	550	1400	180	0.80	4.0 / 400	59	150	-20..+40	3.0

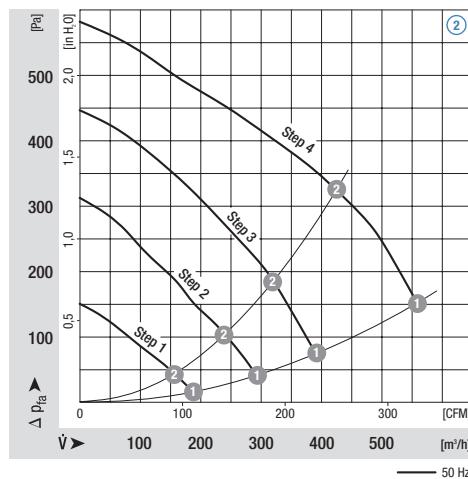
Subject to alteration

	n [min ⁻¹]	P ₁ [W]	I [A]	L _{pA} [dBA]		n [min ⁻¹]	P ₁ [W]	I [A]	L _{pA} [dBA]
① ① Step 1	555	50	0.26	30	② ① Step 1	500	76	0.38	28
① ② Step 1	835	49	0.25	36	② ② Step 1	740	75	0.37	34
① ① Step 2	765	64	0.31	38	② ① Step 2	770	96	0.46	40
① ② Step 2	1135	61	0.30	44	② ② Step 2	1115	93	0.45	44
① ① Step 3	910	74	0.35	43	② ① Step 3	1010	120	0.56	48
① ② Step 3	1345	71	0.34	48	② ② Step 3	1450	113	0.53	52
① ① Step 4	1210	108	0.47	51	② ① Step 4	1430	176	0.76	57
① ② Step 4	1735	102	0.44	55	② ② Step 4	1920	162	0.70	60

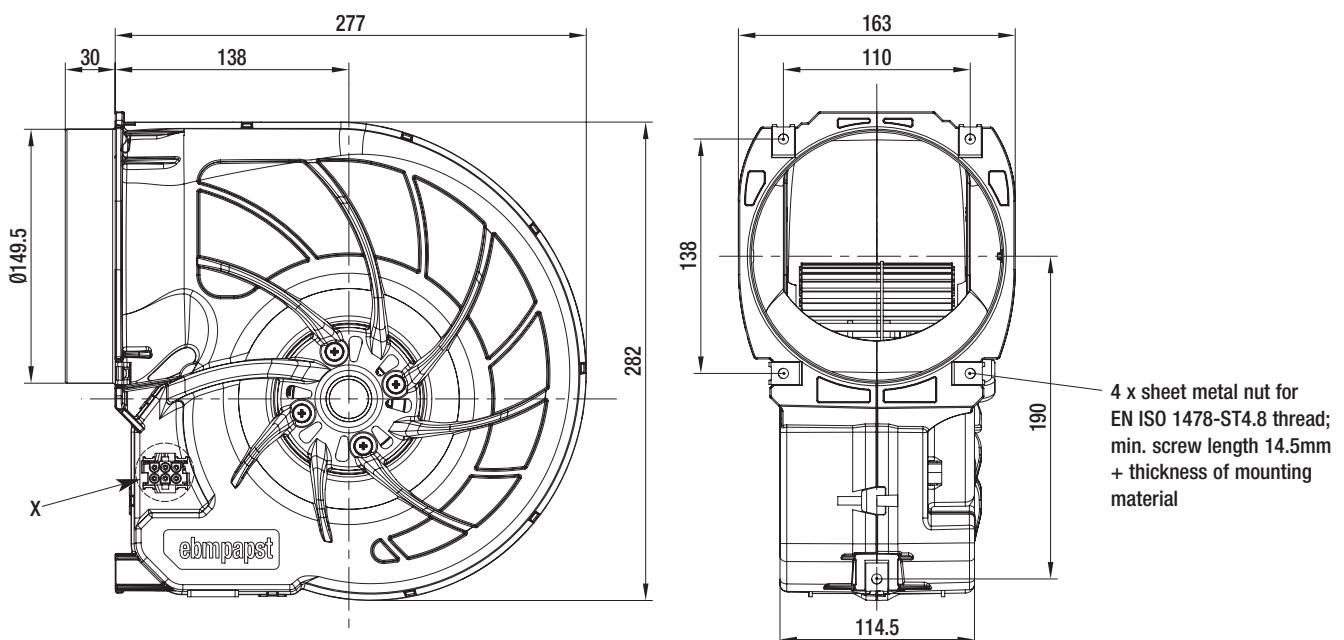
Characteristics



Characteristics



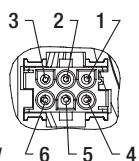
- **Safety regulations:** With integrated T.O.P. and integrated FPU (P2) capacitor in keeping with EN 60335-2-31



Detail X

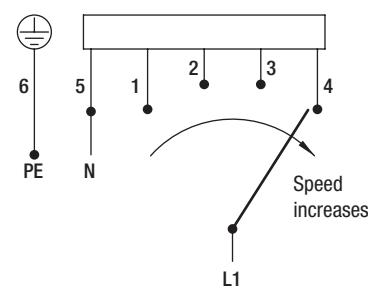
Coded plug system AMP Universal-Mate-N-Lok
Connector shell: AMP 926 682-3
6 x plug pin: AMP 926 886-1

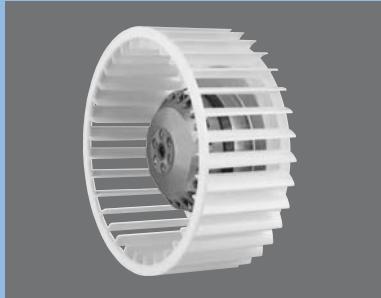
1 = step 1 (min.) white
2 = step 2 red
3 = step 3 grey
4 = step 4 (max.) black
5 = N blue
6 = PE green / yellow



Connection diagram

The switch has to break the circuit when activated for switching





Centrifugal fans with forward curved impeller

Centrifugal fans, single inlet

\varnothing 140 - \varnothing 146

19



Dual inlet blowers

Centrifugal fans forward curved

Centrifugal fans backward curved

Accessories

Subsidiaries & representatives, addresses

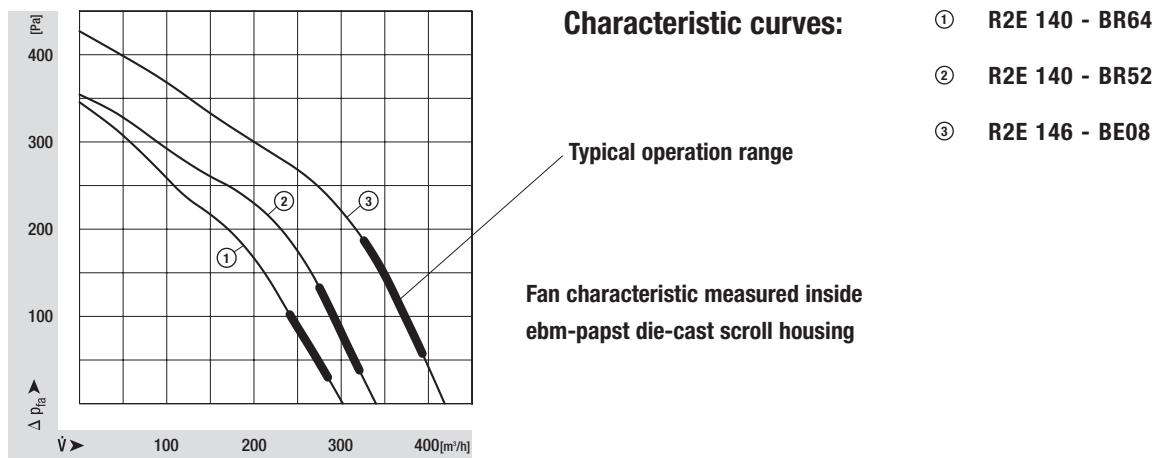
Centrifugal fans, forward curved

Forward curved centrifugal fans are mainly used in flat screen hoods, either as single fan or in pairs with opposite directions of rotation.

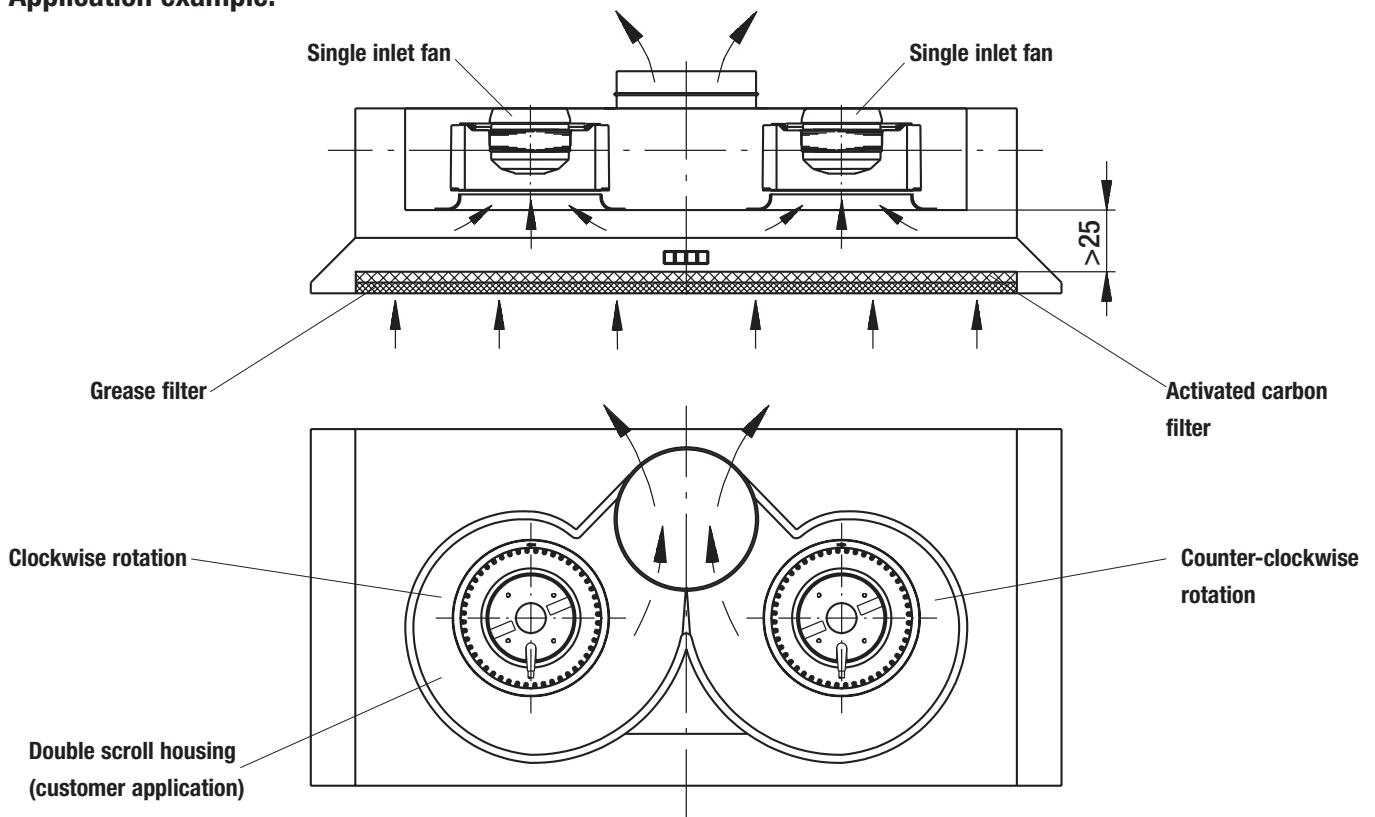
Due to their design as external-rotor motor with impeller directly pressed onto the rotor, high air performances at minimal noise and excellent installation depth can be realised.

The forward curved impeller requires a scroll housing in the hood. This is why the measuring data were established inside the ebm-papst die-cast scroll housing. Increasing pressure takes load off the motor, i.e. input power and intrinsic heat are reduced and the permissible ambient temperature can thus be increased.

The fans are driven by single-phase capacitor motors. The robust design of the external-rotor motor makes for high efficiency, good acoustic and vibration performance, and long service life. Motors in size 68 are available in 5-speed-step design, with 4 steps being the standard. In size 52, the motors are generally single-speed designs. Durable and maintenance-free ball bearings are used, though the low-noise sleeve bearing has proved to be the ideal choice for range hoods and mounting position "shaft horizontal".



Application example:



AC centrifugal fans

Single inlet, Ø 140



- **Material:** Impeller made of polypropylene - colour: nature (according to IEC 695 T2-2 and EN 60335-2-31)
- **Design:** single-step fan with external-rotor motor size 52
- **Bearing:** ball bearing (sleeve bearing as option)
- **Direction of rotation:** clockwise / counter-clockwise
- **Type of protection:** IP 44
- **Approvals:** CE; VDE and UL upon request
- **Insulation class:** "B"

ebm-papst · Mulfingen

Nominal data		Characteristic											
Type	Motor	VAC	Hz	Airflow	Speed/min ⁻¹	Power input	Current draw	Capacitor	Sound pressure level	Min. backpressure	Perm. ambient temp.	Weight	
R2E 140-BR64 -03/04	M2E 052-CA	①	230	50	300	1200	77	0.34	2.0 / 400	52	0	-20..+30	0.8
R2E 140-BR52 -03/04	M2E 052-CA	②	230	50	325	1300	75	0.33	2.0 / 400	55	0	-20..+40	0.8

Subject to alteration

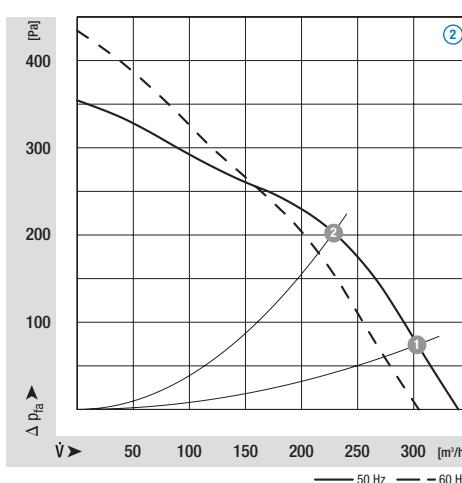
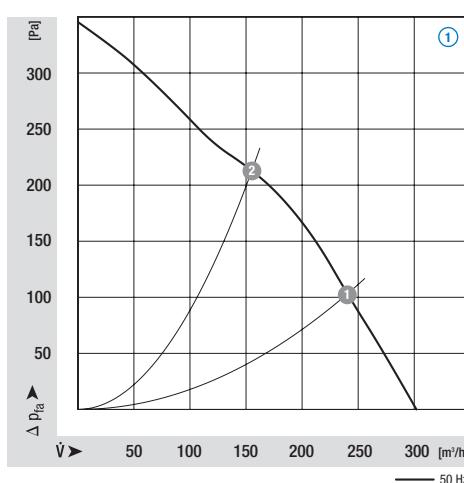
Measuring data were established inside the ebm-papst die-cast scroll housing.

	n [min ⁻¹]	P ₁ [W]	I [A]
① ①	1590	75	0,33
① ②	2070	71	0,31

	n [min ⁻¹]	P ₁ [W]	I [A]
② ①	1590	76	0,33
② ②	2040	69	0,30

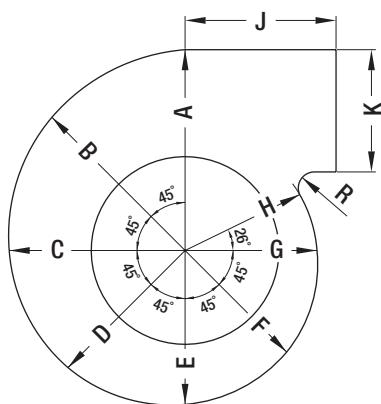
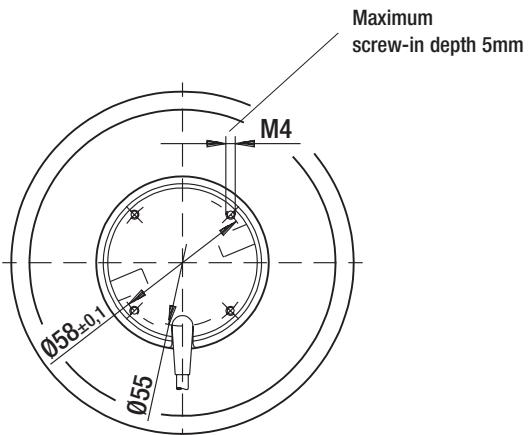
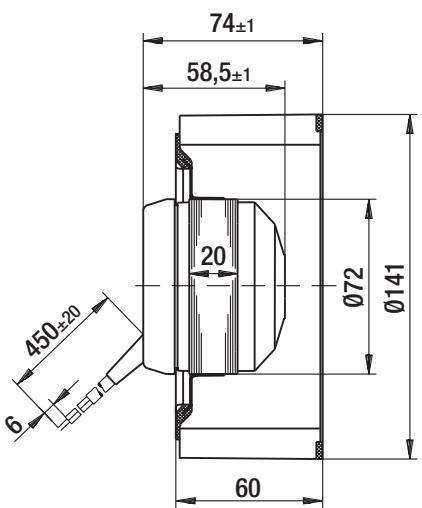
Characteristics

Characteristics



Scroll housing dimensions

Type	A	B	C	D	E	F	G	H	J	K	R
R2E 140-BR64 -0*	137	128.5	120	113	105	98	90	87	103	92	11
R2E 140-BR52 -0*	137	128.5	120	113	105	98	90	87	103	92	11



AC centrifugal fan

Single inlet, Ø 146



- **Material:** Impeller made of polypropylene - colour: nature (according to IEC 695 T2-2 and EN 60335-2-31)
- **Design:** single-step fan with external-rotor motor size 68
- **Bearing:** ball bearing (sleeve bearing as option)
- **Direction of rotation:** clockwise / counter-clockwise
- **Type of protection:** IP 44
- **Approvals:** CE; VDE and UL upon request
- **Insulation class:** "B"

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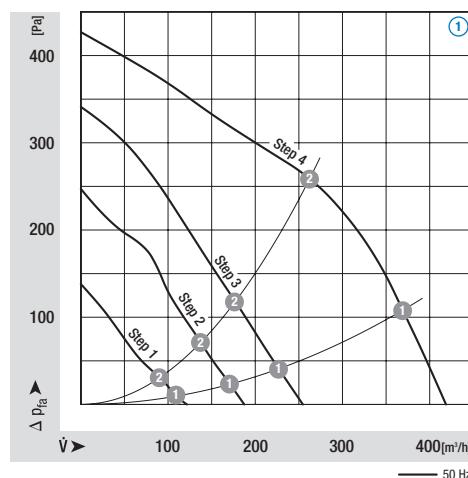
Nominal data		Characteristic											
Type	Motor	VAC	Hz	Airflow	Speed/min ⁻¹	Power input	Current draw	Capacitor	Sound pressure level	Min. backpressure	Perm. ambient temp.	Weight	
R2E 146-BE08 -25/26	M2E 068-BF	① 230 230	50 60	410 335	1420 1550	107 115	0.47 0.51	2.0 / 450 2.0 / 450	55 56	0 100	-20..+30 -20..+30	1.2	

Subject to alteration

Measuring data were established inside the ebm-papst die-cast scroll housing.

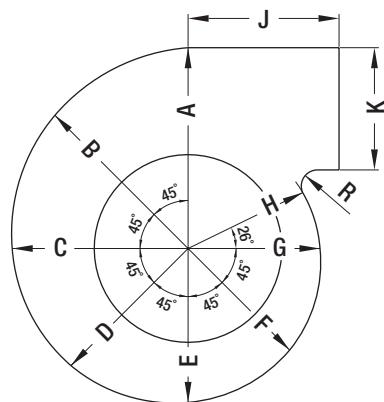
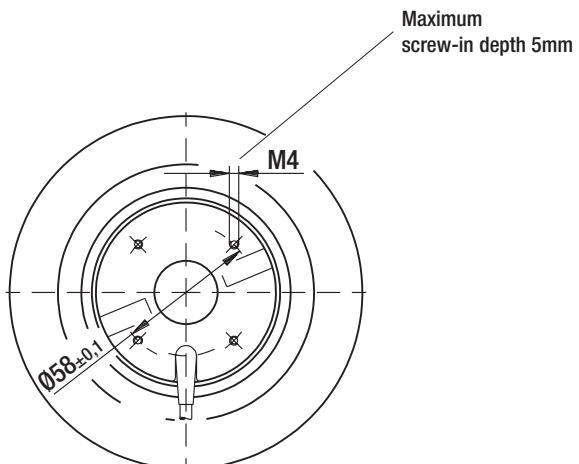
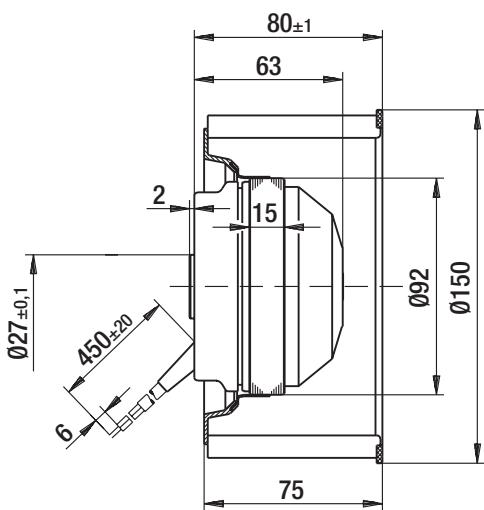
	n [min ⁻¹]	P ₁ [W]	I [A]	L _{pA} [dBA]
① ① Step 1	490	46	0.22	22
① ② Step 1	705	45	0.21	27
① ① Step 2	755	55	0.26	34
① ② Step 2	1080	53	0.25	40
① ① Step 3	1005	67	0.31	43
① ② Step 3	1450	63	0.29	48
① ① Step 4	1725	101	0.44	56
① ② Step 4	2170	87	0.38	58

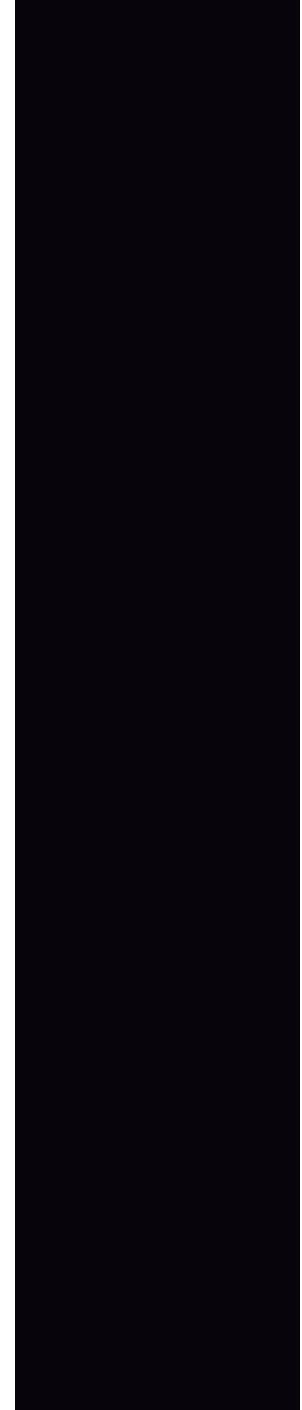
Characteristics



Scroll housing dimensions

Type	A	B	C	D	E	F	G	H	J	K	R
R2E 146-BE08 -2*	137	128.5	120	113	105	98	90	87	103	92	11





Centrifugal fans with backward curved impeller

Centrifugal fans, backward curved

\varnothing 190 - \varnothing 250

27



Dual inlet blowers

Centrifugal fans forward curved

Centrifugal fans backward curved

Accessories

Subsidiaries & representatives, addresses

Centrifugal fans, backward curved

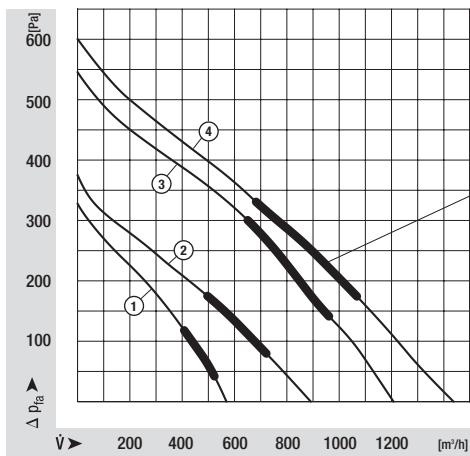
Centrifugal fans with backward curved impeller are mainly used in substructure hoods and outside wall blowers.

As the impeller available in different dimensions is directly press-fitted on the external-rotor motor, very small installation depths are realised.

The backward curved impeller makes for very good efficiency, and so very high airflows can be handled with comparatively small motors. Another advantage of the design lies in the fact that no special scroll housings are required. However, the mounting space dimensions for the fan should be at least 1.8 x impeller diameter.

Maximal load of the motor and thus highest intrinsic heat is reached at medium pressure range. These figures are already taken care of in the catalogue data. The measuring values were collected using the inlet nozzles available as accessory. The inlet nozzle should dip into the impeller by about 2mm.

These fans are driven by single-phase capacitor motors. The robust design of the external-rotor motors makes for high efficiency, good acoustic and vibration performance and long service life. The motors are maximally available in 5-speed-step design and come fitted with durable and maintenance-free ball bearings. However, the low-noise sleeve bearing design is the recommended choice for range hoods and mounting position "shaft horizontal".

**Characteristic curves:**

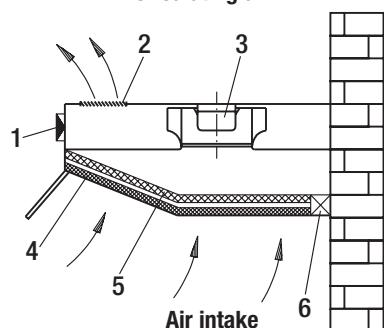
- ① R2E 190 - A026
- ② R2E 220 - AA40
- ③ R2E 225 - BD92
- ④ R2E 250 - AS47

Typical operation range

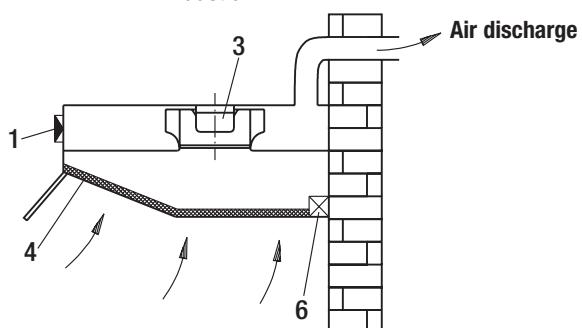
Fan characteristic established with
inlet nozzle outside the range hood

Application example:

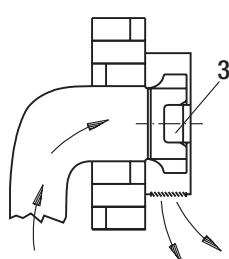
Circulating air:



Exhaust air:



Outside wall:



1. Operating element
2. Opening for circulating air
3. ebm-papst fan
4. Grease filter
5. Activated carbon filter
6. Integrated illumination

AC centrifugal fans

Backward curved, Ø 190 / 220



- **Material:** Plastic impeller made of PA 6.6, fibre-glass reinforced VO, round sheet metal plate injected
- **Bearing:** Ball bearing (sleeve bearing as option)
- **Direction of rotation:** clockwise seen on rotor
- **Type of protection:** IP 44
- **Approvals:** CE; VDE and UL upon request
- **Insulation class:** "B"

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Nominal data

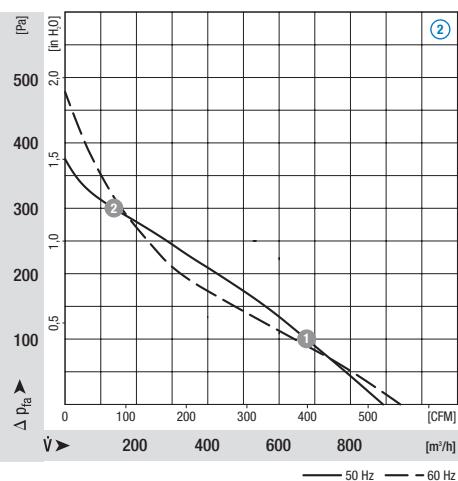
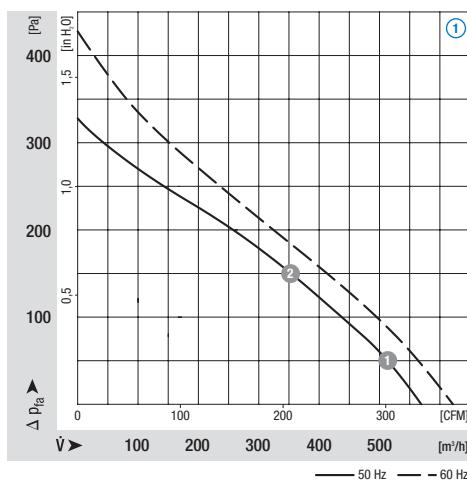
Type	Motor	VAC	Hz	Airflow	Speed/min ⁻¹	Power input	Current draw	Capacitor	Sound pressure level	Perm. ambient temp.	Weight
R2E 190-A026 -C2	M2E 068-BF	(1) 230 230	50 60	570 620	2500 2700	58 75	0.26 0.34	2.0/ 400 2.0/ 400	62 64	-20..+50 -20..+55	1.2
R2E 220-AA40 -F5	M2E 068-BF	(2) 230 230	50 60	860 900	2600 2700	85 90	0.38 0.40	3.0/ 400 2.0/ 400	73 74	-20..+40 -20..+40	1.3

Subject to alteration

n [min ⁻¹]		P ₁ [W]
(1) ①	2490	59
(1) ②	2410	61

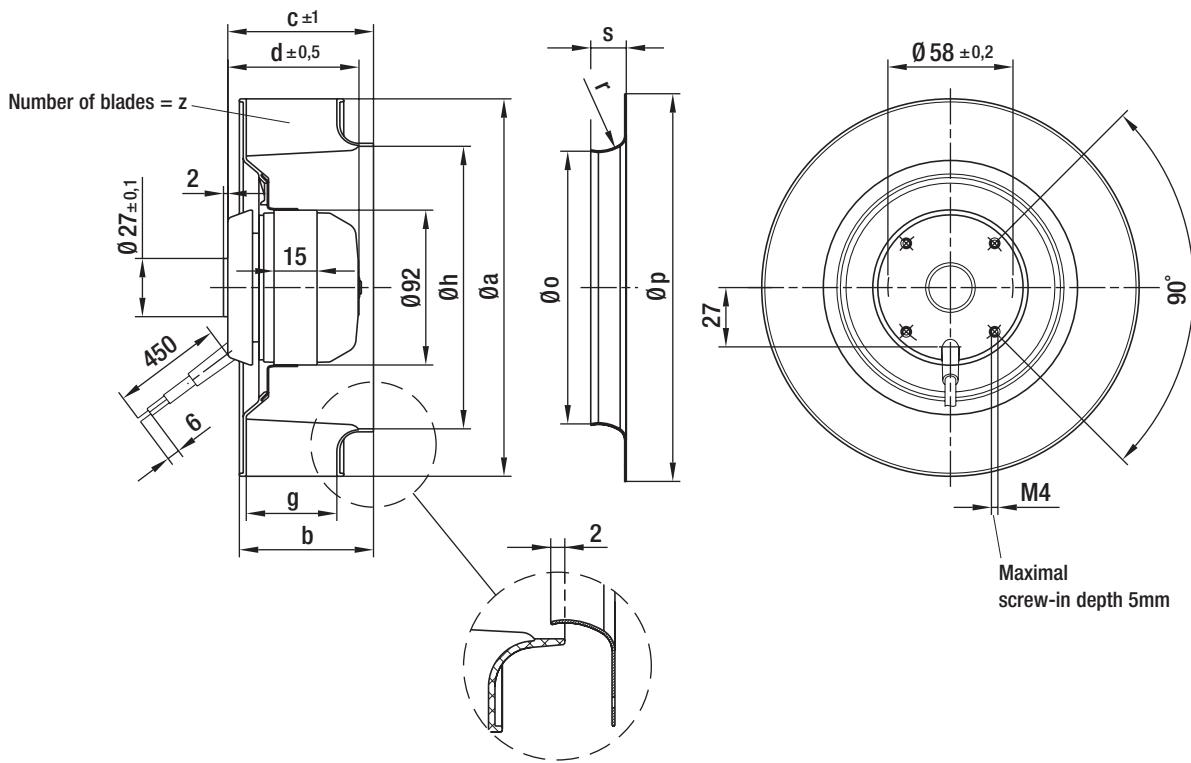
n [min ⁻¹]		P ₁ [W]
(2) ①	2390	95
(2) ②	2490	90

Characteristics



Dimensions

Type	a	b	c	d	g	h	o	p	r	s	z	Inlet nozzle
R2E 190-A026 -C2	190	62.8	68.5	62.7	44.6	131	125.5	170	10	14	7	09576-2-4013
R2E 220-AA40 -F5	220	63.0	71.0	63.0	44.0	159	155.0	252	22	21	11	09609-2-4013



AC centrifugal fans

Backward curved, Ø 225 / 250



- **Material:** Plastic impeller made of PA 6.6, fibre-glass reinforced VO, round sheet metal plate injected
- **Bearing:** Ball bearing (sleeve bearing as option)
- **Direction of rotation:** clockwise seen on rotor
- **Type of protection:** IP 44
- **Approvals:** CE; VDE and UL upon request
- **Insulation class:** "F"

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Nominal data		Characteristic											
Type	Motor	VAC	Hz	Airflow	Speed/min ⁻¹	Power input	Current draw	Capacitor	Sound pressure level	Perm. ambient temp.	Weight		
R2E 225-BD92 -53	M2E 068-DF	(1) 230 230	50 60	1200 1340	2650 2950	135 200	0.60 0.88	4.0 / 450 4.0 / 450	69 71	-20..+60 -20..+60	2.1		
R2E 250-AS47 -32	M2E 068-EC	(2) 230 230	50 60	1450 1490	2600 2700	155 215	0.70 0.95	5.0 / 400 5.0 / 400	75 76	-20..+70 -20..+45	3.1		

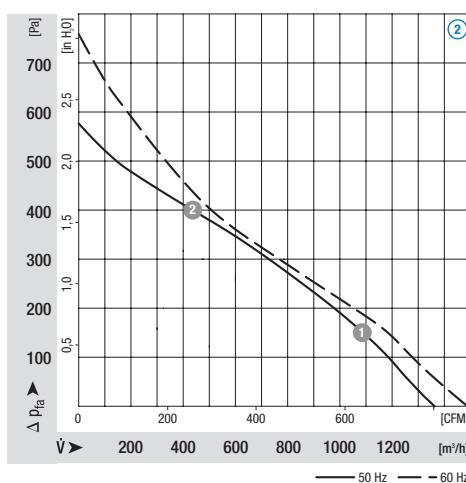
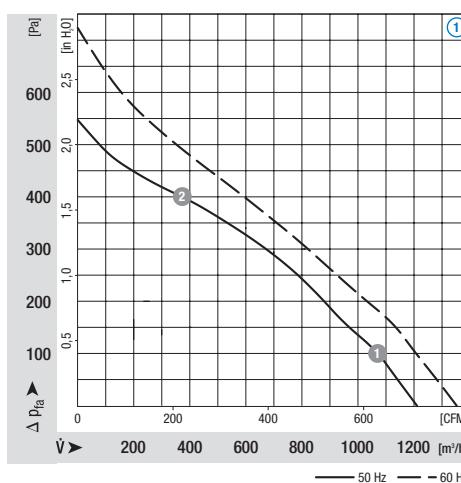
Subject to alteration

n [min ⁻¹]		P ₁ [W]
(1) ①	2610	146
(1) ②	2650	138

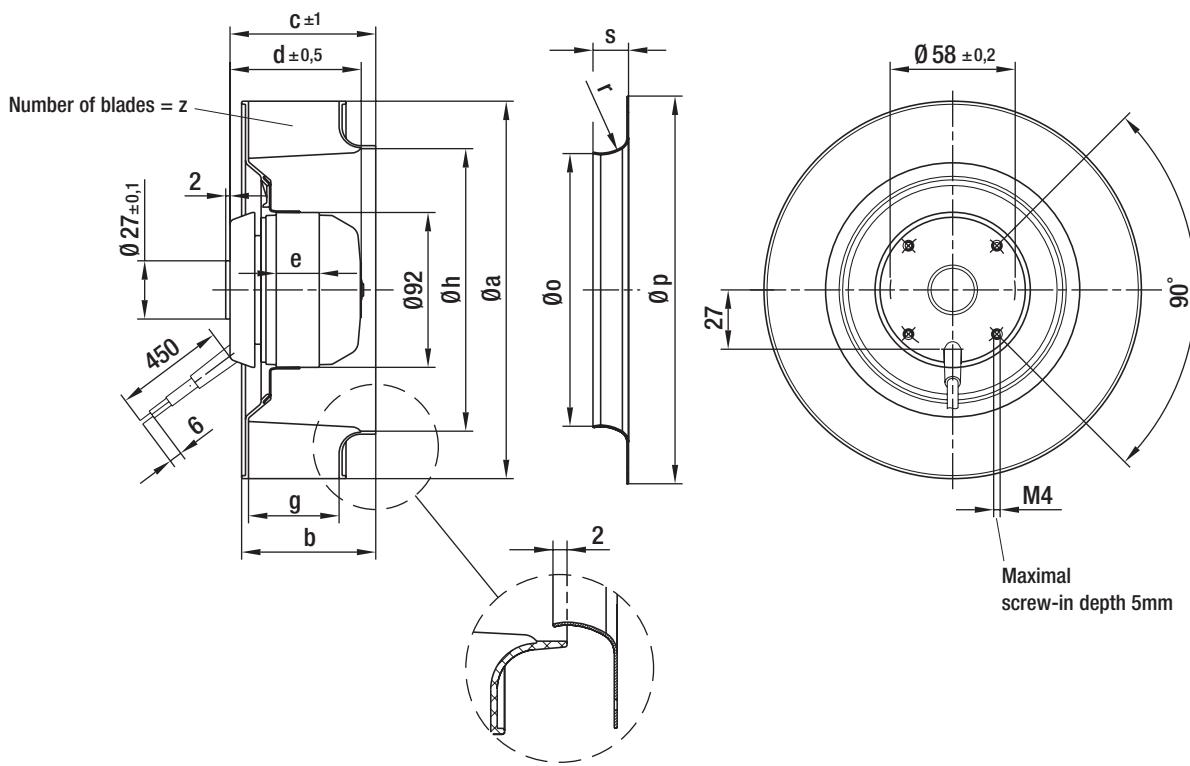
n [min ⁻¹]		P ₁ [W]
(2) ①	2400	152
(2) ②	2400	152

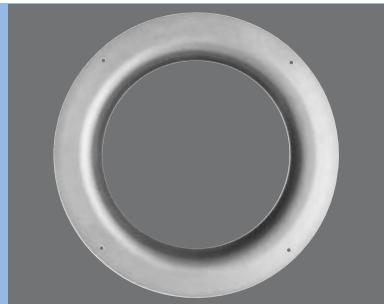
Characteristics

Characteristics



Type	a	b	c	d	e	g	h	o	p	r	s	z	Inlet nozzle
R2E 225-BD92 -53	225	89.3	99.0	83.0	35	62.6	153	146.0	223	25	28	7	96358-2-4013
R2E 250-AS47 -32	250	84.3	99.0	97.5	42	56.0	172	164.5	255	28	31	11	96359-2-4013



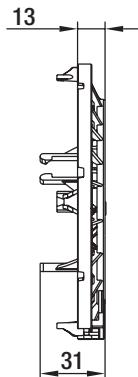
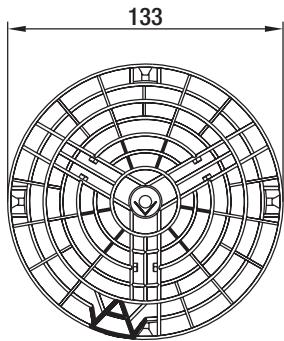


Accessories

Guard grilles	36
Connection leads	37
Inlet nozzles	38
Capacitors	40



Accessories



- **Material:** PA 6.6, fibre-glass reinforced GV25 VO, black
- **Features:** triangular, raised contour
- **Suitable for:** D2E 140 -HR
D2E 146 -KA
D2E 146 -KB
D2E 146 -HR
D2E 146 -HS
D2E 146 -HT

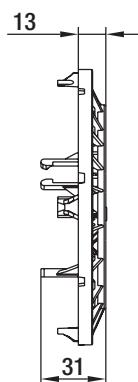
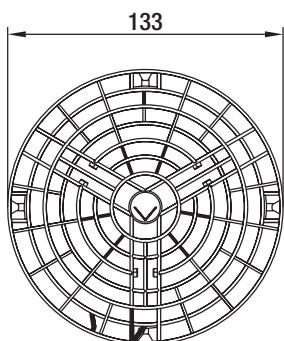
ebm-papst • Mulchingen

Guard grille for dual inlet centrifugal blowers with plastic housing (for cable exit side of blower)

Part no.

34265-2-2929

Subject to alteration



- **Material:** PA 6.6, fibre-glass reinforced GV25 VO, black
- **Features:** Outer two rings are closed
- **Suitable for:** D2E 140 -HR
D2E 146 -KA
D2E 146 -KB
D2E 146 -HR
D2E 146 -HS
D2E 146 -HT

ebm-papst • Mulchingen

Guard grille for dual inlet centrifugal blowers with plastic housing (for side opposite cable exit)

Part no.

38182-2-2929

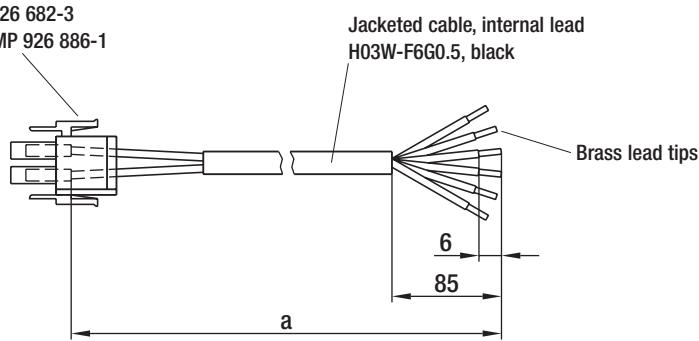
Subject to alteration

Accessories

AMP-Universal-Mate-N-Lok suitable for:

Plug shell AMP 926 682-3

Connector pin AMP 926 886-1



- **Suitable for:**

D2E 140 -HR; D2E 146 -KA; D2E 146 -KB;
D2E 146 -HR; D2E 146 -HS; D2E 146 -HT;
D2E 160 -FI; D2E 160 -FK

- **Pin configuration:**

- 1 = step 1 (white)
- 2 = step 2 (red)
- 3 = step 3 (grey)
- 4 = step 4 (black)
- 5 = N (blue)
- 6 = PE (green / yellow)

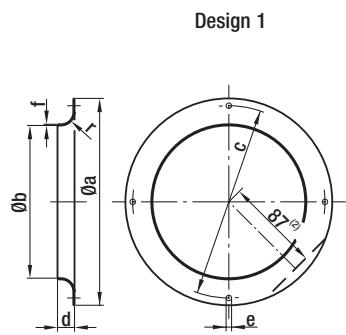
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Connection lead for centrifugal blower

Part no.	a
21956-4-1040	300
21957-4-1040	450
21958-4-1040	650
21959-4-1040	1000

Subject to alteration

Accessories:



- **Material:** Galvanised sheet steel

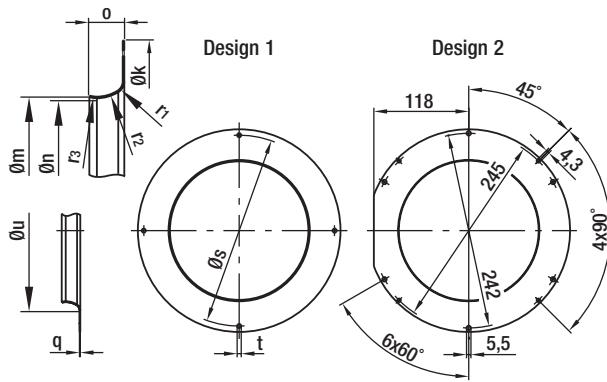
ebm-papst • Mulchingen

Inlet nozzles for forward curved centrifugal fans

Part no.	Size	Design	a	b	c	d	e	f	r
09576-2-4013	140/146	1	170	125.5	158	14	4x4.5	1.25	10.0

Subject to alteration

Accessories



- **Material:** Galvanised sheet steel

ebm-papst · Mulfingen

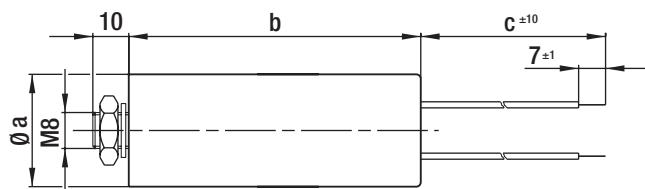
Inlet nozzles for backward curved centrifugal fans

Part no.	Size ⁽¹⁾	Design	k	m	n	o	q	r ₁	r ₂	r ₃	s	t	u
09576-2-4013	190 (K)	1	170	125.5	---	14.0	1.25	10.0	---	---	158	4x4.5	146
09609-2-4013	220 (K)	2	252	155.0	---	21.0	0.80	22.0	---	---	---	---	199
96358-2-4013	225 (K)	1	223	146.0	---	28.0	1.50	25.0	---	---	210	4x4.5	196
96359-2-4013	250 (K)(S)	1	255	164.5	---	31.0	1.50	28.0	---	---	240	4x4.5	221

Subject to alteration

⁽¹⁾ Size with index for fan material (K) = plastic, (S) = sheet steel

Accessories



- **Material:** Housing made of thermoplastic
- **Connection lead:** Multi-wired PVC core lead 0.5mm² (16x 0.2mm²) with brass lead tips
- **Approvals:** VDE according to DIN EN 60252 (VDE 0560/8)
- **Life expectancy:**
400 VDB; -25...+85°C; 30,000 hrs; class A
450 VDB; -25...+85°C; 10,000 hrs; class B

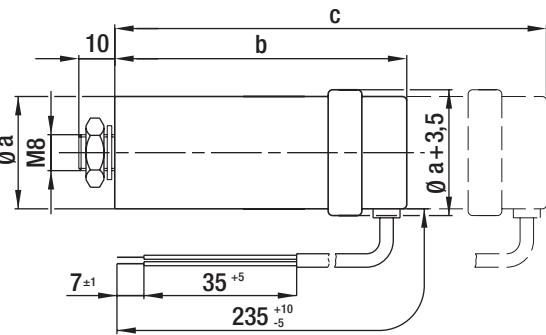
ebm-papst · Mulfingen

MKP motor capacitors (without fuse)

Part no.	Capacity	a	b (max.)	c
02100-4-7320	1.0 µF	25-28	58	235
99282-4-7320	1.5 µF	25-28	58	235
99283-4-7320	2.0 µF	25-28	58	235
02103-4-7320	2.5 µF	25-28	70	235
68462-4-7320	3.0 µF	25-28	70	235
99284-4-7320	4.0 µF	28-32	58	235
02101-4-7320	5.0 µF	30-36	70	235
99285-4-7320	6.0 µF	30-36	70	235
66788-4-7320	7.0 µF	30-36	72	100
99286-4-7320	8.0 µF	35-40	72	235
99287-4-7320	10.0 µF	35-40	72	200
66786-4-7320	12.0 µF	40	72	100
30457-4-7320	14.0 µF	40-45	92	150
50090-4-7320	16.0 µF	35-40	95	100
90034-4-7320	20.0 µF	40	95	235
90025-4-7320	25.0 µF	40	120	235

Subject to alteration

Accessories



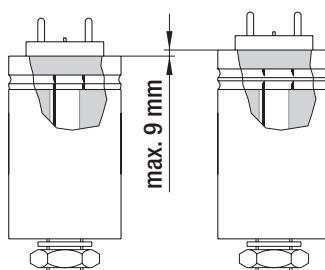
- **Material:** Plastic cap, aluminium bell
- **Designation:** FPU or P2 according to IEC 252 (inflammable, explosion-proof, circuit-breaking)
- **Approvals:** VDE according to DIN EN 60252 (VDE 0560/8)
- **Life expectancy:**
420 VDB; -25...+85°C; 30,000 hrs; class A
470 VDB; -25...+85°C; 10,000 hrs; class B
500 VDB; -25...+85°C; 3,000 hrs; class C

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MKP motor capacitors FPU or P2 (with fuse)

Part no.	Capacity	a	b (max.)	c (max.)
02151-4-7320	1.0 µF	25-30	77	92
02155-4-7320	1.5 µF	25	77	92
02156-4-7320	2.0 µF	25	77	92
02159-4-7320	2.5 µF	30	71	92
02160-4-7320	3.0 µF	30	71	92
02161-4-7320	4.0 µF	25-30	104	135
02162-4-7320	5.0 µF	25-30	104	113
02163-4-7320	6.0 µF	30	101	110
02164-4-7320	7.0 µF	30-35	101	110
02165-4-7320	8.0 µF	30-35	102	111
02166-4-7320	10.0 µF	35	96	110
02167-4-7320	12.0 µF	35	96	110
90026-4-7320	14.0 µF	40	130	139
02168-4-7320	16.0 µF	40	96	130
02169-4-7320	20.0 µF	40	116	130
02170-4-7320	25.0 µF	40-45	116	130

Subject to alteration



- **Anti-ripping protection:** The housing elongates by maximally 9mm. The protection device reacts to overload and has the generated overload rip the internal lead at a predetermined breaking point.
- **Installation:** c is the overall dimension of the capacitor that needs to be taken into account for installation. However, the capacitor design varies from manufacturer to manufacturer. Either 9mm elongation is added to dimension b, or this elongation is already integrated in the capacitor dimension.

-  fan agent
-  compact fan agent
-  motor specialist
-  motor agent

distributors, agencies and subsidiaries

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