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"

ebmpapst
The ultimate
EC-Technology



General overview of iQ-motor data

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

iQ – Intelligence that pays

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_2.



Reduction in power input:	Annual reduction in energy consumption:	Annual reduction in energy costs:	Annual reduction in emissions:
70 %	**38 MWh**	**≈ 4,950 euros total**	**22.6 tonnes CO_2**

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

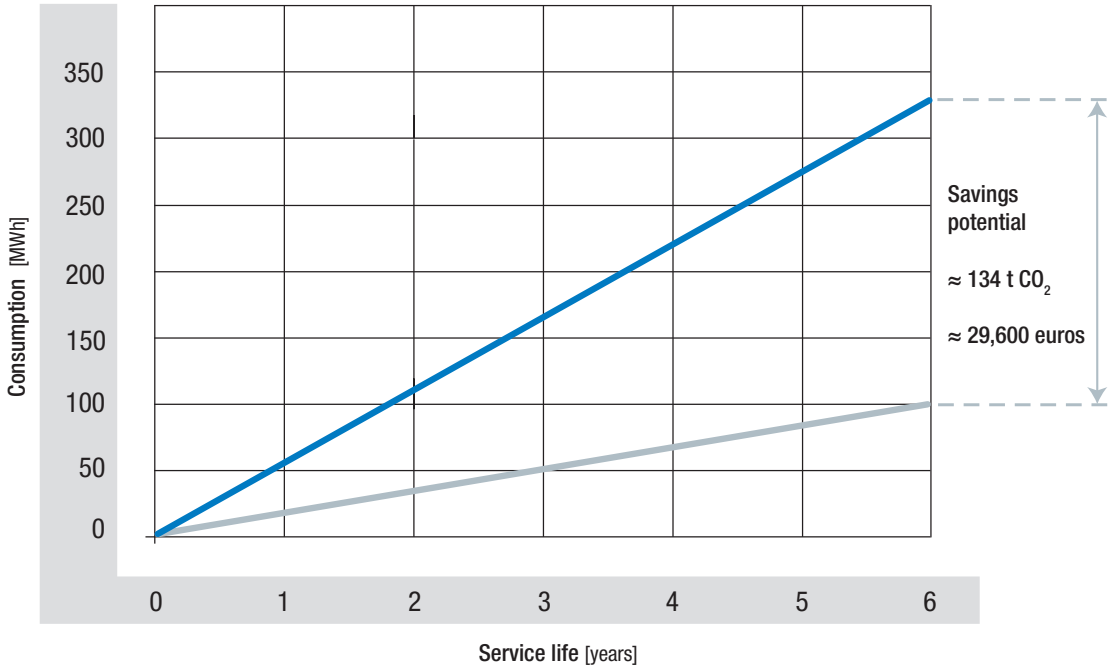
iQ-motor in energy-saving calculator

How much energy and cost could the iQ-motor save in your company? And how much CO_2 emission could be prevented? The ebm-papst energy-saving calculator on 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_2 emissions factor: 0.596 kg per kWh (Federal Environment Agency, Dessau, May 2008)

iQ 3612
AC-shaded-pole motor (comparable)





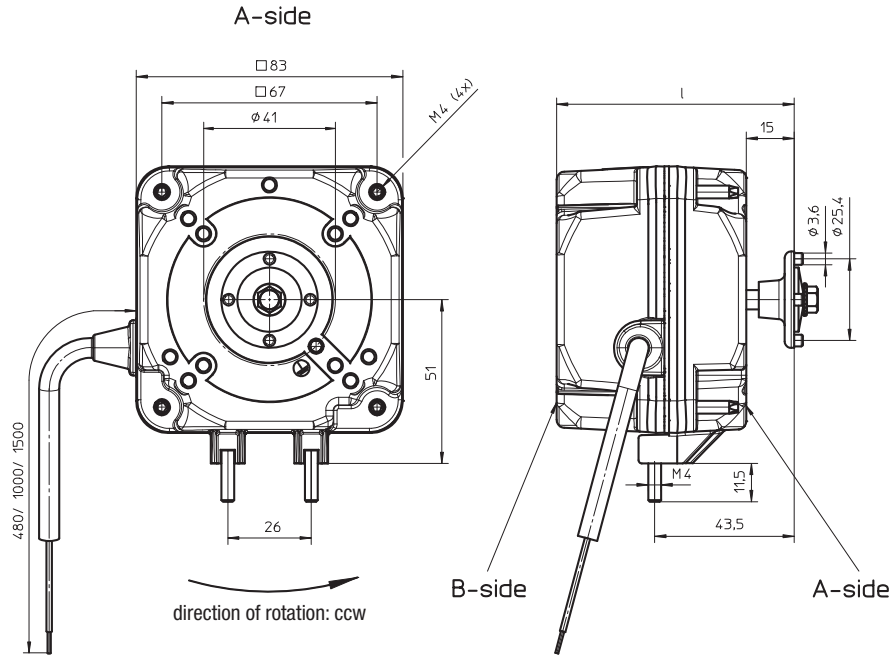


Technical data

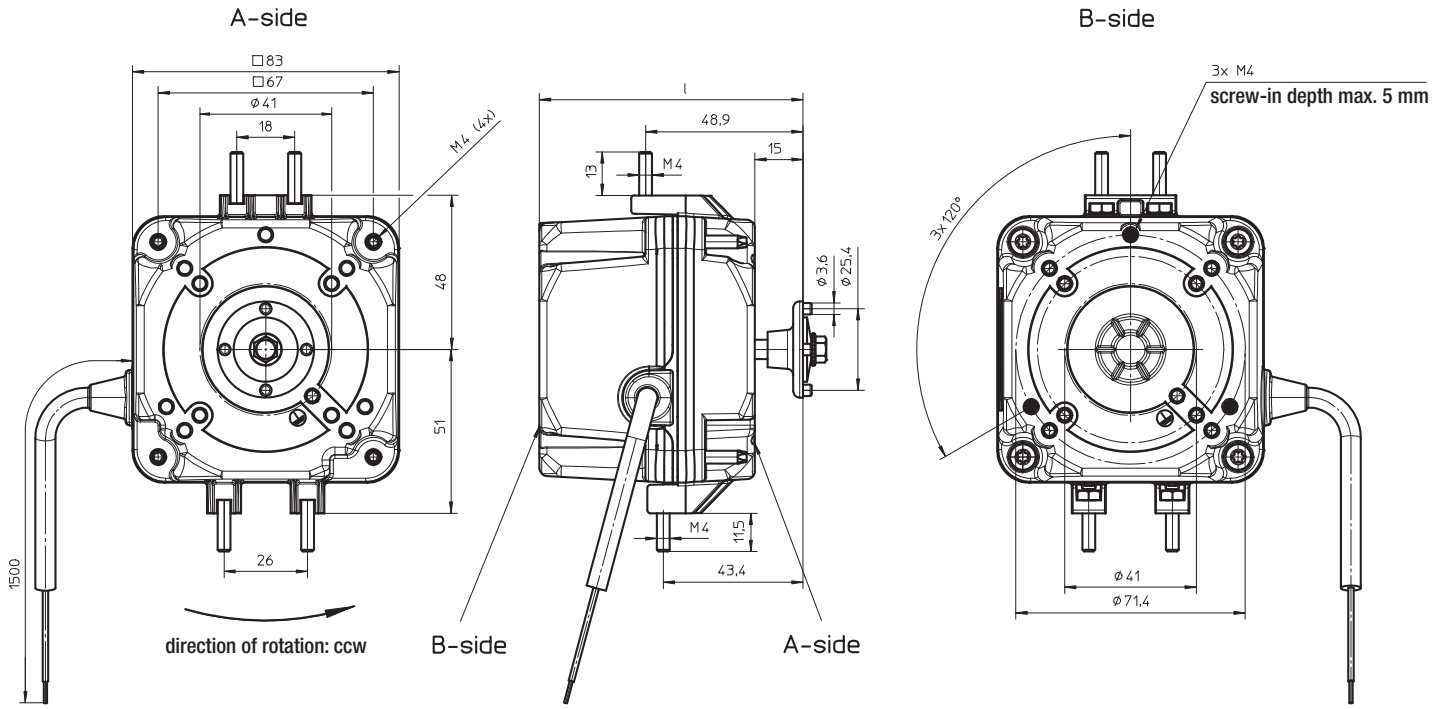
Technical data	Voltage	Frequency	Speed	Output capacity	Temperature	Weight	Dimension l (see drawing)
Motor	**V**	**Hz**	**rpm**	**W**	**°C**	**kg**	**mm**
iQ 3608	220–240	50/60	1,300	3	–40 to +50	0.5	74
	115*	50/60	1,550	3	–40 to +50	0.5	74
iQ 3612	220–240	50/60	1,300	10	–40 to +50	0.6	82
	115*	50/60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

*as of second quarter 2009

Standard version

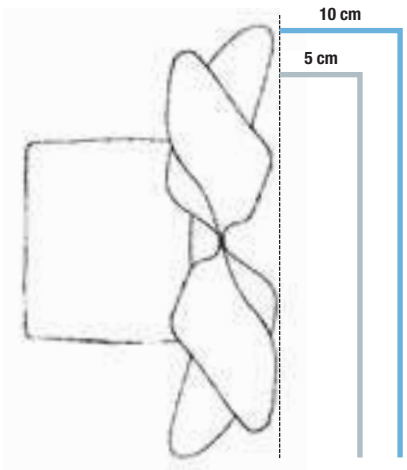


Multifunction version



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**	**m³/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**	**m³/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 …

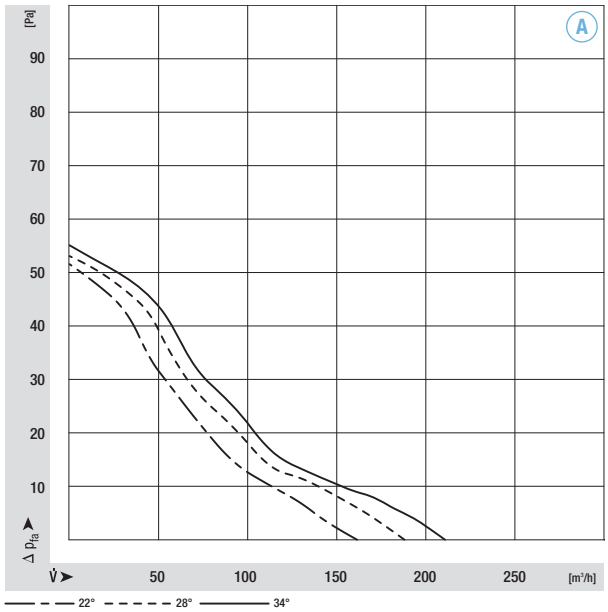
* running at free air

** at a distance of 10 cm from the wall

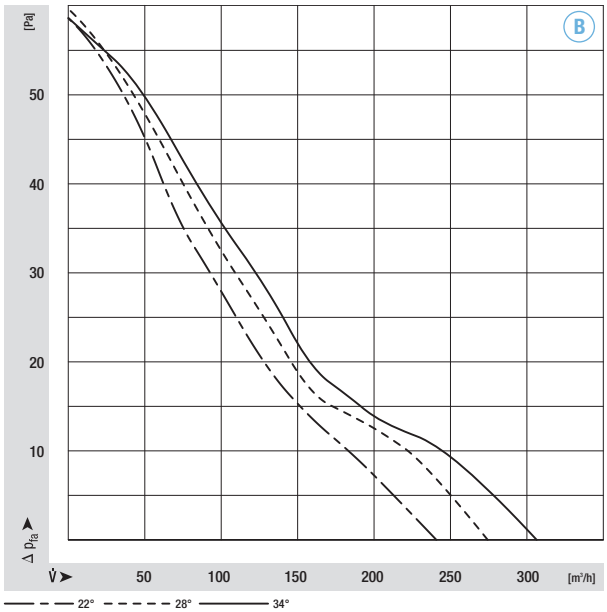
*** at a distance of 5 cm from the wall

Air performance curves measured in wall ring

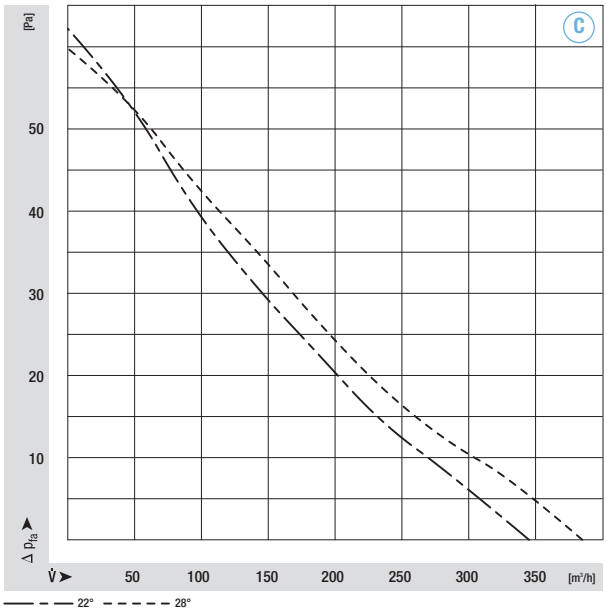
iQ 3608, Ø 154



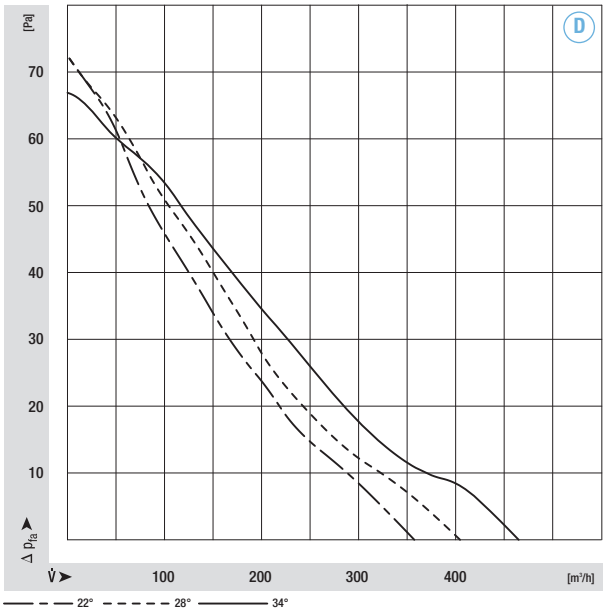
iQ 3608, Ø 172



iQ 3608, Ø 200

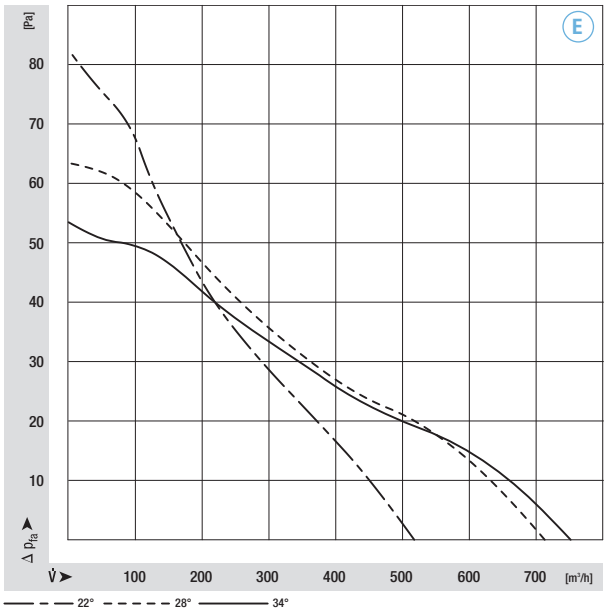


iQ 3612, Ø 200

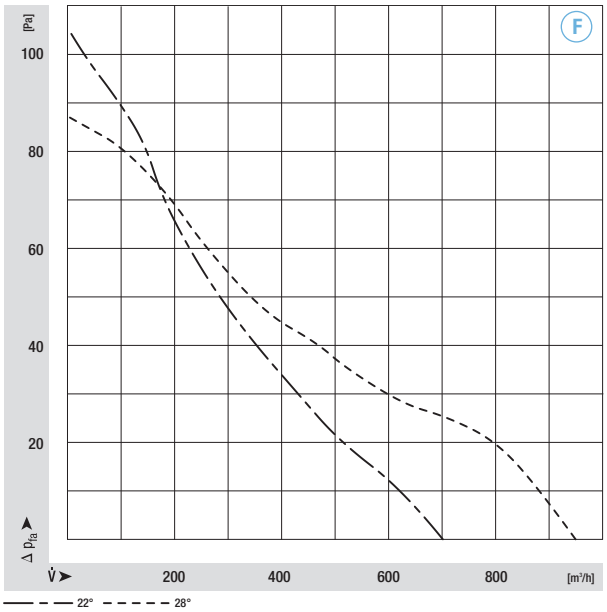


Air performance curves measured in wall ring

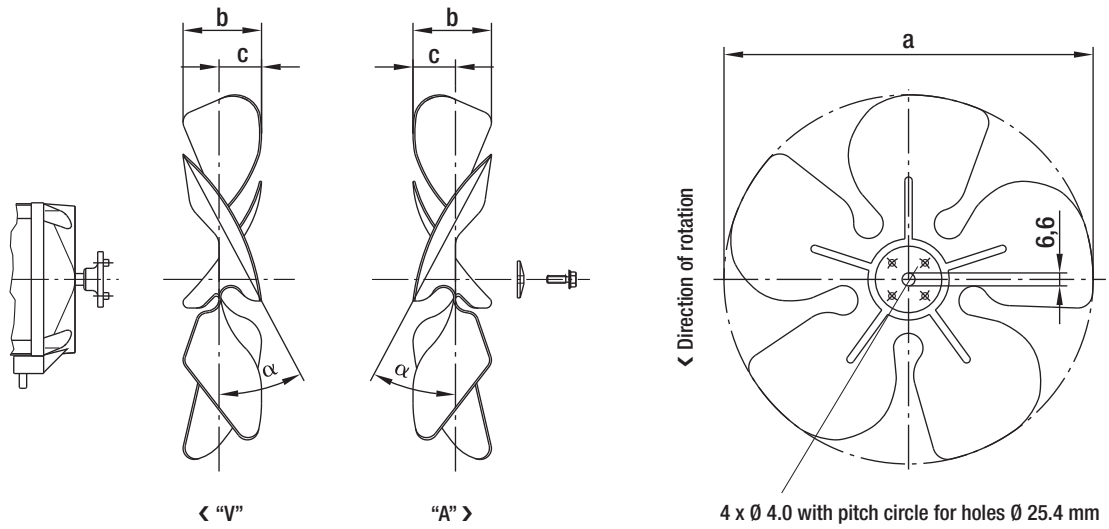
iQ 3612, Ø 230



iQ 3612, Ø 254



Axial impellers



‹ "V" "A" ›

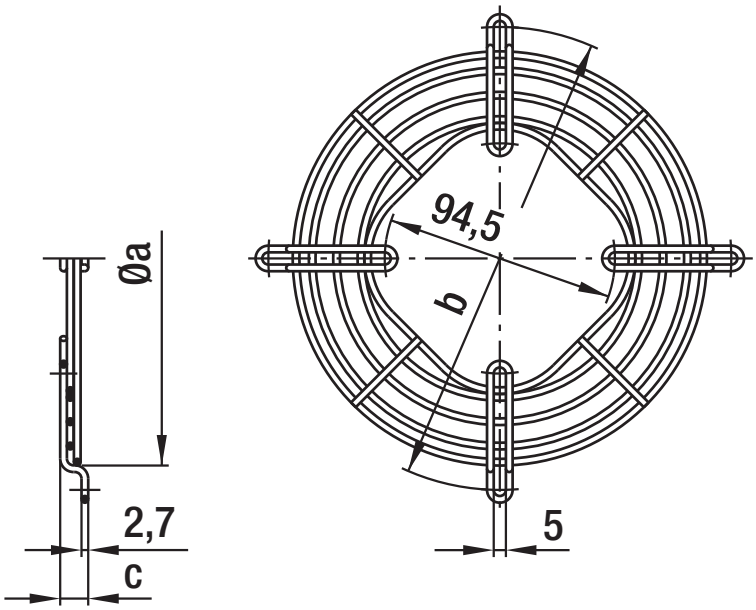
– **Material:** Sheet aluminium

Axial impellers

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

subject to alterations

Guard grilles



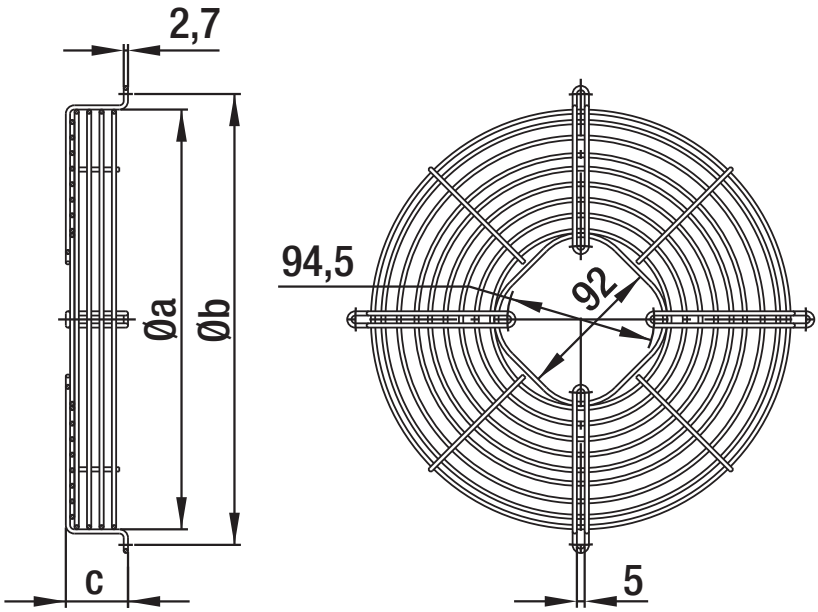
– **Material:** Steel, galvanized and blue chromated

Guard grilles

Part no.	Size	Max. blade angle α at "V"	Max. blade angle α 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



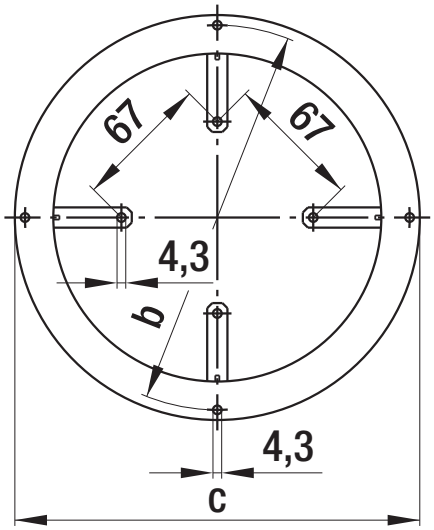
– **Material:** Steel, galvanized and blue chromated

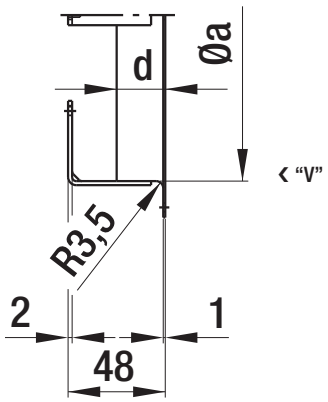
Basket guard grilles

Part no.	Size	Max. blade angle α at "V"	Max. blade angle α 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





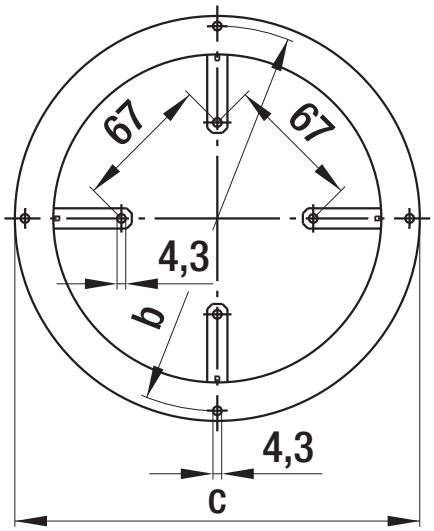
– **Material:** Sheet steel, coated in grey plastic

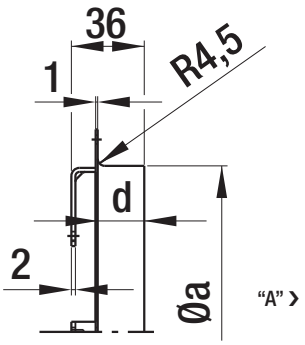
Wall rings

Part no.	Size	Max. blade angle α	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

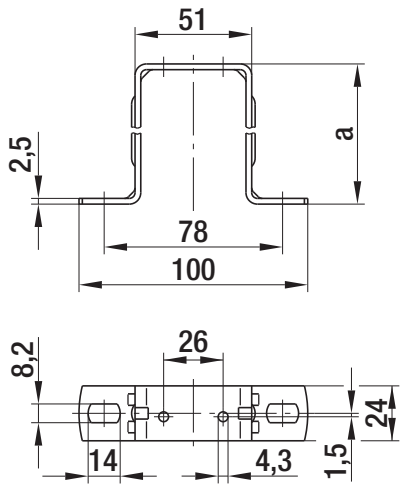
Wall rings

Part no.	Size	Max. blade angle α	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

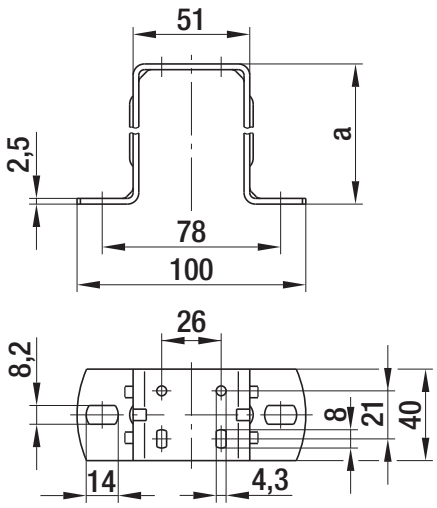
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Mounting brackets

Vers. 1



Vers. 2



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

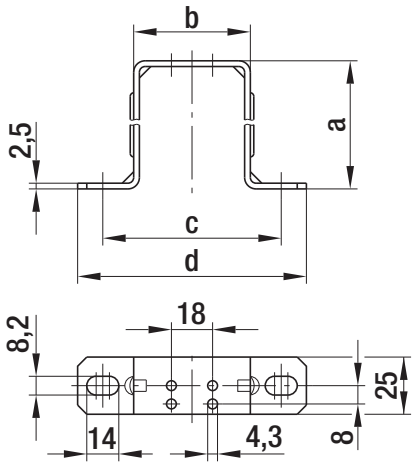
Mounting brackets – foot measure 26 mm (standard or multifunction version)

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	

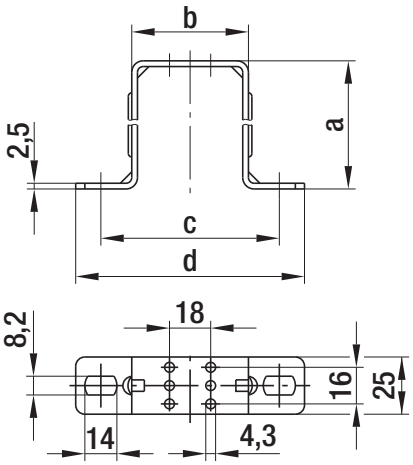
subject to alterations

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

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