

Product Change Notice

Date:	March 18, 2020
Overview:	Obsolescence of PN R4E310-AO32-11
Reason for Change:	Part number consolidation
Affected Part No(s):	R4E310-AO32-11
Design Change Detail:	<p>PN R4E310-AO32-11 is being discontinued and replaced by PN R4E310-AO32-17.</p> <p>The only difference is the lead length: The -11 has a 450mm lead length and the -17 has 915mm lead length.</p>
Effective Date:	All customers currently with open orders for the -11 will receive the -11. Extra inventory at ebm-papst Farmington of the -11 is subject to prior sale. A last time buy for the -11 is possible until 3/31/20; starting 4/1/20 please order the -17.
Last Time Buy Deadline:	March 31, 2020
Pricing:	No change
ebm-papst employee:	Jeannine Zenobi
Attachments:	Datasheets for PNs R4E310-AO32-11 and R4E310-AO32-17
Comments:	The extra lead length on replacement PN R4E310-AO32-17 can be cut to size as needed

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Rev. – Orig, Released 08/28/14	Retention Period – 1 year	Dept. Owner – Sales/Marketing

R4E310 Series

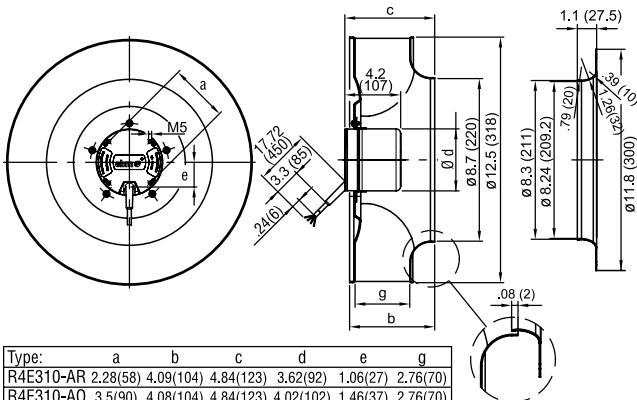
Motorized Impeller



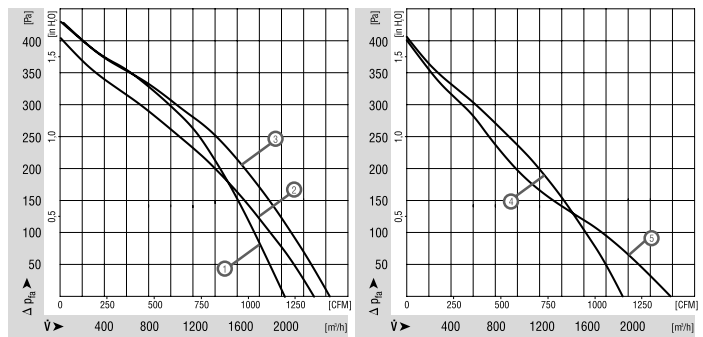
Ø 310mm Backward Curved 3D Impeller

- These new backward curved centrifugal fans feature twofold-curved blades. These impellers have improved efficiency and reduced noise.
- Impeller completely made of aluminium.
- Maintenance-free ball bearings.
- Cable exit: variable.
Direction of rotation is CW as seen from intake side.
- UL, CSA, VDE approvals on most models, please contact application engineering.
- Recommended inlet ring: 31051-2-4013.

Part Number	Curve	CFM @ D	VAC	Hertz	Power (W)	dBA	Max Amb. Temp. C	Capacitor (µF)	Speed (RPM)	Wgt. (lbs)
R4E310-AO32-11	1	1177	115	60	185	66	60	16	1720	7.9
R4E310-AP15-11	2	1330	115	60	180	63	50	16	1550	8.4
R4E310-AQ29-11	3	1430	115	60	225	65	60	20	1700	9.7
R4E310-AR06-01	4	1148	230	60	125	66	65	4	1650	7.3
R4E310-AO34-12	1	1177	230	60	170	66	60	3	1720	7.9
R4E310-AP11-12	2	1330	230	60	175	63	50	4	1580	8.4
R4E310-AS06-01	5	1401	230	60	160	62	50	4	1530	7.5
R4E310-AQ31-12	3	1430	230	60	240	65	50	5	1700	9.7
R4E310-AO12-10	1	1177	277	60	165	66	60	4	1720	7.9
R4E310-AP21-10	2	1330	277	60	170	63	55	3	1560	8.4
R4E310-AQ19-10	3	1430	277	60	210	65	60	4	1670	9.7



Type:	a	b	c	d	e	g
R4E310-AR	2.28(58)	4.09(104)	4.84(123)	3.62(92)	1.06(27)	2.76(70)
R4E310-AO	3.5(90)	4.08(104)	4.84(123)	4.02(102)	1.46(37)	2.76(70)
R4E310-AP	3.5(90)	5.47(139)	6.06(154)	4.02(102)	1.46(37)	3.98(101)
R4E310-AS	2.28(58)	5.47(139)	6.06(154)	3.62(92)	1.06(27)	3.98(101)
R4E310-AQ	3.5(90)	5.47(139)	6.06(154)	4.02(102)	1.46(37)	3.98(101)



AC centrifugal fan

backward-curved, single-intake

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

Limited partnership · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	R4E310-AO32-17		
Motor	M4E074-DF		
Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	60	60
Method of obtaining data		fa	fa
Valid for approval/standard		CE	UL 1004-3
Speed (rpm)	min ⁻¹	1720	1720
Power consumption	W	155	185
Current draw	A	1.5	1.8
Capacitor	µF	16	16
Capacitor voltage	VDB	220	220
Capacitor standard		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	65	65

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



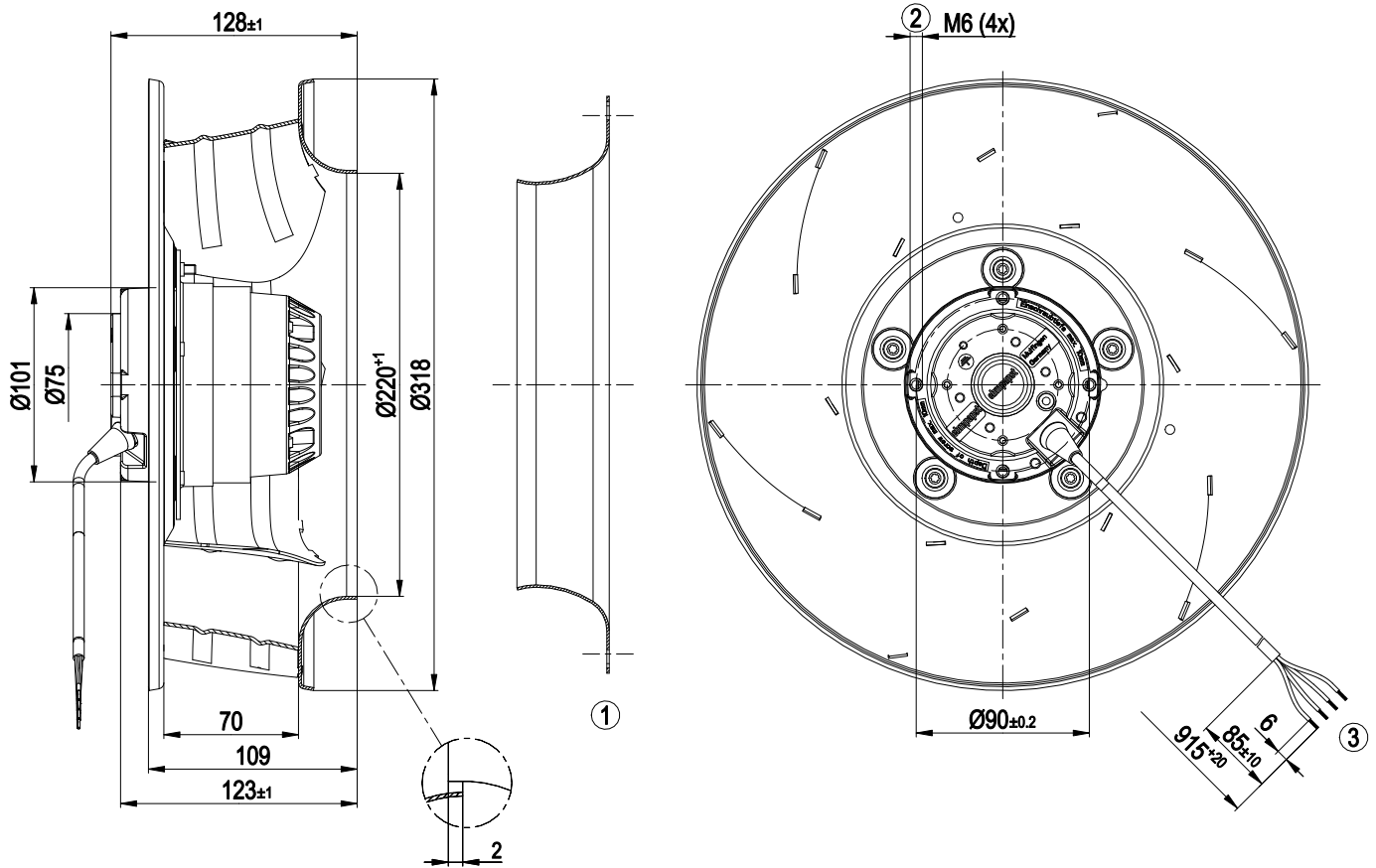
Technical description

Weight	3.8 kg
Size	310 mm
Motor size	74
Rotor surface	Painted black
Impeller material	Sheet aluminum
Number of blades	6
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"F"
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 bottom; rotor on top 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
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	UL 1004-3; CSA C22.2 No. 77

AC centrifugal fan

backward-curved, single-intake

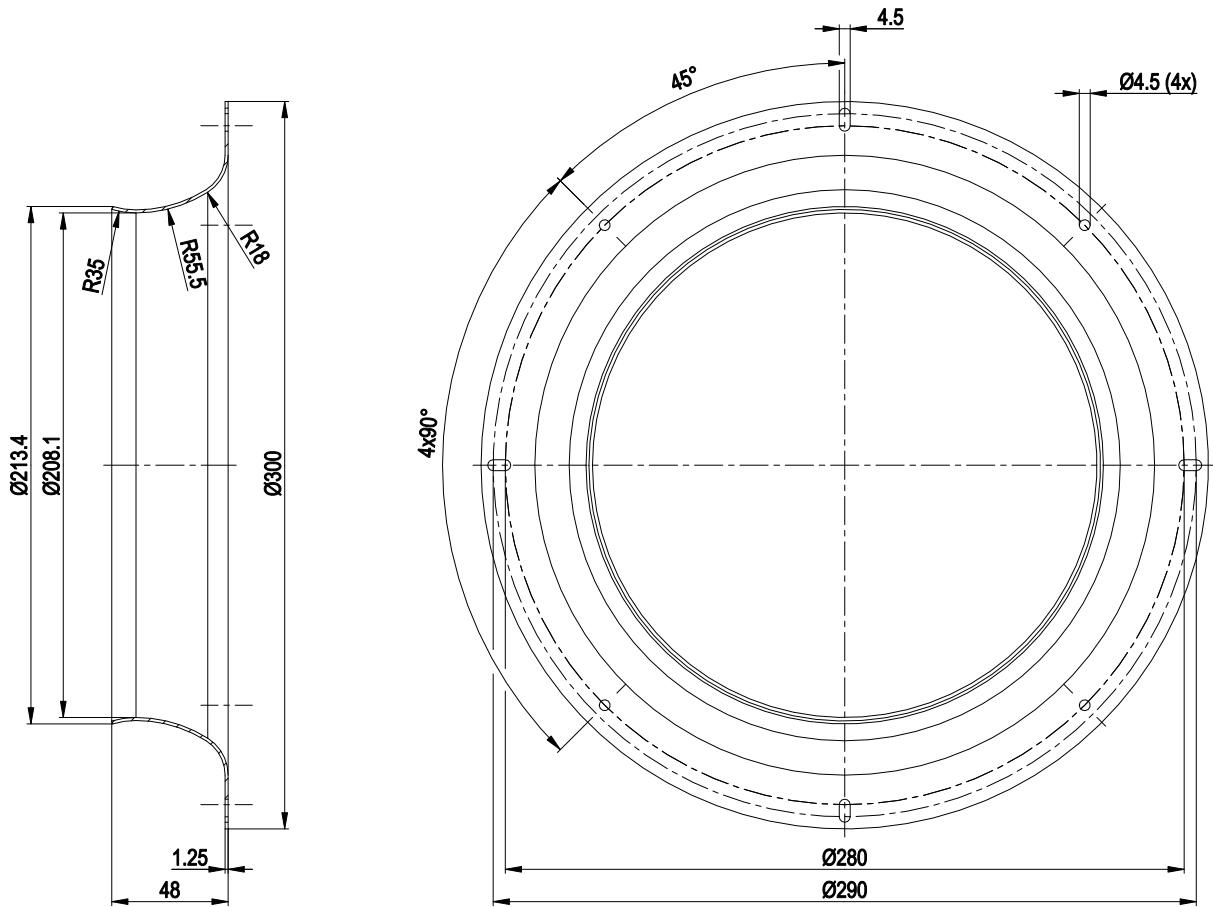
Product drawing



1	Accessory part: inlet ring 31050-2-4013 not included in scope of delivery
2	Max. clearance for screw 10 mm
3	Cable PFA AWG20
	4x splice

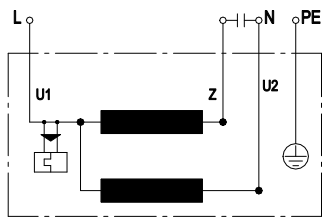


Accessory part



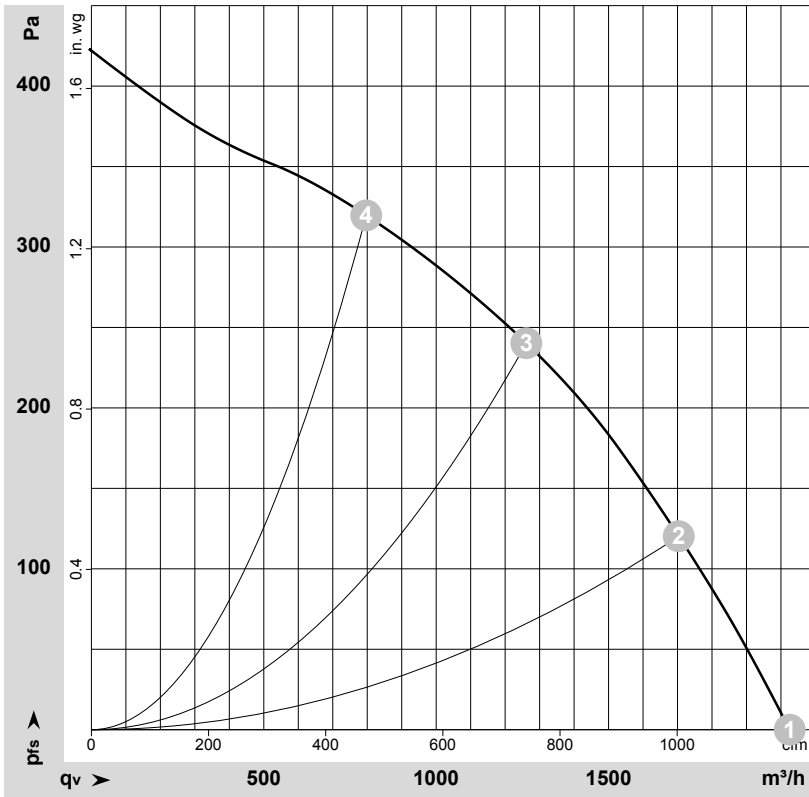
inlet ring 31050-2-4013 not included in scope of delivery

Connection diagram



U1	blue	Z	brown	U2	black
PE	green/yellow				

Curves: Air performance 60 Hz



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

Measurement: LU-58085-1

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	m ³ /h	Pa	cfm	in. wg
1	115	60	1720	155	1.50	2025	0	1190	0.00
2	115	60	1695	183	1.70	1705	120	1005	0.48
3	115	60	1675	199	1.82	1260	240	745	0.96
4	115	60	1685	191	1.75	795	320	470	1.28

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

