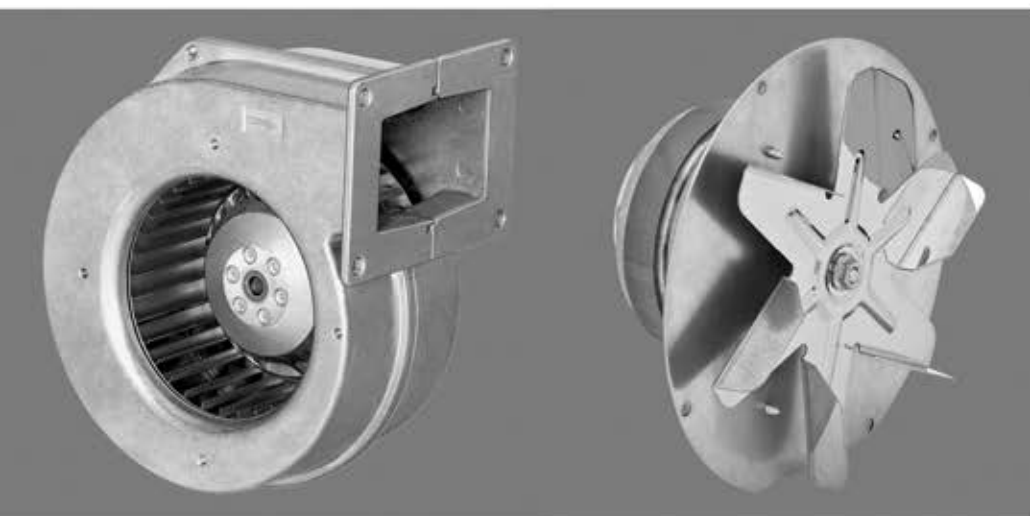




Quiet and reliable output
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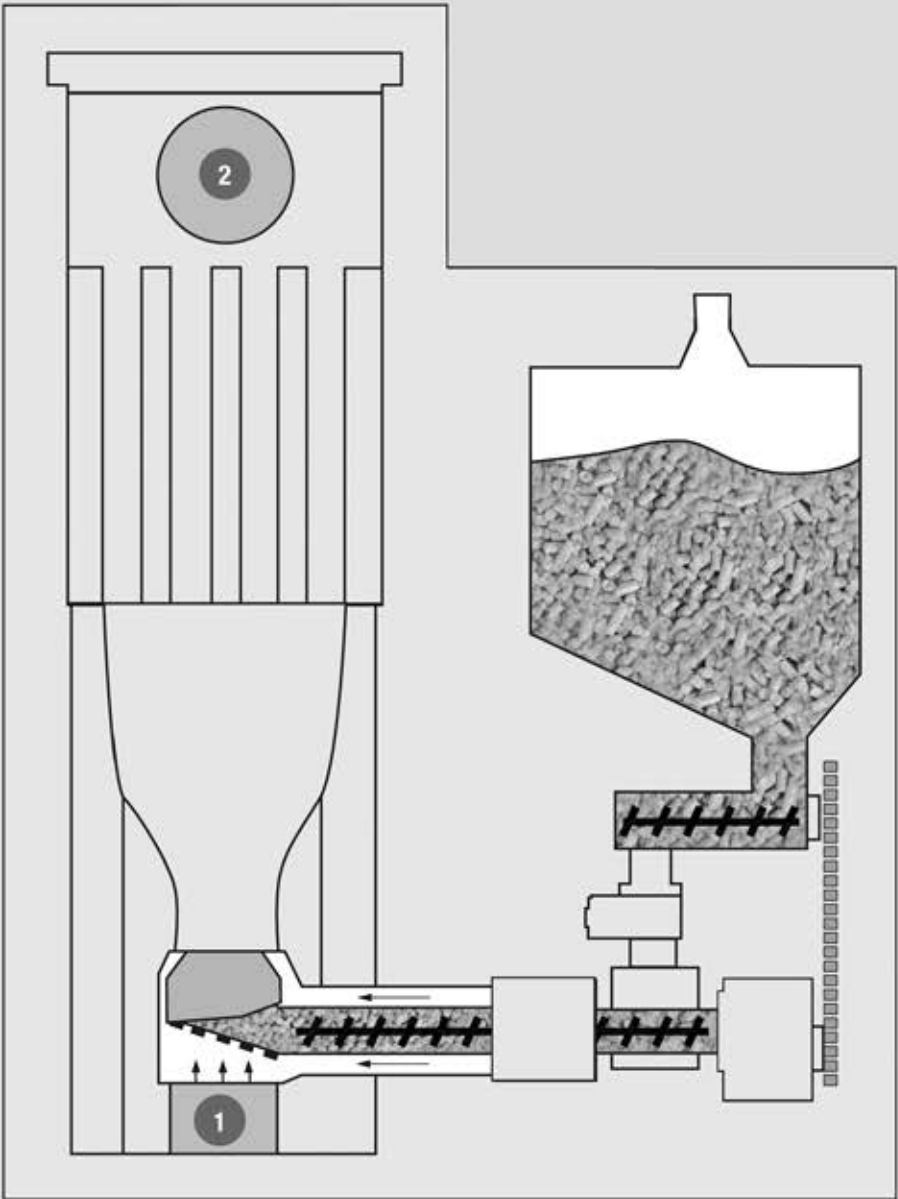
Solid fuel heater manufacturers can count on ebm-papst for complete solutions from a single source. Our product range for wood pellet heaters and wood chip ovens includes intake air fans and customized exhaust air fans for exhaust gas discharge.



Intake air blower



Exhaust air fans



AC centrifugal blower (fresh air)

single inlet, Ø 108



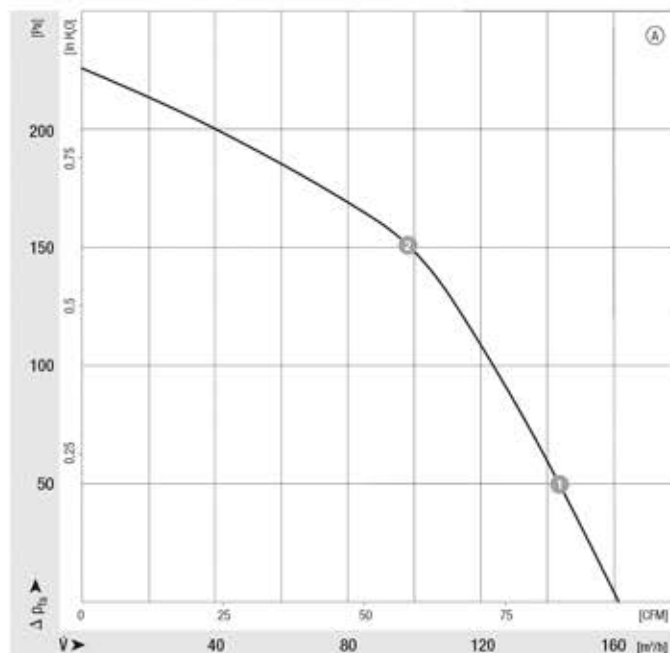
- **Material:** Housing: Die-cast aluminium
Impeller: Galvanised sheet steel
Rotor: Partially cast in aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nenndaten

Type	Motor	Curve	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Min. backpressure	Perm. amb. temp.	Mass	Electr. connection
			VAC	Hz	m³/h	rpm	W	A	µF/VDB	dB(A)	Pa	°C	kg	p. 40
G2E 108-AG63 -01	M2E 052-BF	Ⓐ	230	50	160	1850	30	0,14	1,0 / 400	56	0	-25...+85	1,3	A1)

subject to alterations

Curves



Air performance measured as per: ISO 5801, Installation category A, in ebm-papst scroll housing without protection against accidental contact

Suction-side noise levels: L_{wA} as per ISO 13347, L_{pA} measured at 1 m distance to fan axis

The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

With any deviation to the standard setup, the specific values have to be checked and re-viewed once installed or fitted!

For detailed information see page 42 ff.

	n [rpm]	P ₁ [W]	I [A]
Ⓐ ①	2050	28	0,12
Ⓐ ②	2400	24	0,11

EC centrifugal blower (fresh air)

single inlet, Ø 120



- **Material:** Housing: Die-cast aluminium
Impeller: Hot-dip galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

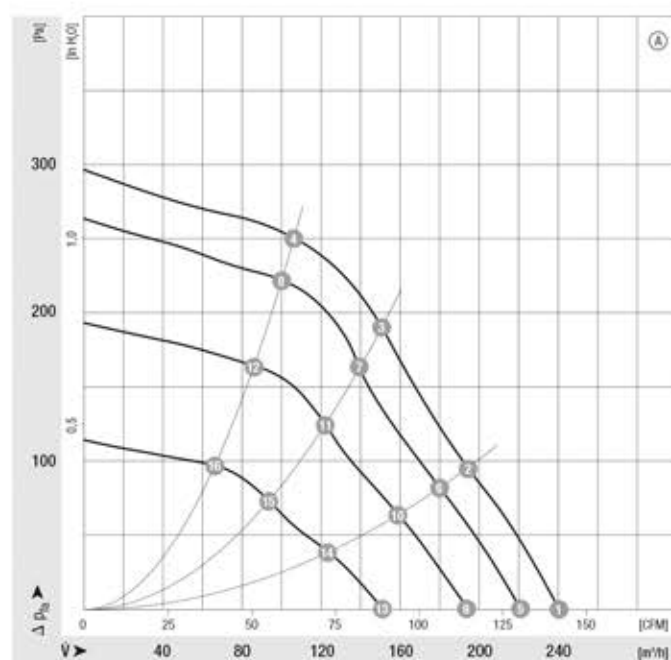
Nennenden

Type	Motor	Curve	Nominal voltage	Frequency	Air flow	Speed/rpm	Max. Power input ⁽¹⁾	Max. Current draw ⁽¹⁾	Sound pressure level	Min. backpressure	Perm. amb. temp.	Mass	Electr. connection
			VAC	Hz	m³/h	rpm	W	A	dB(A)	Pa	°C	kg	p. 41
G3G 120-BB03 -02	M3G055-BD	Ⓐ	1~230	50/60	240	2200	41	0,30	62	0	-25..+60	1,8	H1)

subject to alterations

(1) Nominal data in operating point with maximum load and 230 VAC

Curves



Air performance measured as per: ISO 5801, Installation category A, in ebm-papst scroll housing without protection against accidental contact

Suction-side noise levels: L_{wA} as per ISO 13347, L_{pA} measured at 1 m distance to fan axis

The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

With any deviation to the standard setup, the specific values have to be checked and re-viewed once installed or fitted!

For detailed information see page 42 ff.

	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]
Ⓐ 1	2200	41	0,30	62
Ⓐ 2	2320	34	0,25	59
Ⓐ 3	2440	28	0,20	57
Ⓐ 4	2600	20	0,15	57
Ⓐ 5	2060	34	0,25	59
Ⓐ 6	2190	29	0,20	57
Ⓐ 7	2295	24	0,20	55
Ⓐ 8	2445	18	0,15	54
Ⓐ 9	1830	24	0,20	54
Ⓐ 10	1920	20	0,15	52
Ⓐ 11	2010	17	0,15	51
Ⓐ 12	2115	13	0,10	51
Ⓐ 13	1430	13	0,10	48
Ⓐ 14	1500	12	0,10	45
Ⓐ 15	1580	10	0,10	44
Ⓐ 16	1640	8	0,10	44

AC radial fan (exhaust air)

single inlet, Ø 180



- **Material:** Impeller made of corrosion-resistant stainless steel
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nenndaten

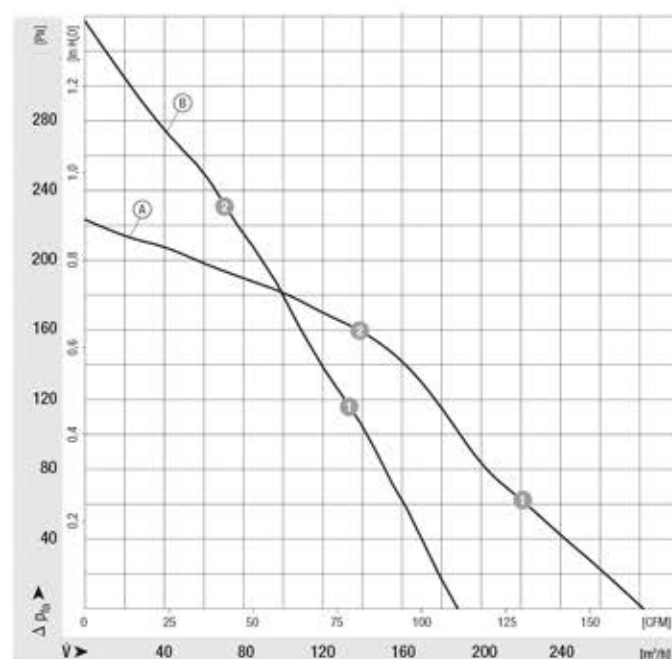
Type	Motor	Curve	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Min. backpressure	Perm. amb. temp.	Mass	Electr. connection
			VAC	Hz	m³/h	rpm	W	A	µF/VDB	dB(A)	Pa	°C	kg	p. 40
R2E 180-CF91 -**	M2E 068-BF	Ⓐ	230	50	280	1910	37	0,16	1,0 / 400	58	0	-25..+100	1,9	A1)
		Ⓑ	230	50	190	2085	35	0,15	1,0 / 400	59	0	-25..+100	1,9	A1)

subject to alterations

Ⓐ measured without scroll housing

Ⓑ measured in ebm-papst scroll housing

Curves



Air performance measured as per: ISO 5801, Installation category A, without scroll housing respectively in ebm-papst scroll housing without protection against accidental contact

Suction-side noise levels: $L_{w,s}$ as per ISO 13347, $L_{p,s}$ measured at 1 m distance to fan axis

The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

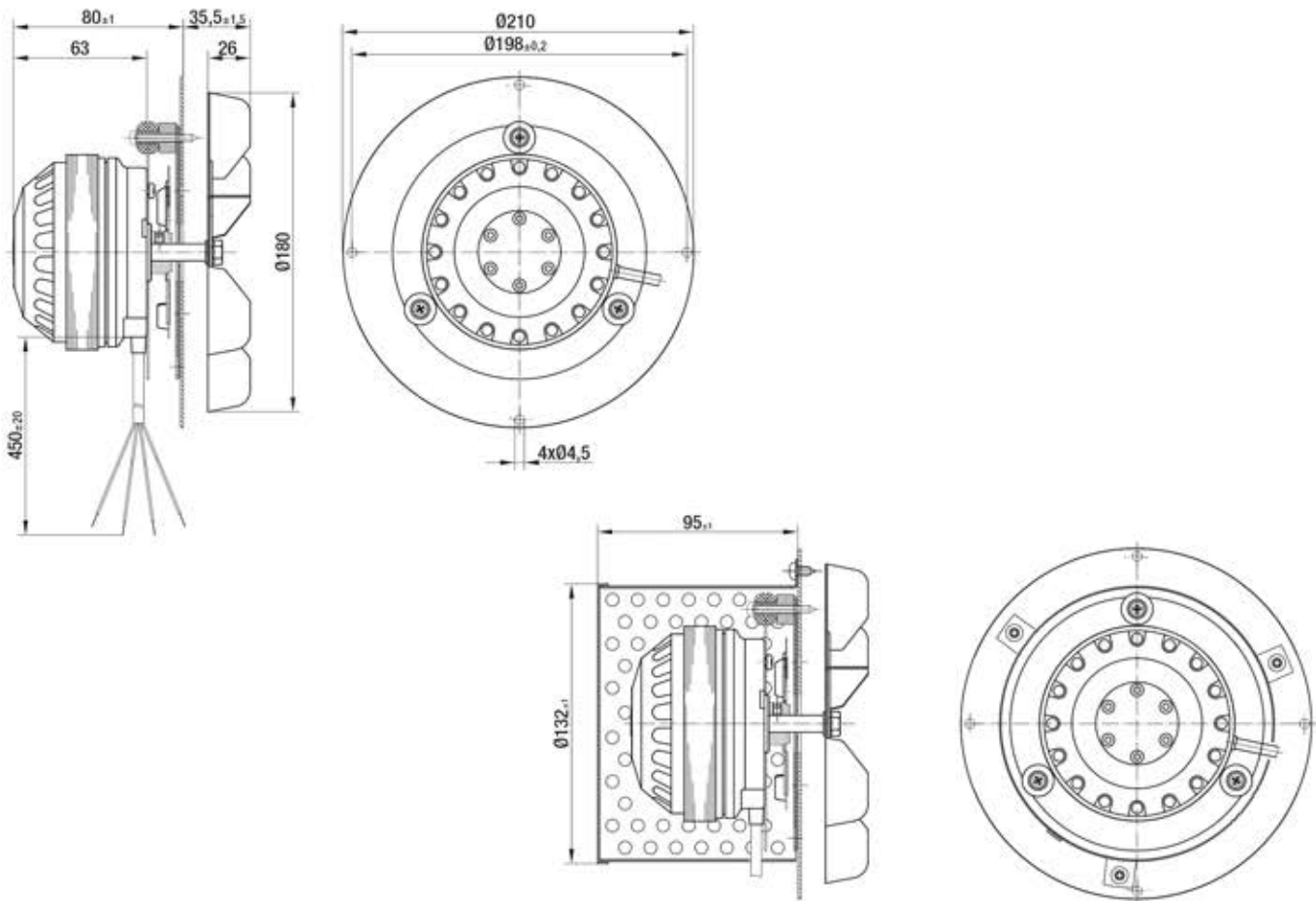
With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted!

For detailed information see page 42 ff.

	n [rpm]	P ₁ [W]	I [A]
Ⓐ ①	1910	37	0,16
Ⓐ ②	2180	34	0,15
Ⓑ ①	2250	33	0,15
Ⓑ ②	2430	31	0,14

- **Motor protection:** TOP wired internally
- **Standard:** Speed monitoring via Hall IC
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE

Selection  			
Type	without motor protection hood	with motor protection hood	
R2E 180-CF91 -**	R2E 180-CF91 -01	R2E 180-CF91 -05	



AC radial fan (exhaust air)

single inlet, Ø 210

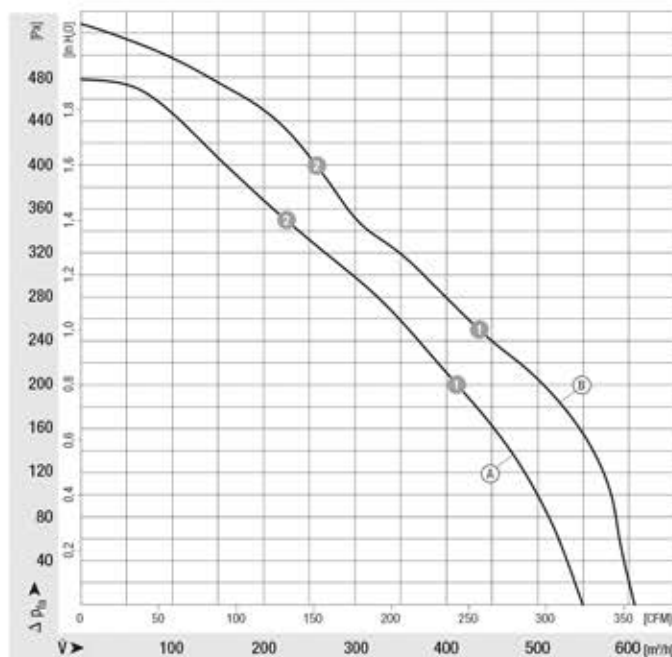


- **Material:** Impeller made of corrosion-resistant stainless steel
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nomdaten		Curve	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Min. backpressure	Perm. amb. temp.	Mass	Electr. connection
Type	Motor		VAC	Hz	m³/h	rpm	W	A	µF/VDB	dB(A)	Pa	°C	kg	p. 40
R2E 210-AA34 -**	M2E 068-DF	Ⓐ	230	50	550	2550	100	0,45	2,0 / 450	64	0	-25...+90	2,9	A1)
R2E 210-AB34 -**	M2E 068-DF	Ⓑ	230	50	605	2600	120	0,60	2,5 / 400	69	0	-25...+75	3,1	A1)

subject to alterations Ⓐ Ⓑ measured without scroll housing

Curves



Air performance measured as per: ISO 5801, Installation category A, without scroll housing

	n [rpm]	P ₁ [W]	I [A]
Ⓐ ①	2540	99	0,43
Ⓐ ②	2660	83	0,36
Ⓑ ①	2565	126	0,58
Ⓑ ②	2625	112	0,53

Suction-side noise levels: L_{WA} as per ISO 13347, L_{pA} measured at 1 m distance to fan axis

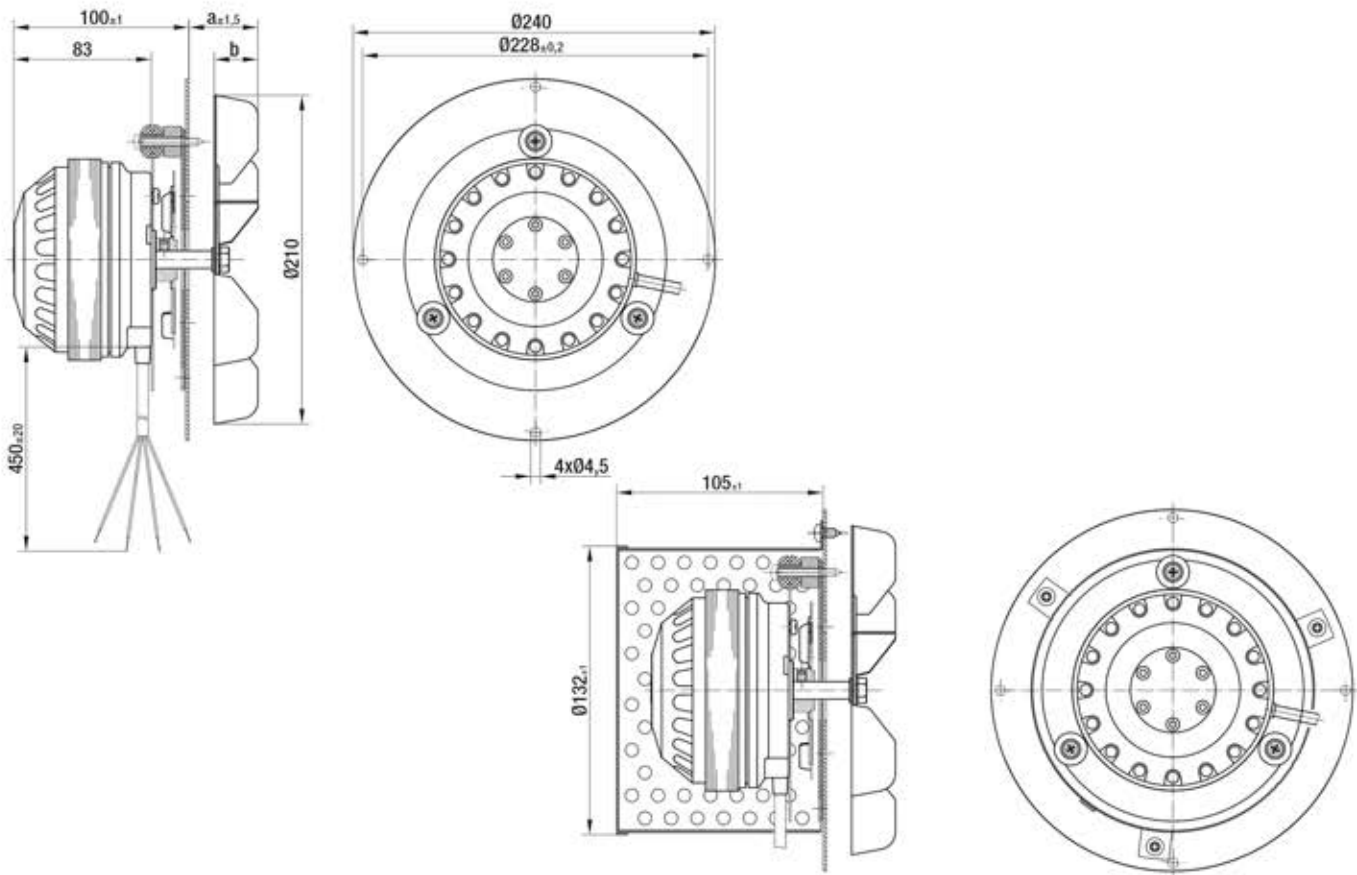
The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted!

For detailed information see page 42 ff.

- **Motor protection:** TOP wired internally
- **Standard:** Speed monitoring via Hall IC
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE

Selection			Dimensions	
	without motor protection hood	with motor protection hood	a	b
R2E 210-AA34 -**	R2E 210-AA34 -01	R2E 210-AA34 -05	39,5	30
R2E 210-AB34 -**	R2E 210-AB34 -01	R2E 210-AB34 -05	54,5	45



EC radial fan (exhaust air)

single inlet, Ø 150



- **Material:** Impeller made of corrosion-resistant stainless steel
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Type of protection:** IP 20
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Neurdaten

Type	Motor	Curve	Nominal voltage	Spannungsbereich	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Perm. amb. temp. ¹⁾	Mass	Electr. connection
			VDC	VDC	m³/h	rpm	W	A	dB(A)	°C	kg	p. 40
R1G 150-AN93 -**	M1G055-BD	A	12	8-14	260	2615	22	2,02	63	-25...+60	1,3	G)
		B	12	8-14	160	2735	19	1,77	64	-25...+60	1,3	G)

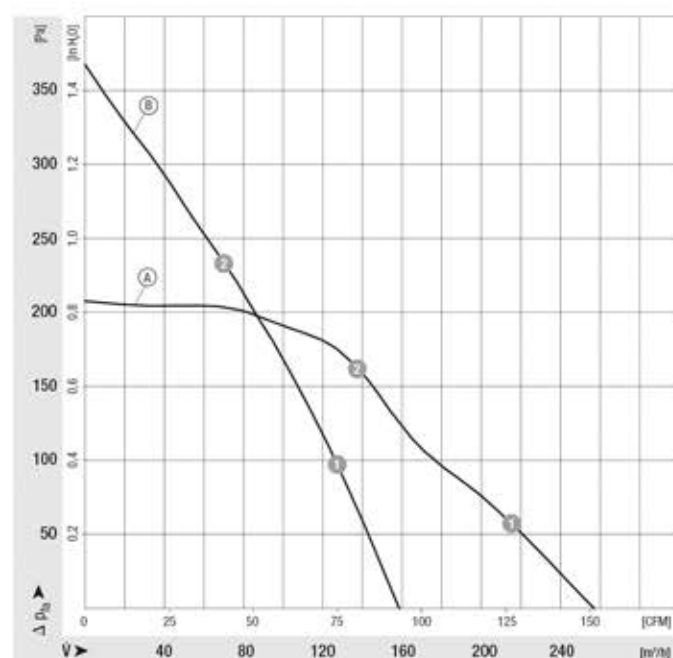
subject to alterations

A measured without scroll housing

B measured in ebm-papst scroll housing

¹⁾ ambient temp. necessitates technical adaption.

Curves



Air performance measured as per: ISO 5801, Installation category A, without scroll housing respectively in ebm-papst scroll housing without protection against accidental contact

Suction-side noise levels: Lw_s as per ISO 13447, Lp_s measured at 1 m distance to fan axis

The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted!

For detailed information see page 42 ff.

	n	P ₁	I
	[rpm]	[W]	[A]
A 1	2600	22	2,00
A 2	2670	20	1,90
B 1	2760	18	1,70
B 2	2860	16	1,60

- **Technical features:** Control input 0-10 VDC / PWM, Tach output
- **Cable exit:** Variable

Selection  			
Type	without motor protection hood	with motor protection hood	
R1G 150-AN93 -**	R1G 150-AN93 -02	R1G 150-AN93 -08	

