

KARTA KATALOGOWA

G2E120-AR77-41

Wentylator promieniowy AC, łopatki zakrzywione do przodu, jednostronnie ssący, z obudową (z kołnierzem)

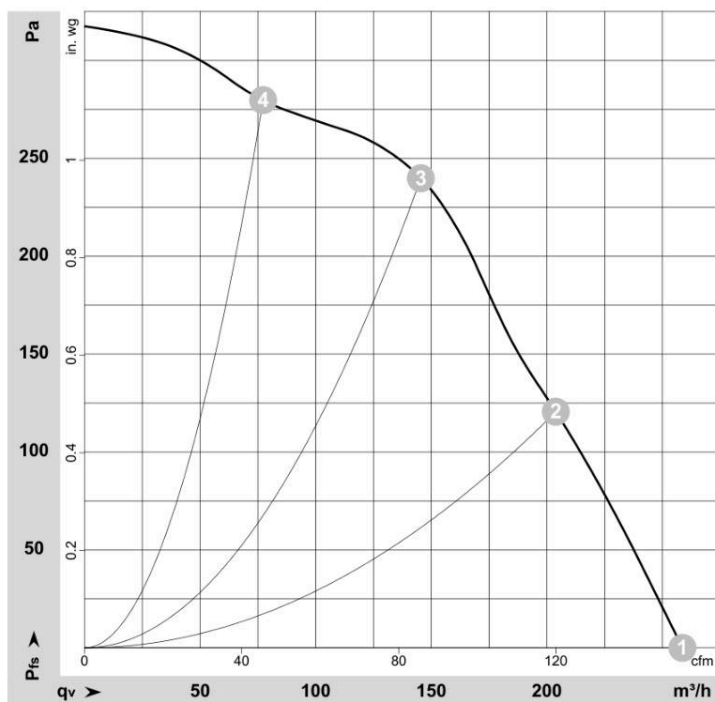
Producent: ebm-papst



Dane znamionowe		Budowa	
Napięcie znamionowe	1~ 230 V	Wielkość	120 mm
Częstotliwość	50 / 60 Hz	Silnik	M2E068-BF
Prędkość obrotowa	2350 / 2450 obr/min	Materiał wirnika	blacha stalowa malowana na czarno
Pobór mocy	80 / 100 W	Obudowa	odlew aluminiowy
Pobór prądu	0,35 / 0,44 A	Kierunek obrotów	w prawo, patrząc na wirnik
Prąd rozruchowy	0,47 A	Stopień ochrony	IP44
Kondensator	2 µF / 450 V	Klasa izolacji	B
Maks. wydajność	260 m³/h	Zabezpieczenie silnika	termik (TOP), podłączony wewnętrznie
Maks. ciśnienie statyczne	295 Pa	Łożyskowanie	kulkowe
Temperatura otoczenia	min. -25 °C; maks. 45 / 55 °C	Masa	2,1 kg

Charakterystyka przepływowa (50 Hz)

Curves: Air performance 50 Hz



$$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$$

Measurement: LU-104578-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Dane na okładce wg karty katalogowej producenta ebm-papst (oryginał na kolejnych stronach).
Wartości przy swobodnym wydmuchu; producent zastrzega możliwość zmian.

Dobór, wycena i dostawa – zapytaj LUFTBERG

tel. +48 600 100 371 · tel. +48 604 959 199
biuro@luftberg.pl · www.luftberg.pl

G2E120-AR77-41

AC centrifugal fan
forward-curved, single-intake
with housing (flange)



ebm-papst Mulfingen GmbH & Co. KG
Bachmühle 2 · D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Nominal data

Type	G2E120-AR77-41		
Motor	M2E068-BF		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	2350	2450
Power consumption	W	80	100
Current draw	A	0.35	0.44
Capacitor	µF	2	2
Capacitor voltage	VDB	450	450
Capacitor standard		S0 (CE)	S0 (CE)
Min. back pressure	Pa	0	0
Min. back pressure	in. wg	0	0
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	45	55
Starting current	A	0.47	0.47

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



G2E120-AR77-41

AC centrifugal fan

forward-curved, single-intake
with housing (flange)

Technical description

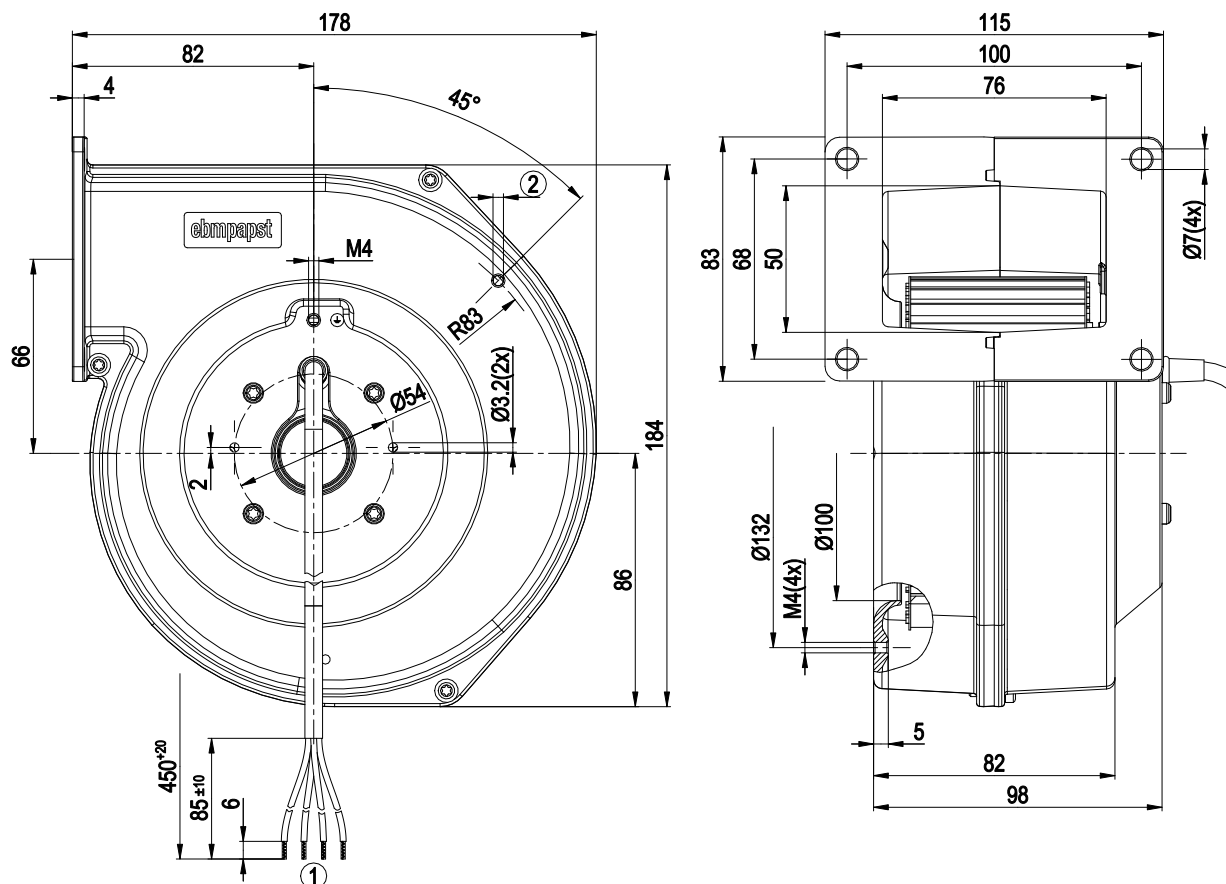
Weight	2.1 kg
Fan size	120 mm
Rotor surface	Painted black
Impeller material	Sheet steel, painted black
Housing material	Die-cast aluminum
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal or rotor on top; rotor on bottom on request
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) internally connected
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	CCC; EAC

G2E120-AR77-41

AC centrifugal fan

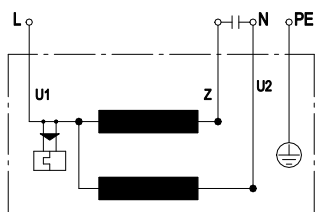
forward-curved, single-intake
with housing (flange)

Product drawing



- | | |
|---|---|
| 1 | Cable PVC 4G 0.5 mm ² , 4x crimped splices |
| 2 | Tapping hole ready for self-tapping M4 screw |

Connection diagram



U1	blue	Z	brown	U2	black
PE	green/yellow				

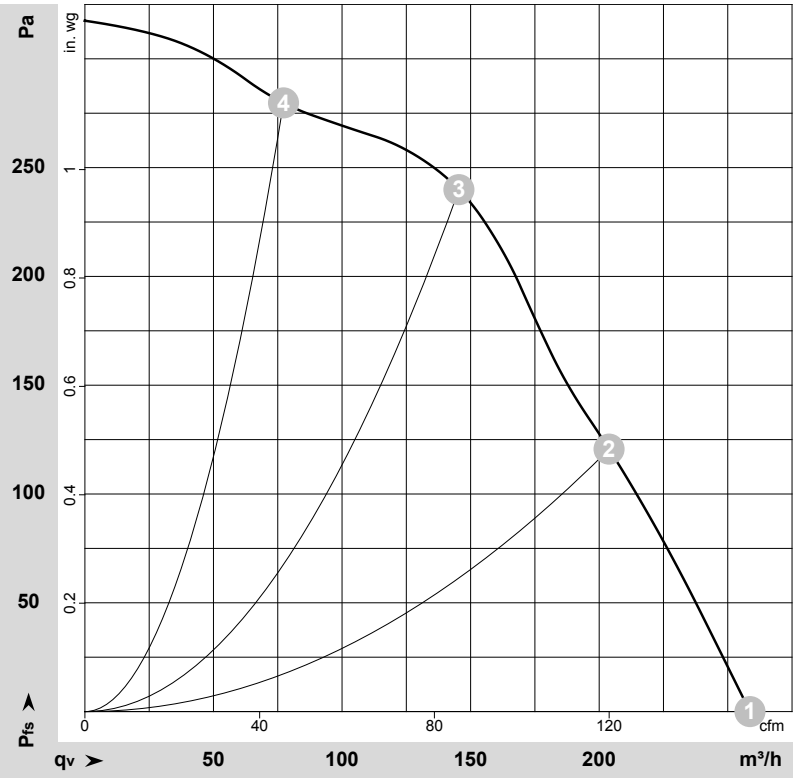
G2E120-AR77-41

AC centrifugal fan

forward-curved, single-intake

with housing (flange)

Curves: Air performance 50 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-104578-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	f	n	P _e	I	q _v	P _{fs}	q _v	P _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	230	50	2350	80	0.35	260	0	150	0.00
2	230	50	2515	73	0.33	205	120	120	0.48
3	230	50	2655	68	0.31	145	240	85	0.96
4	230	50	2760	65	0.31	75	280	45	1.12

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase



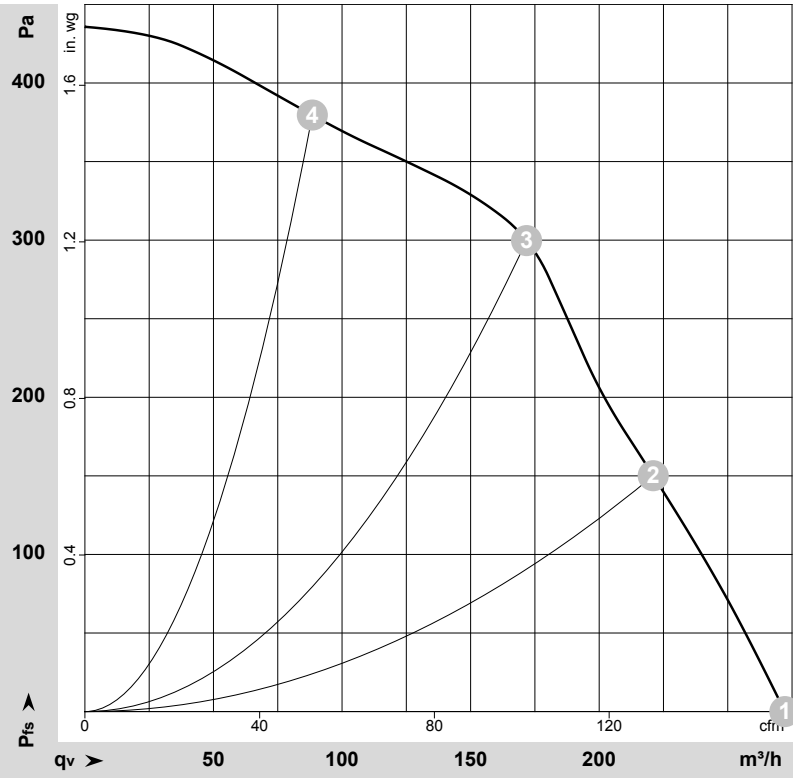
G2E120-AR77-41

AC centrifugal fan

forward-curved, single-intake

with housing (flange)

Curves: Air performance 60 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-104581-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	f	n	P _e	I	q _v	P _{fs}	q _v	P _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	230	60	2450	100	0.44	270	0	160	0.00
2	230	60	2780	91	0.40	220	150	130	0.60
3	230	60	2960	85	0.37	170	300	100	1.20
4	230	60	3195	76	0.33	90	380	50	1.53

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

