

KARTA KATALOGOWA

R4E400-RO09-06

Wentylator promieniowy AC RadiCal, łopatki zakrzywione do tyłu, jednostronnie ssący

Producent: ebm-papst



Zdjęcie poglądowe

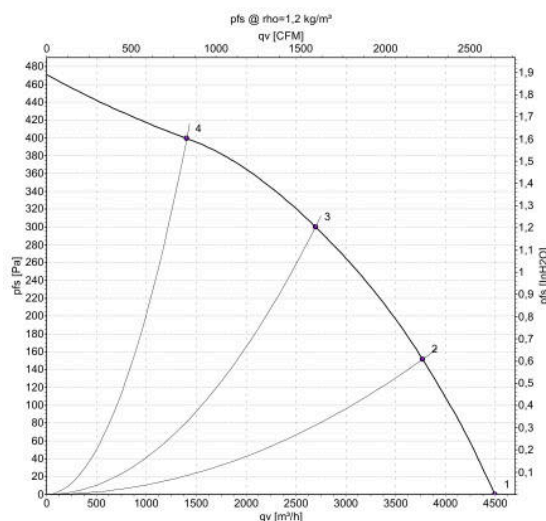
Dane znamionowe	
Napięcie znamionowe	1~ 230 V
Częstotliwość	50/60 Hz
Prędkość obrotowa	1340 / 1430 obr/min
Pobór mocy	470 / 650 W
Pobór prądu	2,33 / 3 A
Kondensator	9 µF / 400 V
Maks. wydajność	4495 m³/h
Maks. ciśnienie statyczne	400 Pa
Temperatura otoczenia	-40...+65 °C (60 Hz: +50 °C)

Dane ErP (UE 327/2011)	
Sprawność całkowita	48,6 %
Przepływ w pkt. optymalnym	2810 m³/h
Przyrost ciśnienia	306 Pa
Regulacja obrotów	nie

Budowa	
Średnica wirnika	400 mm
Materiał wirnika	tworzywo PP
Liczba łopatek	6
Stopień ochrony	IP54
Klasa izolacji	F
Zabezpieczenie silnika	termik (TOP)
Masa	9 kg

Charakterystyka przepływowa

Curves: Air performance 50 Hz



Measurement: LU-152577-1

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 podstawie karty producenta ebm-papst (oryginał na kolejnych stronach).
Wartości dla 50 Hz / 60 Hz; producent zastrzega możliwość zmian.

Dobór, wycena i dostawa – zapytaj LUFTBERG

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R4E400-RO09-06

AC centrifugal fan - RadiCal

backward-curved, single-intake

Nominal data

Type	R4E400-RO09-06		
Motor	M4E094-HA		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		ml	ml
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	1340	1430
Power consumption	W	470	650
Current draw	A	2.33	3.0
Capacitor	µF	9	9
Capacitor voltage	VDB	400	400
Capacitor standard		S0 (CE)	S0 (CE)
Min. back pressure	Pa	0	0
Min. back pressure	inH2O	0	0
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	65	50
Starting current	A	5.9	

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

Data according to ErP Directive

		Actual	Req. 2015
01 Overall efficiency η_{es}	%	48.6	48.2
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		62.4	62
05 Variable speed drive		No	

Data obtained at optimum efficiency level.
The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

09 Power consumption P_e	kW	0.48
09 Air flow q_v	m³/h	2810
09 Pressure increase p_{fs}	Pa	306
10 Speed (rpm) n	min ⁻¹	1390
11 Specific ratio*		1.00

* Specific ratio = $1 + p_b / 100\,000\text{ Pa}$ LU-141329



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Technical description

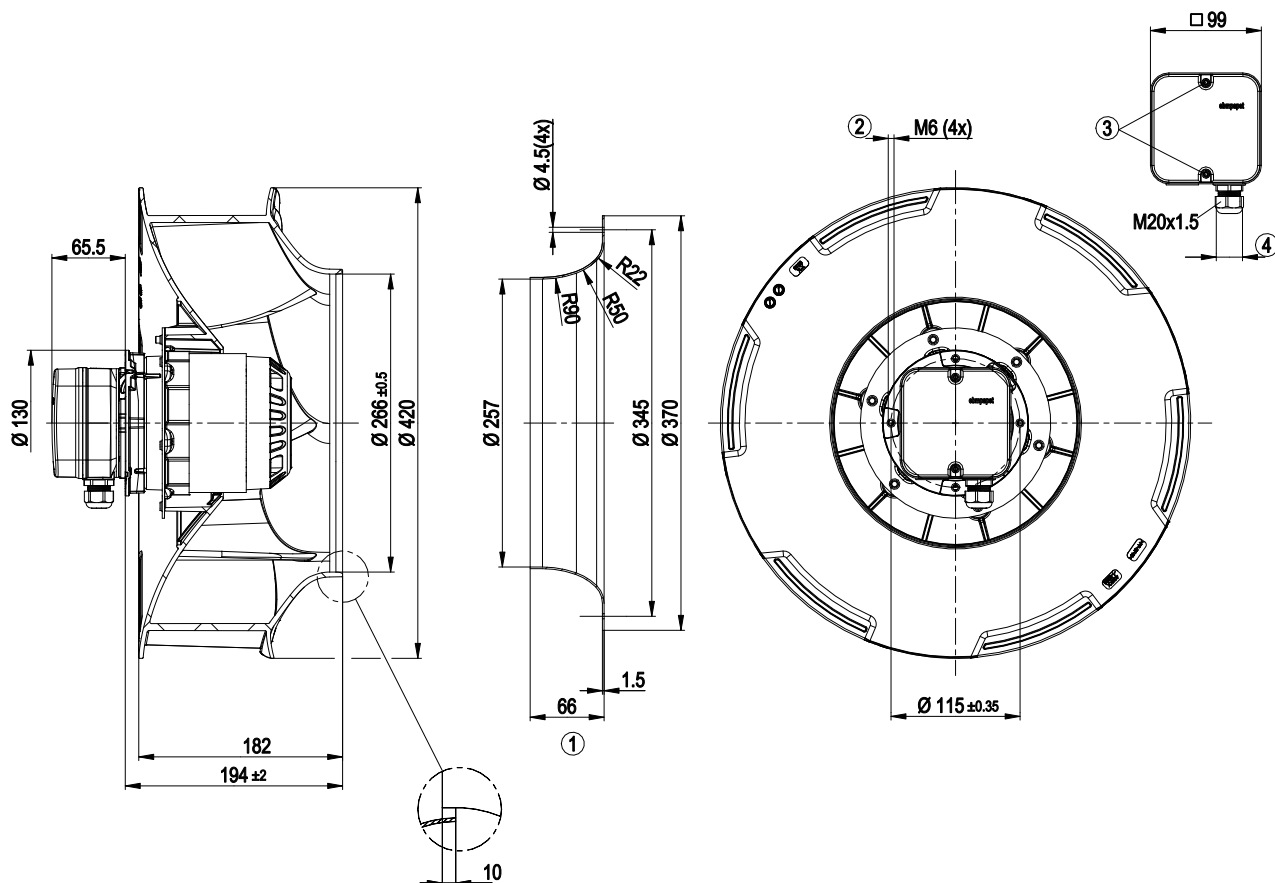
Weight	9 kg
Fan size	400 mm
Rotor surface	Painted black
Impeller material	PP plastic
Number of blades	6
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F4-1
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Via terminal box, capacitor integrated and connected
Motor protection	Thermal overload protector (TOP) with basic insulation
Protection class	I (with customer connection of protective earth)
Motor capacitor according to EN 60252-1 in safety protection class	S0
Conformity with standards	EN 60034-1 (2010); CE

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Product drawing



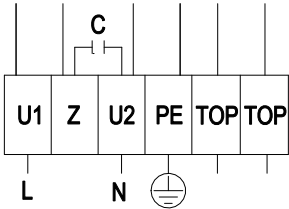
1	Accessory part: Inlet ring 54476-2-4013, not included in scope of delivery
2	Max. clearance for screw 12 mm
3	Tightening torque 0.8±0.15 Nm
4	Cable diameter: min. 6 mm, max. 12 mm; tightening torque 2 Nm±0.3 Nm

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Connection diagram



L	= U1 = blue	Z	brown	N	= U2 = black
PE	green/yellow	TOP	gray		

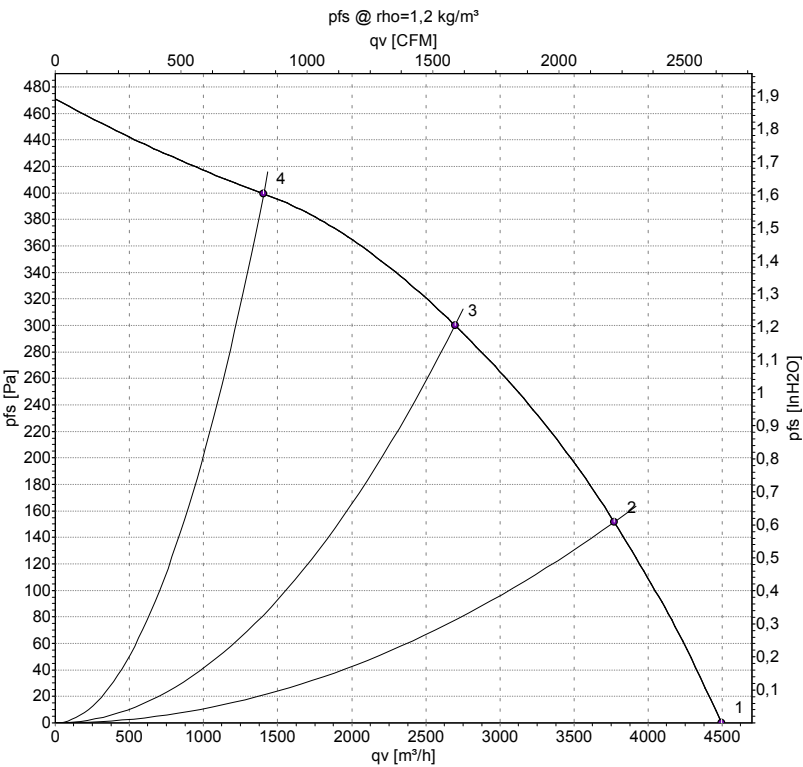


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AC centrifugal fan - RadiCal

backward-curved, single-intake

Curves: Air performance 50 Hz



Measurement: LU-152577-1

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	LpA _{in}	LwA _{in}	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa	cfm	inH2O
1	230	50	1395	368	1.95	70	78	4495	0	2645	0.00
2	230	50	1360	436	2.21	66	74	3770	150	2220	0.60
3	230	50	1340	470	2.33	59	67	2695	300	1585	1.20
4	230	50	1375	402	2.06	60	68	1405	400	830	1.61

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
q_v = Air flow · p_{fs} = Pressure increase

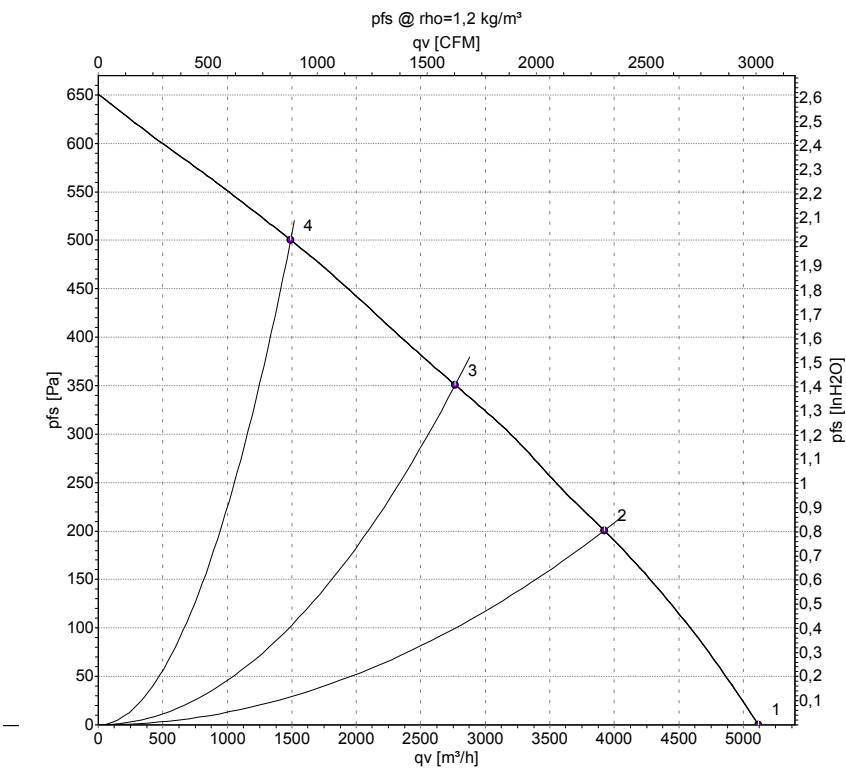


R4E400-RO09-06

AC centrifugal fan - RadiCal

backward-curved, single-intake

Curves: Air performance 60 Hz



Measurement: LU-152583-1

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	LpA _{in}	LwA _{in}	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa	cfm	inH2O
1	230	60	1585	527	2.35	72	80	5120	0	3010	0.00
2	230	60	1455	634	2.94	65	72	3920	200	2310	0.80
3	230	60	1430	650	3.00	59	67	2765	350	1630	1.41
4	230	60	1540	564	2.55	65	73	1490	500	880	2.01

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
q_v = Air flow · p_{fs} = Pressure increase

