

Customers from all branches of industry – cooling and refrigeration technology, household appliance and heating engineering to name but a few – place their trust in the new iQ-motor, a simple yet ingenious drive and fan solution made by ebm-papst! Quadratic, practical and considerably more intelligent and efficient than conventional shaded-pole motors, the iQ-motor has raised the bar among “standard” motors. If you require more information, please do not hesitate to contact us. We will be happy to help.

**ebm-papst Landshut GmbH**

Hofmark-Aich-Straße 25

D-84030 Landshut

Phone +49 871 707-0

Fax +49 871 707-465

info3@de.ebmpapst.com

[www.ebmpapst.com](http://www.ebmpapst.com)

From Q-motor to iQ-motor.



Quadratic. Practical. **Intelligent.**

The engineer's choice

**ebmpapst**

# Same on the outside – better on the inside!

*Typical of ebm-papst: we have taken a standard motor and a principle that for decades has enjoyed success in countless applications and made it more intelligent, energy-efficient and environmentally friendly! Features of the shaded-pole motor (Q-motor) such as outstanding running smoothness, low maintenance and a long service life have made asynchronous motors a standard component in small fans. Our objective was to significantly improve the inner mechanism of the Q-motor by incorporating EC technology – while keeping the exterior design identical. Conventional Q-motors can now be replaced with the new “iQ”-motors if the fans fail or if a more energy-efficient solution is required.*

## Exchange your old motor for 70% more efficiency

During the development of the iQ-motor, our engineers took giant strides towards reducing energy costs and fulfilling environmental protection requirements. By integrating ebm-papst EC technology, new iQ-motor now features far better efficiency and pays for itself quickly due to its significant energy-savings. The best part of all: from the outside, it is the same old fan. The identical dimensions and mounting options enable simple replacement without changes, structural modifications or any other extra effort. Axial impellers with diameters of 154 to 254 mm can be installed on the new iQ-motor just as before. The same applies to the mounting flange, the wall ring and the guard grille. Therefore, thousands of applications can easily be made more energy-efficient as part of routine maintenance, and may benefit at once from a drastic increase in efficiency, without any development effort.

## The best equipment – not just in an emergency

Of course, the enormous increase in energy efficiency is not the only feature we have packed into the intelligent motor. Important electronic features ensure that the iQ-motor works even more “conscientiously” than its simple counterpart. For example, the motor has a closed loop speed control that keeps it at the same speed at all times, regardless of the diameter of the installed blade. With dirt or other interference factors, they do not cause an overload of the motor. The iQ-motor continues working at reduced speed.

## One design – thousands of applications

Just one design is compatible with the entire range of impellers, from 154 to 254 mm. This makes logistics easier and keeps your development effort low. Moreover, the smallest size, the iQ 3608, is the most compact version of an EC motor for its field of application in refrigeration. It has an axial installation depth of only 74 mm, thus guaranteeing the necessary little bit of air in very tight installation spaces.

## Energy-saving and quiet – throughout its long service

All variants share the low-noise performance and the famous long service life that have made this motor type so popular for so long. A critical role is played by a particularly low-friction bearing system with double ball bearings. Thus the iQ-motor can continue to yield its enormous savings potential for a very, very long time after only a brief amortisation phase. Available options include the IP54 type of protection and, of course, a standards-compliant TÜV approval.

### All advantages at a glance

- High efficiency of up to 65%
- Constant speed, even in the event of voltage fluctuations
- High running smoothness due to low-friction bearing system
- Intelligent electronics with n-control, overload and locked-rotor protection
- Conventional AC technology can be replaced easily
- Identical accessories and dimensions to Q-motor
- Long service life due to maintenance-free ball bearings
- One solution replaces multiple sizes of comparable AC motors

**Making our mark:**  
“The ultimate EC technology”



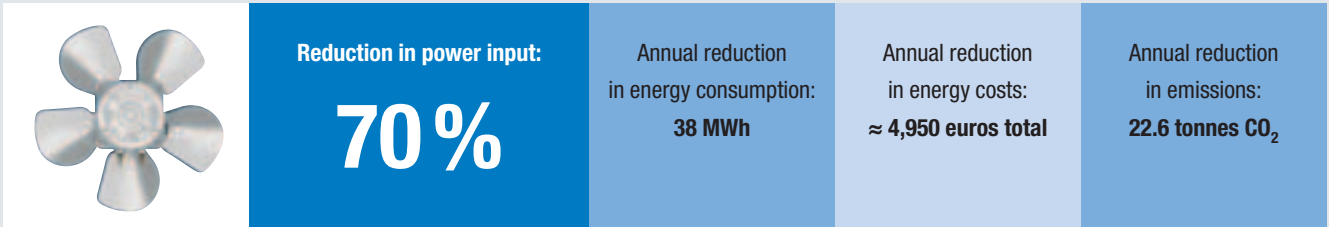


### General overview of iQ-motor data

<b>Material:</b>	Die-cast aluminium housing	<b>Electrical connection:</b>	Mains cable
<b>Direction of air flow:</b>	Sucking or blowing (depending on axial impeller used)	<b>Protection class:</b>	I
<b>Direction of rotation:</b>	Counterclockwise, seen on shaft end	<b>Approvals:</b>	TÜV UL ( in progress)
<b>System of protection:</b>	IP42 (only with horizontal shaft) optional IP54 (any shaft position)	<b>Mounting attachment parts:</b>	Guard grille and wall ring are attached to the projecting thread ends on the A side
<b>Insulation class:</b>	“H”	<b>Axial impeller attachment:</b>	A plastic adapter with catching peg and M4 screw is used to secure the impeller on the motor shaft
<b>Mounting position:</b>	Any		
<b>Mode of operation:</b>	Continuous operation (S1)		
<b>Bearings:</b>	Maintenance-free ball bearings		
<b>Motor protection:</b>	Via electronics		

## A quick example calculation:

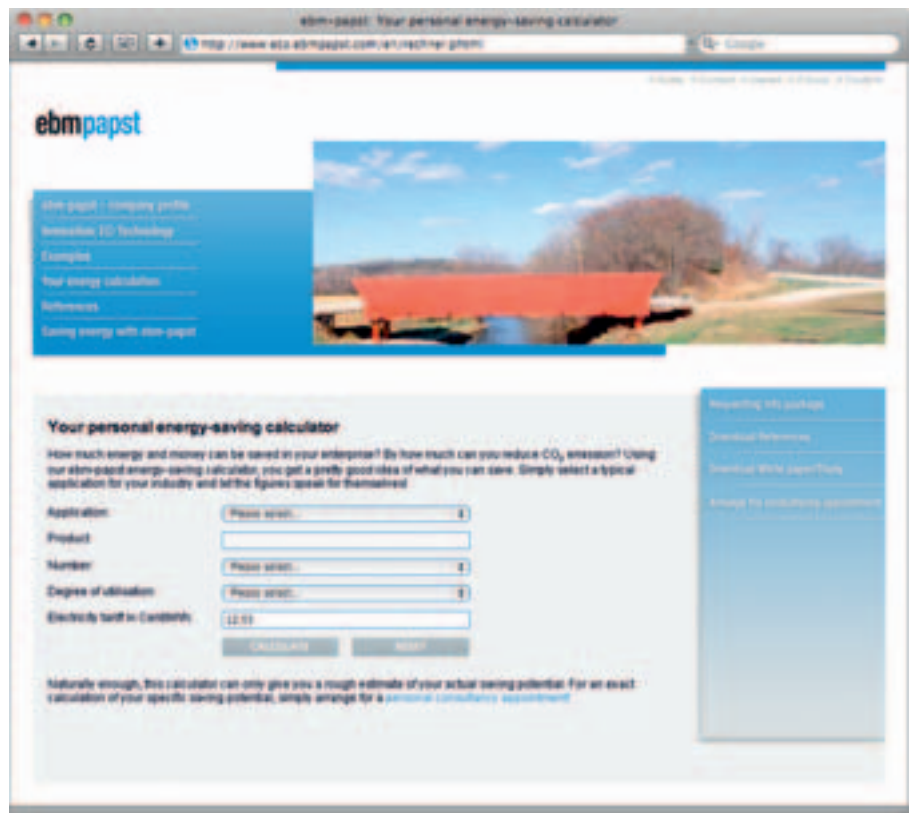
A typical supermarket operates 200 AC fans with 200 mm blades (blade angle 28°) in its refrigeration units. If the shaded-pole motors were to be replaced by iQ motors, the energy consumption would be reduced by 38 megawatt hours. That is an annual saving of more than 4,950 euros\* and a good 22.6 tonnes of CO<sub>2</sub>.



\*Assumptions: electricity price 0.13 euros per kWh, continuous operation 24 hours a day, 365 days a year

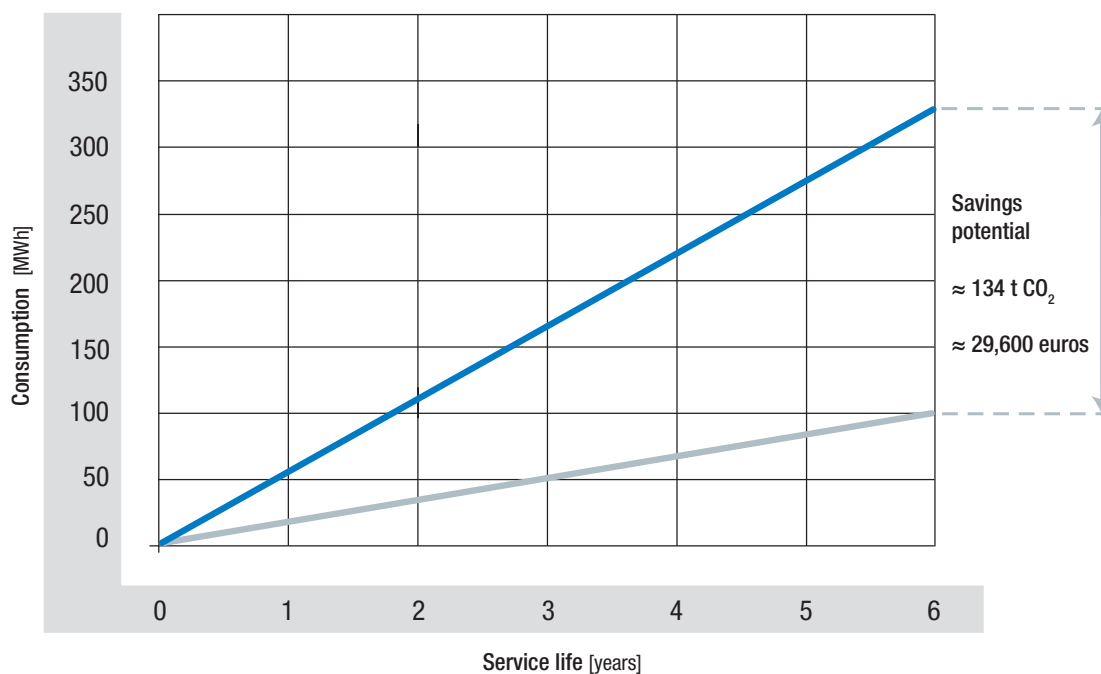
## iQ-motor in energy-saving calculator

How much energy and cost could the iQ-motor save in your company? And how much CO<sub>2</sub> emission could be prevented? The ebm-papst energy-saving calculator on [www.eco.ebmpapst.com](http://www.eco.ebmpapst.com) will give you a good idea how much. Go for your energy cost calculation there and the numbers will speak for themselves!



### The iQ savings potential in the long term

If you look at the figures for the iQ-motor over a prolonged period, its considerable energy-savings potential becomes especially obvious.



Electricity price: 0.13 euro per kWh

Number of motors: 200

Continuous operation (24 h/365 d)

Axial blades: 200 mm/28° blade angle

CO<sub>2</sub> emissions factor: 0.596 kg per kWh (Federal Environment Agency, Dessau, May 2008)

— iQ 3612  
— AC-shaded-pole motor (comparable)

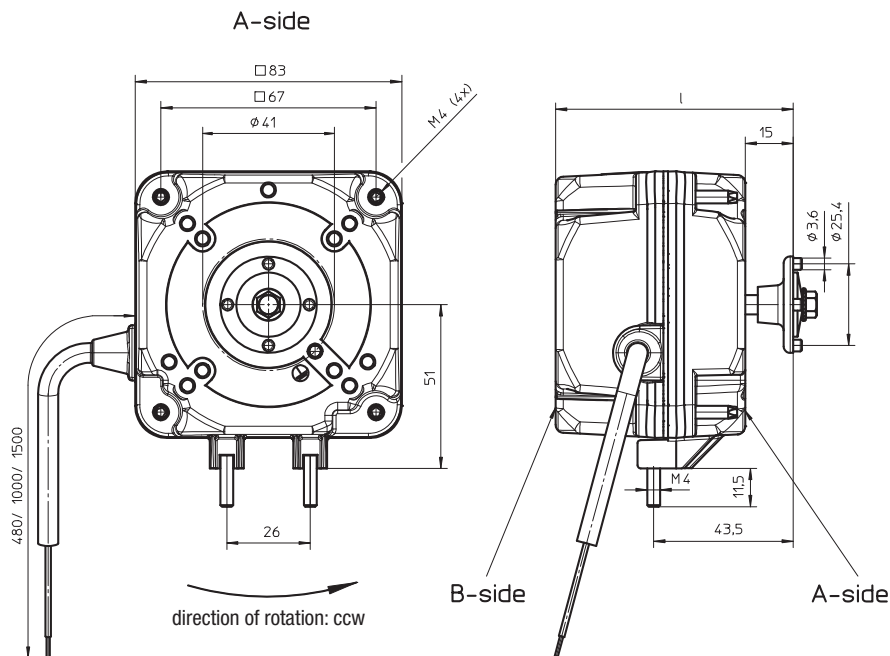


# Technical data

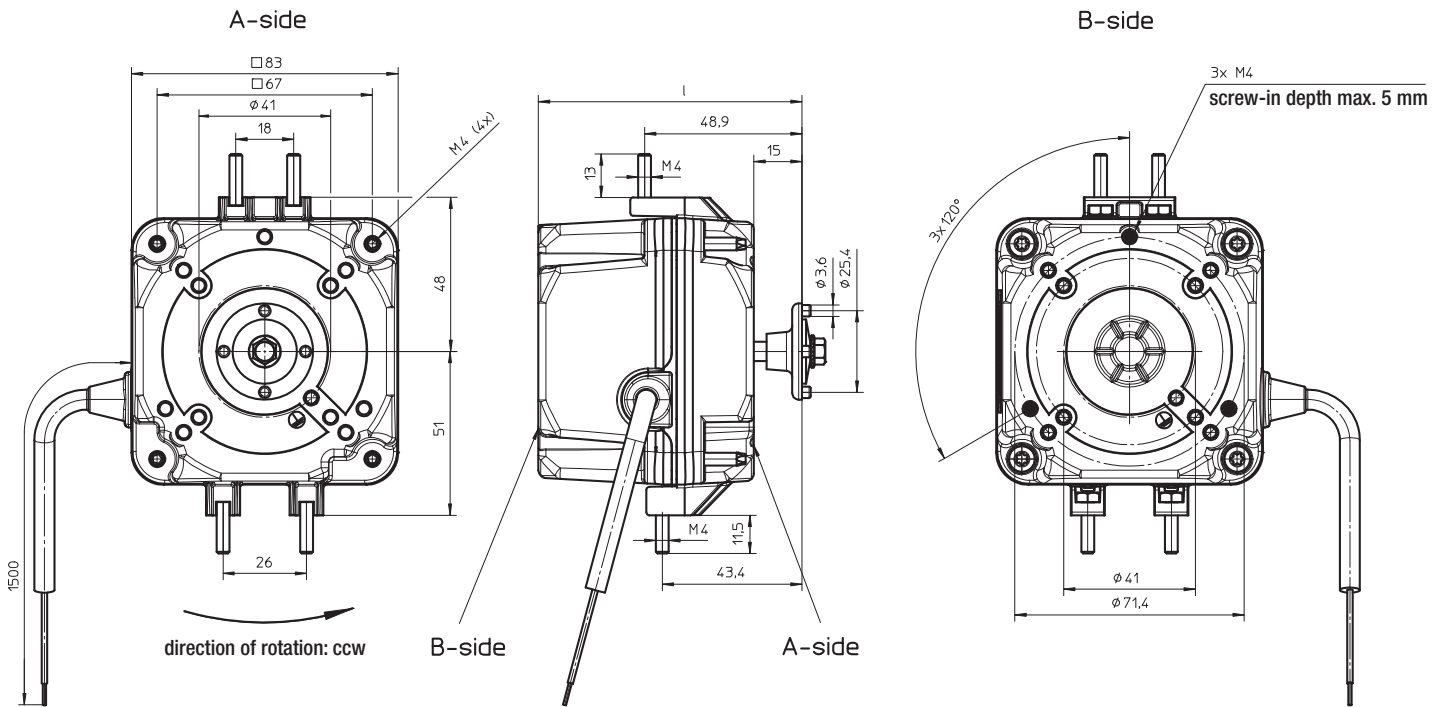
Technical data	Voltage	Frequency	Speed	Output capacity	Temperature	Weight	Dimension l (see drawing)
Motor	V	Hz	rpm	W	°C	kg	mm
iQ 3608	220-240	50/60	1,300	3	-40 to +50	0.5	74
	115*	50/60	1,550	3	-40 to +50	0.5	74
iQ 3612	220-240	50/60	1,300	10	-40 to +50	0.6	82
	115*	50/60	1,550	10	-40 to +50	0.6	82

\*as of second quarter 2009

## Standard version



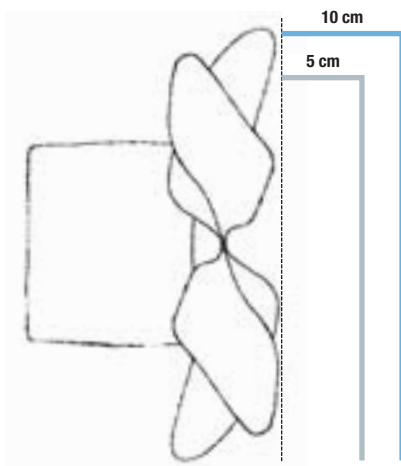
**Multifunction version**



# Technical data

## 220–240 V model

Motor	Blade diameter	Blade angle	Curves	max. power input	Power input running at free air	Air flow running at free air at n=1,300 rpm	
iQ 3608	mm	°		W	W	m <sup>3</sup> /h	
	154	22	A	2.8	2.5	150	
	154	28		3.2	3	190	
	154	34		3.7	3.5	210	
	172	22	B	5.3	3	240	
	172	28		6.7	4.1	270	
	172	34		7.5	5.5	300	
	200	22	C	7.5	5	350	*
	200	28		7.5	6	400	**
iQ 3612	mm	°		W	W	m <sup>3</sup> /h	
	200	22	D	9.5	4.4	350	
	200	28		11	5.3	400	
	200	34		15	7.8	460	
	230	22	E	23	9.5	520	
	230	28		21.5	15.5	720	
	230	34		23	19.5	750	
	254	22	F	23	15	700	
	254	28		23	23	870	***



Depending on the installation situation and the axial impeller used, the nominal speed of 1,300 rpm may not be reached. Due to the intelligent electronics, reliable (continuous) operation is ensured, even in this case.

The test setup with deflector simulates an extreme arrangement (between fan and condenser or heat exchanger).

The speed of 1,300 is no longer reached ...

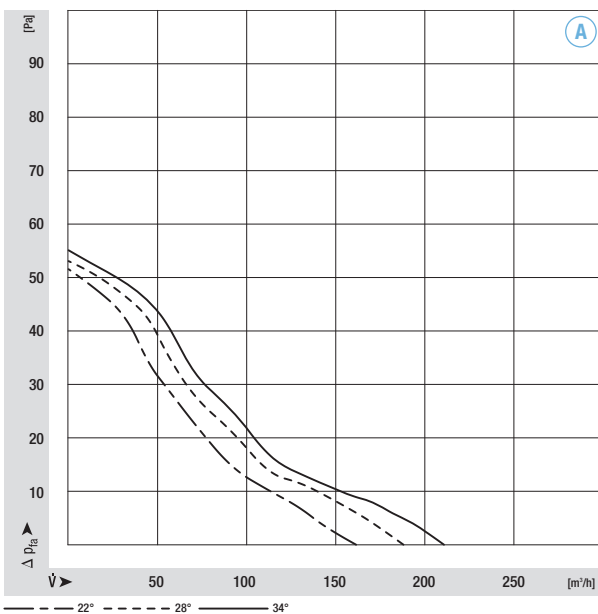
\* running at free air

\*\* at a distance of 10 cm from the wall

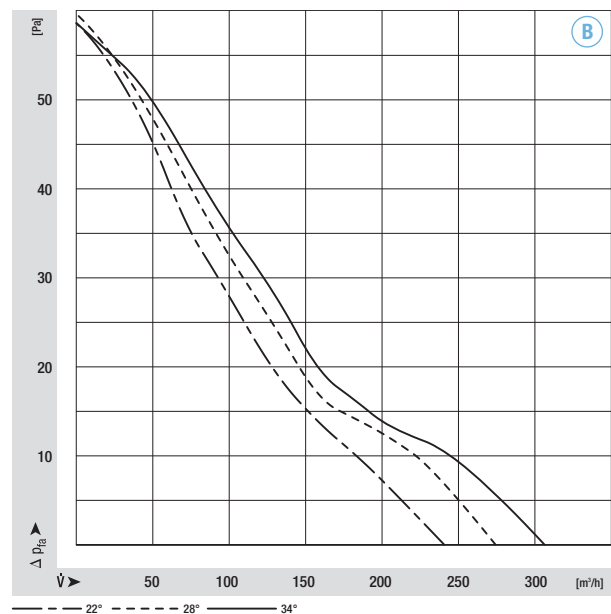
\*\*\* at a distance of 5 cm from the wall

# Air performance curves measured in wall ring

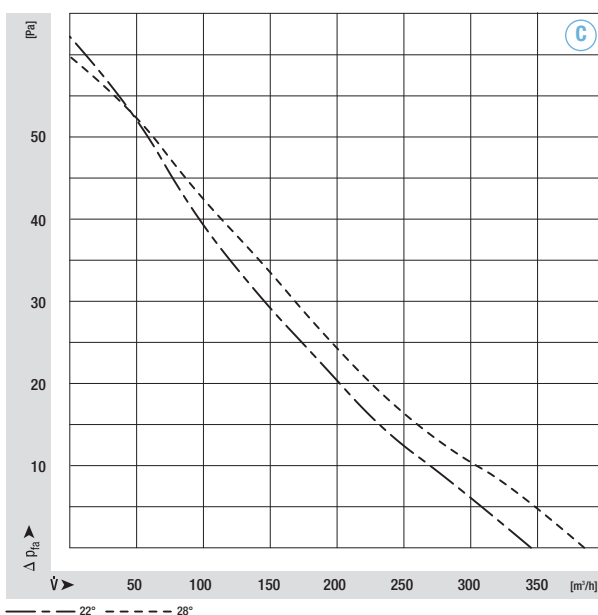
**iQ 3608, Ø 154**



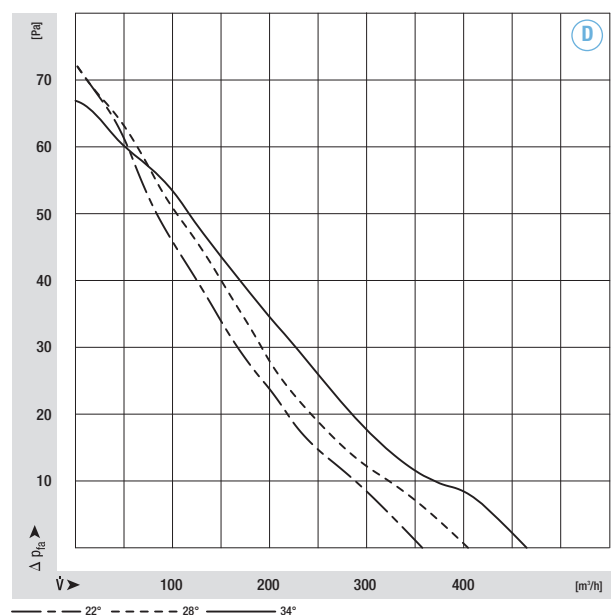
**iQ 3608, Ø 172**



**iQ 3608, Ø 200**

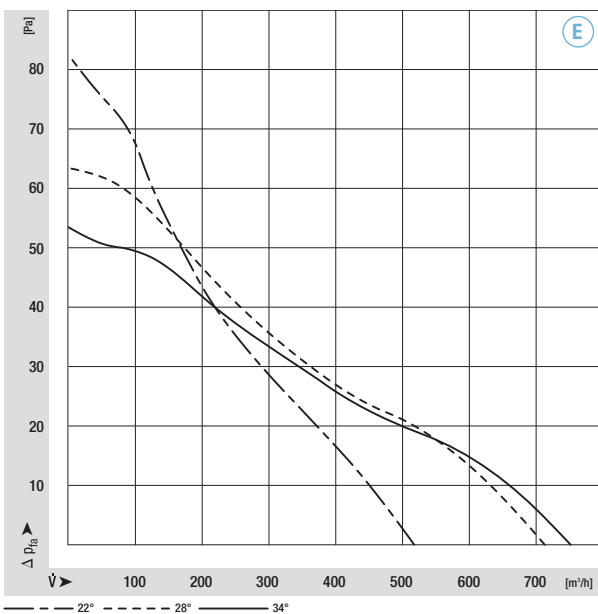


**iQ 3612, Ø 200**

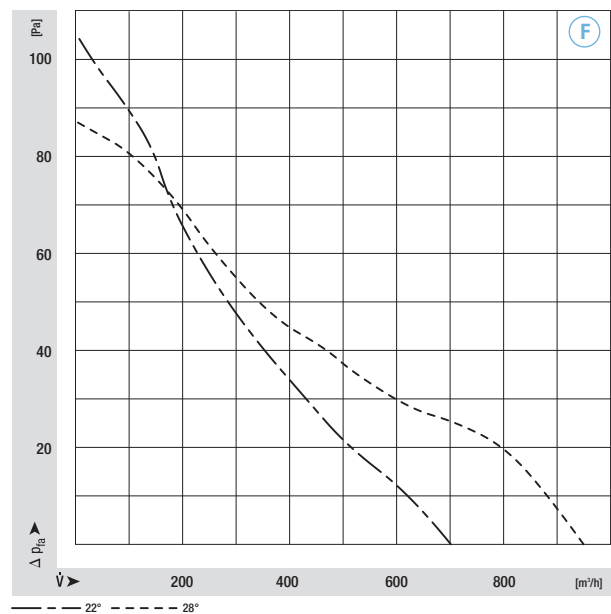


# Air performance curves measured in wall ring

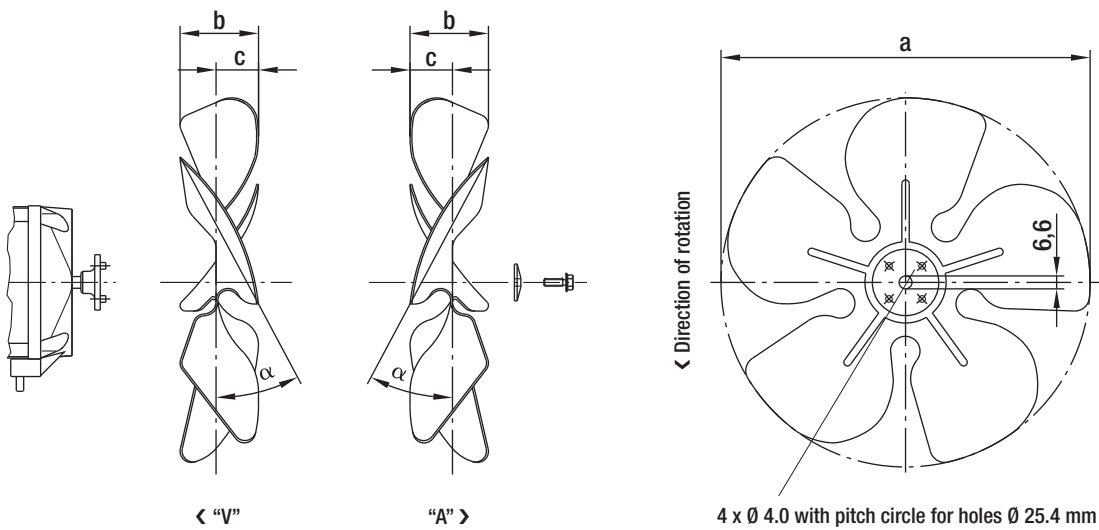
iQ 3612, Ø 230



iQ 3612, Ø 254



# Axial impellers



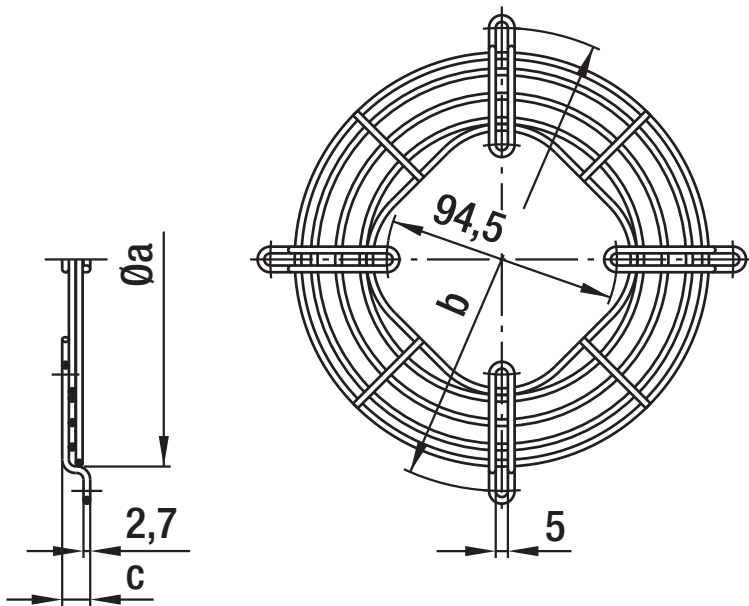
– Material: Sheet aluminium

## Axial impellers

Part no. for direction of air flow "V"	Part no. for direction of air flow "A"	Blade angle $\alpha$	a	b	c
73801-2-3634	73761-2-3634	$22^\circ \pm 1^\circ 30'$	154.0	27.5	14.0
73802-2-3634	73762-2-3634	$28^\circ \pm 1^\circ 30'$	154.0	32.0	16.0
73803-2-3634	73763-2-3634	$34^\circ \pm 1^\circ 30'$	154.0	37.0	18.0
73804-2-3634	73764-2-3634	$22^\circ \pm 1^\circ 30'$	172.0	31.0	14.5
73805-2-3634	73765-2-3634	$28^\circ \pm 1^\circ 30'$	172.0	36.0	17.0
73806-2-3634	73766-2-3634	$34^\circ \pm 1^\circ 30'$	172.0	42.0	21.0
73807-2-3634	73767-2-3634	$22^\circ \pm 1^\circ 30'$	200.0	32.0	15.5
73808-2-3634	73768-2-3634	$28^\circ \pm 1^\circ 30'$	200.0	37.5	18.0
73809-2-3634	73769-2-3634	$34^\circ \pm 1^\circ 30'$	200.0	45.0	22.0
73810-2-3634	73770-2-3634	$22^\circ \pm 1^\circ 30'$	230.0	35.0	17.5
73811-2-3634	73771-2-3634	$28^\circ \pm 1^\circ 30'$	230.0	43.0	21.5
73812-2-3634	73772-2-3634	$34^\circ \pm 1^\circ 30'$	230.0	50.0	24.0
73813-2-3634	73773-2-3634	$22^\circ \pm 1^\circ 30'$	254.0	37.0	19.0
73814-2-3634	73774-2-3634	$28^\circ \pm 1^\circ 30'$	254.0	45.0	23.5
73815-2-3634	73775-2-3634	$34^\circ \pm 1^\circ 30'$	254.0	52.0	26.0

subject to alterations

# Guard grilles



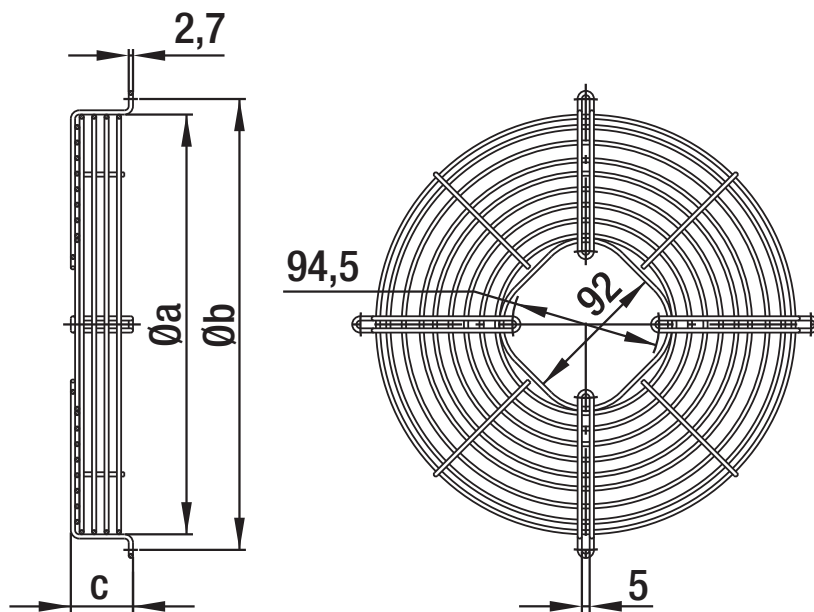
– **Material:** Steel, galvanized and blue chromated

## Guard grilles

Part no.	Size	Max. blade angle $\alpha$ at "V"	Max. blade angle $\alpha$ at "A"	a	b	c
50967-2-4039	154	34°	34°	170.0	190.0	11.5
50968-2-4039	172	34°	34°	188.0	208.0	11.5
50969-2-4039	200	34°	28°	214.0	236.0	11.5
50970-2-4039	230	28°	28°	246.0	266.0	17.5
50971-2-4039	254	28°	28°	270.0	290.0	17.5

subject to alterations

# Guard grilles



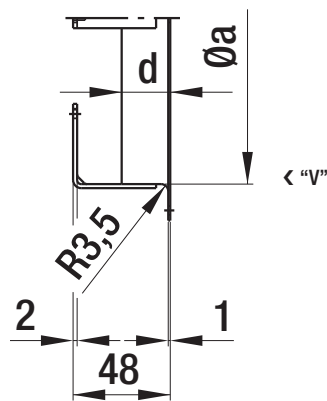
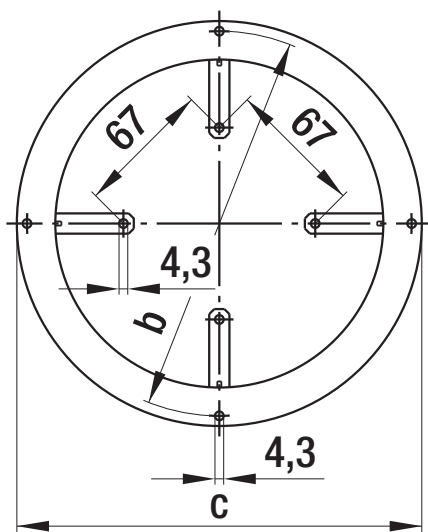
– **Material:** Steel, galvanized and blue chromated

## Basket guard grilles

Part no.	Size	Max. blade angle $\alpha$ at "V"	Max. blade angle $\alpha$ at "A"	a	b	c
66309-2-4039	172	34°	34°	188.0	208.0	37.5
66310-2-4039	200	34°	28°	212.0	236.0	37.5
66311-2-4039	230	28°	28°	246.0	266.0	40.0
66312-2-4039	254	28°	28°	270.0	290.0	40.0

subject to alterations

# Wall rings



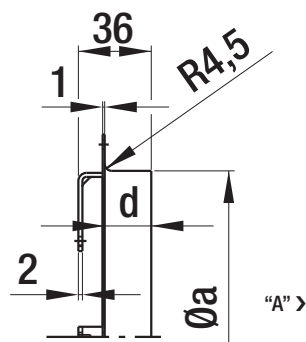
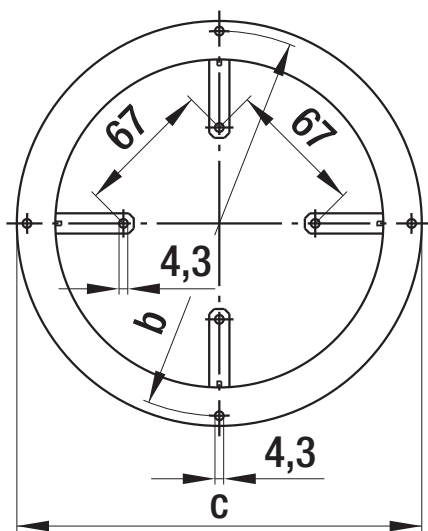
– **Material:** Sheet steel, coated in grey plastic

## Wall rings

Part no.	Size	Max. blade angle $\alpha$	a	b	c	d
52542-2-4037	154	34°	164.0	190.0	200.0	24.0
52543-2-4037	172	34°	182.0	208.0	223.0	24.0
52544-2-4037	200	34°	210.0	236.0	246.0	24.0
52545-2-4037	230	28°	240.0	266.0	276.0	24.0
52546-2-4037	254	28°	264.0	290.0	300.0	24.0

subject to alterations

# Wall rings



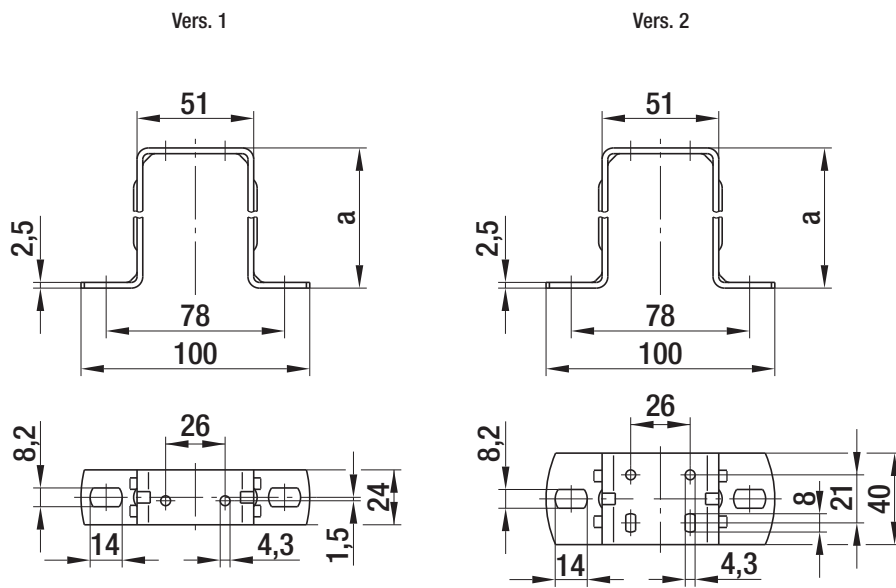
– **Material:** Sheet steel, coated in grey plastic

## Wall rings

Part no.	Size	Max. blade angle $\alpha$	a	b	c	d
52550-2-4037	154	34°	162.0	190.0	200.0	24.0
52551-2-4037	172	34°	180.0	208.0	223.0	24.0
52552-2-4037	200	28°	208.0	236.0	246.0	24.0
52553-2-4037	230	28°	238.0	266.0	276.0	24.0
52554-2-4037	254	28°	262.0	290.0	300.0	24.0

subject to alterations

# Mounting brackets



– **Material:** Sheet steel, galvanized and blue chromated

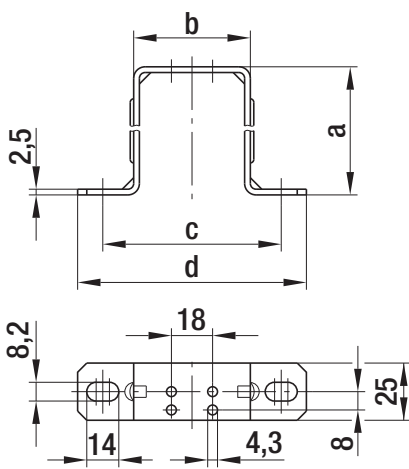
## Mounting brackets – foot measure 26 mm (standard or multifunction version)

Part no.	Size	Vers.	a
71881-2-4053	154	1	39.0
71882-2-4053	172	1	52.0
71883-2-4053	200	1	72.0
	230	1	72.0
71884-2-4053	254	1	84.0
71885-2-4053	254	2	84.0

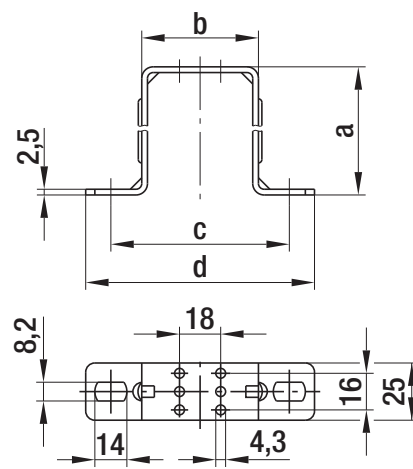
subject to alterations

# Mounting brackets

Vers. 1



Vers. 2







– **Material:** Sheet steel, galvanized and blue chromated

## Mounting brackets – foot measure 18 mm (multifunction version)

Part no.	Size	Vers.	a	b	c	d
51025-2-4053	172	1	56.0	51.0	78.0	100.0
51028-2-4053	200	1	67.0	51.0	78.0	100.0
51026-2-4053	230	1	74.5	51.0	78.0	100.0
51027-2-4053	254	2	85.5	51.0	78.0	100.0

subject to alterations

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

# ebm-papst representatives & subsidiaries

## Germany

### ebm-papst Muldingen GmbH & Co. KG

Bachmühle 2  
D-74673 Muldingen  
Phone +49 7938 81-0  
Fax +49 7938 81-110  
info1@de.ebmpapst.com

www.ebmpapst.com

### ebm-papst St. Georgen GmbH & Co. KG

Hermann-Papst-Straße 1  
D-78112 St. Georgen  
Phone +49 7724 81-0  
Fax +49 7724 81-1309  
info2@de.ebmpapst.com

www.ebmpapst.com

### ebm-papst Landshut GmbH

Hofmark-Aich-Straße 25  
D-84030 Landshut  
Phone +49 871 707-0  
Fax +49 871 707-465  
info3@de.ebmpapst.com

www.ebmpapst.com




## Agencies

 **Berlin**  
 Dipl.-Ing. (TH) Jens Duchow  
 Händelstraße 7  
D-16341 Panketal  
Phone +49 (0) 30 / 94 41 49 62  
Fax +49 (0) 30 / 94 41 49 63  
Jens.Duchow@de.ebmpapst.com

 **Bielefeld**  
 Dipl.-Ing. (FH) Wolf-Jürgen Weber  
 Niehausweg 13  
D-33739 Bielefeld  
Phone +49 (0) 52 06 / 9 17 32 31  
Fax +49 (0) 52 06 / 9 17 32 35  
Wolf-Juergen.Weber@de.ebmpapst.com

 **Dortmund**  
 Dipl.-Ing. (FH) Hans-Joachim Pundt  
 Auf den Steinern 3  
D-59519 Möhnesee-Völlinghausen  
Phone +49 (0) 29 25 / 80 04 07  
Fax +49 (0) 29 25 / 80 04 08  
Hans-Joachim.Pundt@de.ebmpapst.com

 **Frankfurt**  
 Dipl.-Ing. Christian Kleffmann  
 Dr.-Hermann-Krause-Straße 23  
D-63452 Hanau  
Phone +49 (0) 61 81 / 18 98 12  
Fax +49 (0) 61 81 / 18 98 13  
Christian.Kleffmann@de.ebmpapst.com

 **Halle**  
 Dipl.-Ing. (TU) Michael Hanning  
 Lerchenweg 4  
D-06120 Lieskau  
Phone +49 (0) 3 45 / 5 51 24 56  
Fax +49 (0) 3 45 / 5 51 24 57  
Michael.Hanning@de.ebmpapst.com




 **Hamburg**  
 Ingenieurbüro Breuell GmbH  
 Ing. Dirk Kahl  
Elektroingenieur  
Grützmühlenweg 40  
D-22339 Hamburg  
Phone +49 (0) 40 / 53 80 92 55  
Fax +49 (0) 40 / 53 80 92 84  
Dirk.Kahl@de.ebmpapst.com

 **Kassel**  
 Dipl.-Ing. (FH) Ralph Brück  
 Hoherainstraße 38  
D-35075 Gladenbach  
Phone +49 (0) 64 62 / 40 71 10  
Fax +49 (0) 64 62 / 40 71 11  
Ralph.Brueck@de.ebmpapst.com




 **Koblenz**  
 Winfried Schaefer  
 Hinter der Kirch 10  
D-56767 Uersfeld  
Phone +49 (0) 26 57 / 16 96  
Fax +49 (0) 26 57 / 16 76  
Winfried.Schaefer@de.ebmpapst.com

 **Munich**  
 Dipl.-Wirtsch.-Ing. (FH) Jens Peter  
 Steinbergweg 6  
D-82285 Hattenhofen  
Phone +49 (0) 81 45 / 80 92 25  
Fax +49 (0) 81 45 / 80 92 26  
Jens.Peter@de.ebmpapst.com

 **Nuremberg**  
 Friedrich Klein  
 Adlerstraße 49/1  
D-73540 Heubach  
Phone +49 (0) 71 73 / 49 83  
Fax +49 (0) 71 73 / 80 53  
Friedrich.Klein@de.ebmpapst.com

 **Offenburg**  
 Dipl.-Ing. (FH) Ralf Braun  
 Hubeneck 21  
D-77704 Oberkirch  
Phone +49 (0) 78 02 / 98 22 52  
Fax +49 (0) 78 02 / 98 22 53  
Ralf.Braun@de.ebmpapst.com

 **Stuttgart**  
 Dipl.-Ing. (FH) Rudi Weinmann  
 Hindenburgstraße 100/1  
D-73207 Plochingen  
Phone +49 (0) 71 53 / 92 89 80  
Fax +49 (0) 71 53 / 92 89 81  
Rudi.Weinmann@de.ebmpapst.com

 **Ulm**  
 Günter Wilhelm  
 Allgäuer Straße 7  
D-89269 Vöhringen  
Phone +49 (0) 73 06 / 92 46 08  
Fax +49 (0) 73 06 / 92 46 48  
Guentel.Wilhelm@de.ebmpapst.com

## Distributors

 **Frankfurt**  
 R.E.D. Handelsgesellschaft mbH  
 Gutenbergstraße 3  
D-63110 Rodgau - Jügesheim  
Phone +49 (0) 61 06 / 84 10  
Fax +49 (0) 61 06 / 84 11 11  
info@red-elektromechanik.de  
www.red-elektromechanik.de

 **Hamburg**  
 Breuell + Hilgenfeldt GmbH  
 Grützmühlenweg 40  
D-22339 Hamburg  
Phone +49 (0) 40 / 53 80 92 20  
Fax +49 (0) 40 / 53 80 92 84  
info@breuell-hilgenfeldt.de

 **Munich**  
 A. Schweißer GmbH  
 Ohmstraße 1  
D-82054 Sauerlach  
Phone +49 (0) 81 04 / 8 97 0  
Fax +49 (0) 81 04 / 8 97 90  
info@schweiger-gmbh.de  
www.schweiger-gmbh.com

● **Express Service-Center** (1 to 5 pieces)

 **North**  
 Breuell + Hilgenfeldt GmbH  
 Grützmühlenweg 40  
D-22339 Hamburg  
Phone +49 (0) 40 / 53 80 92 20  
Fax +49 (0) 40 / 53 80 92 84  
ebmpapst@breuell-hilgenfeldt.de

 **South**  
 HDS Ventilatoren Vertriebs GmbH  
 Glaswiesenstraße 1  
D-74677 Dörzbach  
Phone +49 (0) 79 37 / 80 29 68  
Fax +49 (0) 79 37 / 80 25 78  
info@hds-gmbh.net

## Europe

**Austria**  
ebm-papst Motoren & Ventilatoren GmbH  
Westbahnstraße 5  
A-4490 St. Florian  
Phone +43 / 72 24 / 66 01 10  
Fax +43 / 72 24 / 66 01 120  
info@at.ebmpapst.com  
www.ebmpapst.at

**Belarus**  
ebm-papst Bel AgmbH  
Prospekt Nesavisimosti 11/2 office 325, 512  
BY-220050 Minsk  
Phone +375 / 17 / 209 95 61  
Fax +375 / 17 / 209 95 61  
info@by.ebmpapst.com  
www.ebmpapst.by

**Belgium**  
VIBO Benelux B. V.  
Sales office Belgium-Luxemburg  
Romeinsestraat 6/0101  
Research Park Haasrode  
B-3001 Heverlee-Leuven  
Phone +32 / 16 / 39 62 00  
Fax +32 / 16 / 39 62 20  
info@vibobenelux.com  
www.vibobenelux.com

**Bulgaria**  
ebm-papst Romania S.R.L.  
Str. Tirnavei Nr. 20  
RO-500327 Brasov  
Phone +40 / 268 / 312 805  
Fax +40 / 268 / 312 805  
dudasludovic@xnet.ro

**Croatia**  
ebm-papst Industries Kft.  
Ezred u. 2.  
H-1044 Budapest  
Phone +36 / 1 / 87 22 190  
Fax +36 / 1 / 87 22 194  
office@hu.ebmpapst.com  
www.ebmpapst.hu


**Cyprus**  
MATERO LTD  
37, St. Kyriakides Avenue  
P.O. Box 51744  
CY-3080 Limassol  
Phone +357 / 25 / 87 00 30  
Fax +357 / 25 / 38 13 66  
matero@cytanet.com.cy  
www.matero.com.cy

**Czech Republic / Slovakia**  
ebm-papst CZ s.r.o.  
Krátká 379  
CZ-66461 Rajhradice u Brna  
Phone +420 / 547 / 232 617  
Fax +420 / 547 / 232 622  
info@ebmpapst.cz  
www.ebmpapst.cz

**Denmark**  
Jenk A/S  
Vallensbækvej 21  
DK-2605 Brøndby  
Phone +45 / 43 / 63 11 11  
Fax +45 / 43 / 63 05 05  
jenk@jenk.dk  
www.jenk.dk

**Estonia**  
ebm-papst Oy Eesti Filiaal  
Kadaka tee 3  
EST-10621 Tallinn  
Phone +372 / 65 56 / 978  
Fax +372 / 65 56 / 979  
www.ebmpapst.ee

**Finland**  
ebm-papst Oy  
Puistotie 1  
FIN-02760 Espoo  
Phone +358 / 9 / 88 70 22 0  
Fax +358 / 9 / 88 70 22 13  
mailbox@ebmpapst.fi  
www.ebmpapst.fi

**France**  
ebm-papst SARL  
ZI Nord - rue A. Mohler  
BP 62  
F-67212 Obernai-Cedex  
Phone +33 / 820 326 266  
Fax +33 / 3 / 88 67 38 83  
info@ebmpapst.fr  
www.ebmpapst.fr

**Greece**  
Helcoma  
Th. Rotas & Co OE  
Davaki 65  
GR-17672 Kallithea-Attiki  
Phone +30 / 210 / 951 37 05  
Fax +30 / 210 / 951 34 90  
contact@helcoma.gr  
www.helcoma.gr





**Hungary**  
ebm-papst Industries Kft.  
Ezred u. 2.  
H-1044 Budapest  
Phone +36 / 1 / 87 22 190  
Fax +36 / 1 / 87 22 194  
office@hu.ebmpapst.com  
www.ebmpapst.hu

**Iceland**  
RJ Engineers  
Stangarhyl 1A  
IS-110 Reykjavik  
Phone +354 / 567 80 30  
Fax +354 / 567 80 15  
rj@rj.is  
www.rj.is

**Ireland**  
ebm-papst Limited  
Portlaoise Business & Technology Park  
Mountrath Road  
IRL-Portlaoise, Co. Laois  
Phone +353 / 57 86 / 643 43  
Fax +353 / 57 86 / 643 46  
sales@ie.ebmpapst.com  
www.ebmpapst.ie

**Italy**  
ebm-papst Srl  
Via Cornaggia 108  
I-22076 Mozzate (Co)  
Phone +39 / 03 31 / 83 62 01  
Fax +39 / 03 31 / 82 15 10  
info@it.ebmpapst.com  
www.ebmpapst.it

**Macedonia**  
ebm-papst Industries Kft.  
Ezred u. 2.  
H-1044 Budapest  
Phone +36 / 1 / 87 22 190  
Fax +36 / 1 / 87 22 194  
office@hu.ebmpapst.com  
www.ebmpapst.hu

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

# ebm-papst representatives & subsidiaries





 **Netherlands**  
 VIBO Benelux B. V.  
 Engelseweg 127  
 Postbus 230  
 NL-5705 AC Helmond  
 Phone +31 / 4 92 / 50 29 00  
 Fax +31 / 4 92 / 50 29 50  
 verkoop@vibobenelux.com  
 www.vibobenelux.com

 **Norway**  
 ebm-papst AS  
 P.B. 173 Holmlia  
 N-1203 Oslo  
 Phone +47 / 22 / 76 33 40  
 Fax +47 / 22 / 61 91 73  
 mailbox@ebmpapst.no  
 www.ebmpapst.no





 **Poland**  
 ebm-papst Polska Sp. z o.o.  
 ul. Annopol 4A  
 PL-03236 Warszawa  
 Phone +48 / 22 / 675 78 19  
 Fax +48 / 22 / 676 95 87  
 office@ebmpapst.pl  
 www.ebmpapst.pl

 **Portugal**  
 ebm-papst (Portugal), Lda.  
 Av. Marechal Gomes da Costa, 35 e  
 Rua Conselheiro Emidio Navarro  
 P-1800-255 Lisboa  
 Phone +351 / 218 / 394 880  
 Fax +351 / 218 / 394 759  
 info@pt.ebmpapst.com  
 www.ebmpapst.pt

 **Romania**  
 ebm-papst Romania S.R.L.  
 Str. Tirnavei Nr. 20  
 RO-500327 Brasov  
 Phone +40 / 268 / 312 805  
 Fax +40 / 268 / 312 805  
 dudasludovic@xnet.ro

 **Russia**  
 ebm-papst Ural GmbH  
 Posadskaja-Strasse, 23(E), 3  
 RU-620102 Ekaterinburg  
 Phone +7 / 343 / 233 80 00  
 Fax +7 / 343 / 233 77 88  
 Konstantin.Molokov@ru.ebmpapst.com  
 www.ebmpapst.ur.ru

 ebm-papst Rus GmbH  
 Nizhegorodskaya 32, str. 15 office 420  
 RU-109029 Moskau  
 Phone +7 / 495 / 671 53 93  
 Fax +7 / 495 / 671 53 95  
 info@ebmpapst.ru  
 www.ebmpapst.ru

 ebm-papst Rus  
 Saint-Petersburg's Filial  
 Zastavskaya 7  
 RU-196084 Sankt-Petersburg  
 Phone +7 / 812 / 449 96 07  
 Fax +7 / 812 / 449 96 07  
 spb@ru.ebmpapst.com

 **Serbia & Montenegro**  
 ebm-papst Industries Kft.  
 Ezred u. 2.  
 H-1044 Budapest  
 Phone +36 / 1 / 87 22 190  
 Fax +36 / 1 / 87 22 194  
 office@hu.ebmpapst.com  
 www.ebmpapst.hu

 **Spain**  
 ebm-papst Ibérica S.L.  
 Avda. del Sistema Solar, 29  
 E-28830 San Fernando de Henares (Madrid)  
 Phone +34 / 91 / 678 08 94  
 Fax +34 / 91 / 678 15 30  
 ventas@ebmpapst.es

 **Sweden**  
 ebm-papst AB  
 Äggelundavägen 2  
 S-17562 Järfälla  
 Phone +46 / 8 / 761 94 00  
 Fax +46 / 8 / 36 23 06  
 info@ebmpapst.se  
 www.ebmpapst.se

 **Switzerland**  
 ebm-papst AG  
 Rütisbergstrasse 1  
 CH-8156 Oberhasli  
 Phone +41 / 44 / 732 20 70  
 Fax +41 / 44 / 732 20 77  
 verkauf@ebmpapst.ch  
 www.ebmpapst.ch

 **Turkey**  
 Akantel Elektronik San. Tic. LTD. Sti.  
 Atatürk Organize Sanayi  
 Bölgesi 10007 SK. No.:6  
 TR-35620 Cigli-Izmir  
 Phone +90 / 232 / 328 20 90  
 Fax +90 / 232 / 328 02 70  
 akantel@akantel.com.tr  
 www.ebmpapst.com.tr

 **Ukraine**  
 ebm-papst Ukraine LLC  
 Lepse Boulevard, 4, Building 47  
 UA-03067 Kiev  
 Phone +38 / 044 / 206 30 91  
 Fax +38 / 044 / 206 30 91  
 mail@ebmpapst.ua  
 www.ebmpapst.ua

 **United Kingdom**  
 ebm-papst UK Ltd.  
 Chelmsford Business Park  
 GB-Chelmsford Essex CM2 5EZ  
 Phone +44 / 12 45 / 46 85 55  
 Fax +44 / 12 45 / 46 63 36  
 sales@uk.ebmpapst.com  
 www.ebmpapst.co.uk

 ebm-papst Automotive & Drives (UK) Ltd.  
 The Smithy  
 Fidlers Lane, East Ilsley  
 GB-Berkshire RG20 7LG  
 Phone +44 / 87 07 / 66 51 70  
 Fax +44 / 87 07 / 66 51 80  
 A&Dsales@uk.ebmpapst.com  
 www.ebmpapst-ad.com

## America

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### Argentina

ebm-papst de Argentina S.A.  
Hernandarias 148 Lomas del Mirador  
Pcia. de Buenos Aires (1752)  
Phone +54 / 11 46 57 61 35  
Fax +54 / 11 46 57 20 92  
ventas@ar.ebmpapst.com  
www.ebmpapst.com.ar



### Brasil

ebm-papst Motores Ventiladores Ltda.  
Av. José Giorgi, 301 Galpões B6+B7  
Condominio Logical Center  
BR-06707-100 Cotia - São Paulo  
Phone +55 / 11 / 31 64 89 00  
Fax +55 / 11 / 47 77 14 56  
vendas@br.ebmpapst.com  
www.ebmpapst.com.br



### Canada

ebm-papst Canada Inc.  
1800 Ironstone Manor, Unit 2  
CDN-Pickering, Ontario, L1W3J9  
Phone +1 / 905 / 420 / 35 33  
Fax +1 / 905 / 420 / 37 72  
sales@ca.ebmpapst.com  
www.ebmpapst.ca



### Mexico

ebm Industrial S.de R.L. de C.V.  
Paseo de Tamarindos 400-A-5º Piso  
Col. Bosques de las Lomas  
MEX-Mexico 05120, D.F.  
Phone +52 / 55 / 33 00 51 44  
Fax +52 / 55 / 33 00 52 43  
sales@mx.ebmpapst.com  
www.ebmpapst.com.mx



## USA

ebm-papst Inc.  
P.O. Box 4009  
100 Hyde Road  
USA-Farmington, CT 06034  
Phone +1 / 860 / 674 15 15  
Fax +1 / 860 / 674 85 36  
sales@us.ebmpapst.com  
www.ebmpapst.us



ebm-papst Automotive & Drives, Inc.  
3200 Greenfield, Suite 255  
USA-Dearborn, MI 48120  
Phone +1 / 313 / 406 80 80  
Fax +1 / 313 / 406 80 81  
automotive@us.ebmpapst.com  
www.ebmpapst-automotive.us

## Africa

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### South Africa

ebm-papst South Africa (Pty) Ltd.  
P.O. Box 3124  
1119 Yacht Avenue  
ZA-2040 Honeydew  
Phone +27 / 11 / 794 34 34  
Fax +27 / 11 / 794 50 20  
info@za.ebmpapst.com  
www.ebmpapst.co.za



fan agent



compact fan agent



motor specialist



motor agent

# ebm-papst representatives & subsidiaries

## Asia



### China



ebm-papst Ventilator (Shanghai) Co., Ltd.  
 No. 418, Huajing Road  
 WaiGaoQiao Free Trade Zone  
 No. 2001, Yang Gao (N) Road  
 VRC-200131 Shanghai, P.R. of China  
 Phone +86 / 21 / 50 46 01 83  
 Fax +86 / 21 / 50 46 11 19  
 sales@cn.ebmpapst.com  
 www.ebmpapst.com.cn



### Hong Kong



ebm-papst Ventilator (Shanghai) Co., Ltd.  
 Hong Kong Representative Office  
 Unit Nos. 13-15, 9/F, Technology Park  
 18 On Lai Street, Siu Lek Yuen, Shatin,  
 N.T. Hong Kong P.R. of China  
 Phone +852 / 21 45 / 86 78  
 Fax +852 / 21 45 / 76 78  
 info@hk.ebmpapst.com



### India



ebm NADI International Pvt Ltd.  
 26/3, G.N.T. Road, Erukkencherry  
 IND-Chennai-600118  
 Phone +91 / 44 / 25 37 25 56  
 Fax +91 / 44 / 25 37 11 49  
 ebmnadi@md2.vsnl.net.in  
 www.ebmnadi.com



### Indonesia



ebm-papst Indonesia  
 Wisma Slipi, Jl. Letjend S. Parman Kav. 12  
 14th Floor, No. 1410  
 RI-11480 Jakarta Barat  
 Phone +62 / 21 / 53 66 19 01  
 Fax +62 / 21 / 53 66 19 05  
 salesdept@id.ebmpapst.com



### Israel



Polak Bros. Import Agencies Ltd.  
 9 Hamefalsim Street  
 IL-Kiryat Arie, Petach-Tikva 49514  
 Phone +972 / 3 / 910 03 00  
 Fax +972 / 3 / 579 66 79  
 polak@polak.co.il  
 www.polak.co.il



### Japan



ebm-papst Industries Japan K.K.  
 12 Floor, Benex S-3 Bldg.  
 3-20-8 Shinyokohama, Kohoku-ku  
 J-222-0033 Yokohama  
 Phone +81 / 45 / 470 / 57 51  
 Fax +81 / 45 / 470 / 57 52  
 info@jp.ebmpapst.com  
 www.ebmpapst.jp



### Korea



ebm-papst Korea Co. Ltd.  
 6F, Trutec Bldg.  
 B 6-2, Digital Media City (DMC)  
 Sangam-Dong, Mapo-Gu  
 ROK-Seoul 121-270  
 Phone +82 / 2 / 36 62 / 13 24  
 Fax +82 / 2 / 36 62 / 13 26  
 info@kr.ebmpapst.com  
 www.ebmpapst.co.kr



### Malaysia



ebm-papst Malaysia  
 Representative Office  
 Block F1, 9A-4, Jln PJU 1/42  
 Dataran Prima  
 MAL-47301 Petaling Jaya  
 Phone +60 / 3 / 78 06 54 40  
 Fax +60 / 3 / 78 06 54 41  
 salesdept@my.ebmpapst.com



### Singapore



ebm-papst SEA Pte. Ltd.  
 No. 23 Ubi Road 4  
 #06-00 Olympia Industrial Building  
 SGP-Singapore 408620  
 Phone +65 / 65 51 37 89  
 Fax +65 / 68 42 84 39  
 salesdept@sg.ebmpapst.com



### Taiwan



ETECO Engineering & Trading Corp.  
 10F-I, No. 92, Teh-Wei Str.  
 RC-Tsow-Inn District, Kaohsiung  
 Phone +886 / 7 / 557 42 68  
 Fax +886 / 7 / 557 27 88  
 eteco@ms22.hinet.net



### Thailand



ebm-papst Thailand Co., Ltd.  
 99/349 Na-Nakorn Bldg., 4th Floor  
 Chaeng Wattana Road, Thungsonghong,  
 THA-10210 Laksi, BKK  
 Phone +66 / 2 / 5 76 15 24  
 Fax +66 / 2 / 5 76 15 42  
 salesdept@th.ebmpapst.com



### United Arab Emirates



ebm-papst Middle East FZE  
 PO Box 17755  
 Jebel Ali Free Zone / FZS1 / AP05  
 UAE-Dubai  
 Phone +971 / 4 / 886 08 26  
 Fax +971 / 4 / 886 08 27  
 info@ae.ebmpapst.com  
 www.ebmpapst.ae

## Australia

---



### Australia

ebm-papst A&NZ Pty Ltd.

10 Oxford Road

AUS-Laverton North, Victoria, 3026

Phone +61 / 3 / 83 25 64 00

Fax +61 / 3 / 83 25 64 64

[sales@ebmpapst.com.au](mailto:sales@ebmpapst.com.au)

[www.ebmpapst.com.au](http://www.ebmpapst.com.au)



### New Zealand

ebm-papst A&NZ Pty Ltd.

102 Henderson Valley Road

NZ-Henderson, Auckland 1230

Phone +64 / 9 / 837 18 84

Fax +64 / 9 / 837 18 99

[sales@ebmpapst.com.au](mailto:sales@ebmpapst.com.au)

[www.ebmpapst.com.au](http://www.ebmpapst.com.au)