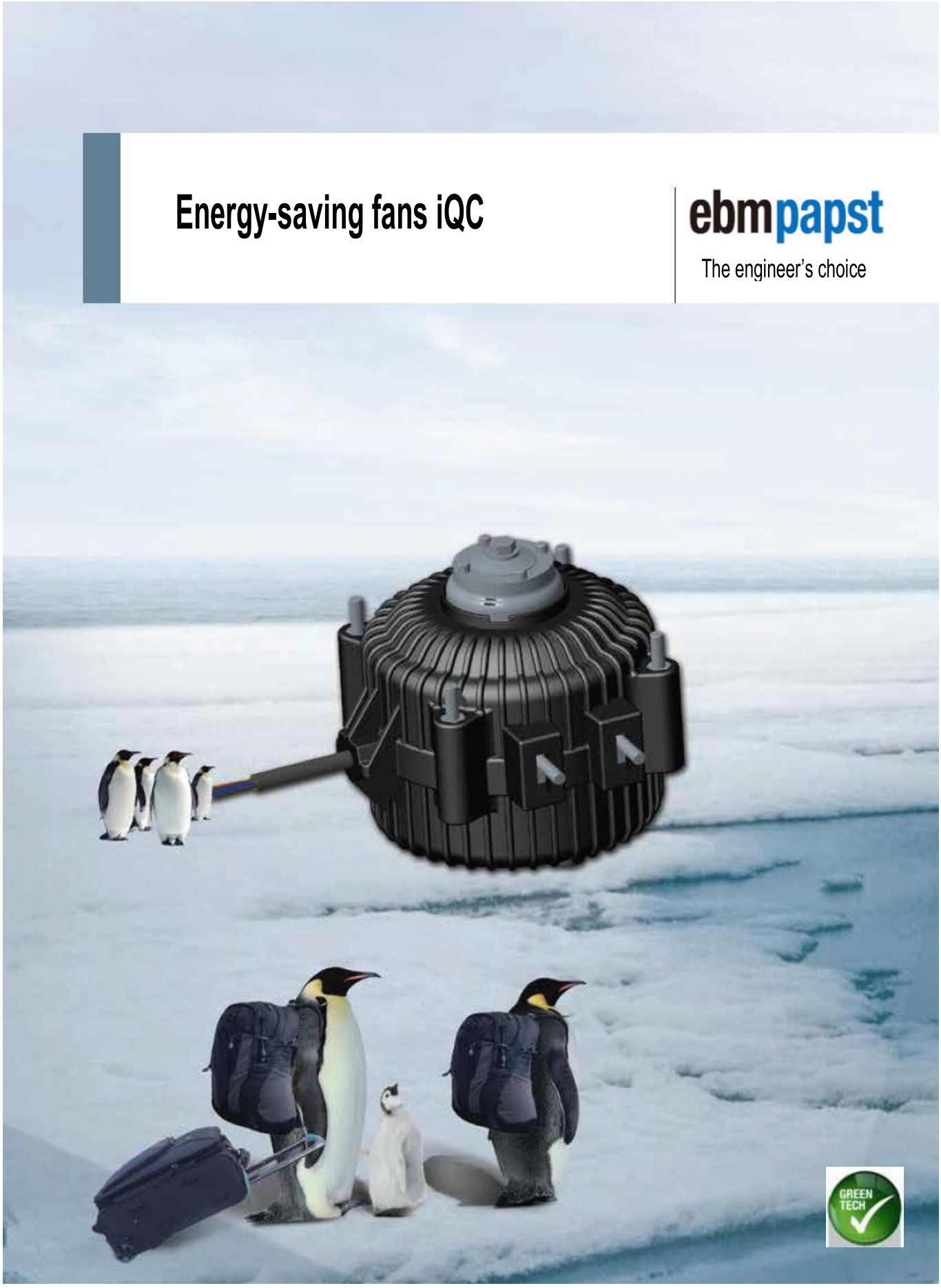
Energy-saving fans iQC

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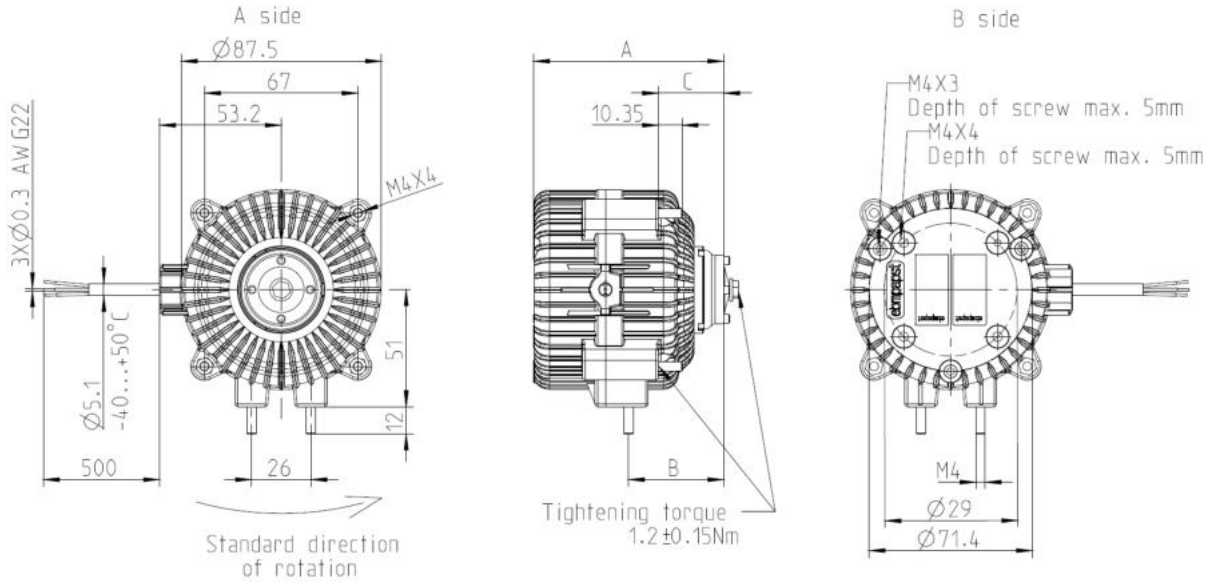
The engineer's choice



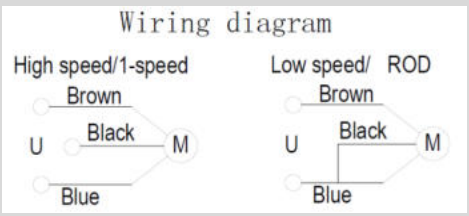
Technical data

Nominal data		Nominal voltage	Frequency	Speed/rpm	Output power	Perm. Amb. Temp.	Mass	Dimensions		
Type	**Feature**	**V**	**Hz**	**rpm**	**W**	**℃**	**Kg**	**A**	**B**	**C**
iQC 3608	ROS**, 1 Speed	220-240	56/60	Max. 1800	6.5	-40..+50	0,5	83	41,5-43,5	28,5
	ROS**, 2 Speed	220-240	56/60	900*/1800	6.5	-40..+50	0,5			
	ROD	220-240	56/60	Max. 1800	6.5	-40..+50	0,5			
iQC 3612	ROS**, 1 Speed	220-240	56/60	Max. 1800	15	-40..+50	0,5	85	43,5-45,5	30,5
	ROS**, 2 Speed	220-240	56/60	900*/1800	15	-40..+50	0,5			
	ROD	220-240	56/60	Max. 1800	15	-40..+50	0,5			

*900rpm could be changed on demand(100 integer multiple) **ROS could be canceled on demand ROS: reverse on start 700rpm ROD: reverse on demand 500rpm



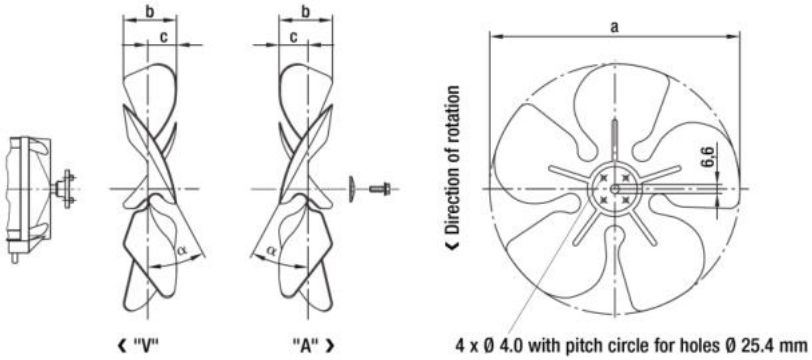
General overview of data: iQC

Material	PBT	**Protection class**	**II**
Direction of air flow	Sucking or blowing(Depending on axial impeller used)	**Approvals**	CCC; VDE
Direction of rotation	Counterclockwise, seen on shaft end	**Mounting attachment parts**	Guard grille and wall ring are attached to the projecting thread ends on the A side
System of protection	IP55	**Axial impeller attachment**	A plastic adapter with catching peg and M4 screw is used to secure the impeller on the motor shaft
Insulation class	"B"	**Wire diagram**	
Mounting position	Any		
Mode of operation	Continuous operation(S1)		
Bearing	Maintenance-free ball bearing		
Motor protection	Via electronics		
Electrical connection	Mains cable		
Ambient temperature:	-40℃…+50℃		
Relative humidity:	0…95%		

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No.	Type	Nominal Voltage	Nominal Frequency	Rated Rotation Speed	Rated Input Power	Rated Output Power	Rated Current
ROS	IQC3608-*	220-240V	50/60Hz	700	7.00	2.70	0.07
ROD	IQC3608-*	220-240V	50/60Hz	500	6.60	2.10	0.07
1	IQC3608-*	220-240V	50/60Hz	300	6.63	1.50	0.07
2	IQC3608-*	220-240V	50/60Hz	400	6.96	1.87	0.07
3	IQC3608-*	220-240V	50/60Hz	500	7.13	2.27	0.07
4	IQC3608-*	220-240V	50/60Hz	600	7.38	2.65	0.08
5	IQC3608-*	220-240V	50/60Hz	700	7.59	3.05	0.08
6	IQC3608-*	220-240V	50/60Hz	800	7.92	3.38	0.08
7	IQC3608-*	220-240V	50/60Hz	900	8.33	3.70	0.08
8	IQC3608-*	220-240V	50/60Hz	1000	8.63	4.08	0.09
9	IQC3608-*	220-240V	50/60Hz	1100	8.89	4.44	0.09
10	IQC3608-*	220-240V	50/60Hz	1200	9.28	4.78	0.09
11	IQC3608-*	220-240V	50/60Hz	1300	9.55	5.12	0.09
12	IQC3608-*	220-240V	50/60Hz	1400	9.89	5.43	0.10
13	IQC3608-*	220-240V	50/60Hz	1500	10.17	5.74	0.10
14	IQC3608-*	220-240V	50/60Hz	1600	10.53	6.03	0.10
15	IQC3608-*	220-240V	50/60Hz	1700	10.79	6.28	0.10
16	IQC3608-*	220-240V	50/60Hz	1800	11.00	6.50	0.11
ROS	IQC3612-*	220-240V	50/60Hz	700	16.10	6.00	0.15
ROD	IQC3612-*	220-240V	50/60Hz	500	15.00	4.67	0.14
17	IQC3612-*	220-240V	50/60Hz	300	12.51	2.50	0.12
18	IQC3612-*	220-240V	50/60Hz	400	12.42	3.24	0.12
19	IQC3612-*	220-240V	50/60Hz	500	13.62	4.11	0.13
20	IQC3612-*	220-240V	50/60Hz	600	13.98	4.95	0.13
21	IQC3612-*	220-240V	50/60Hz	700	14.79	5.80	0.14
22	IQC3612-*	220-240V	50/60Hz	800	15.97	6.74	0.15
23	IQC3612-*	220-240V	50/60Hz	900	16.29	7.37	0.15
24	IQC3612-*	220-240V	50/60Hz	1000	16.88	8.13	0.15
25	IQC3612-*	220-240V	50/60Hz	1100	18.06	9.07	0.16
26	IQC3612-*	220-240V	50/60Hz	1200	19.45	10.15	0.17
27	IQC3612-*	220-240V	50/60Hz	1300	20.20	10.97	0.18
28	IQC3612-*	220-240V	50/60Hz	1400	20.89	11.73	0.18
29	IQC3612-*	220-240V	50/60Hz	1500	21.59	12.51	0.19
30	IQC3612-*	220-240V	50/60Hz	1600	22.26	13.20	0.19
31	IQC3612-*	220-240V	50/60Hz	1700	22.85	14.00	0.20
32	IQC3612-*	220-240V	50/60Hz	1800	23.00	15.00	0.20

Axial impellers



- **Material:** Sheet aluminium

Axial impellers

Part no. for dlr. of air flow "V"	Part no. for dlr. 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	73710-2-3634	22°±1°30'	230,0	35,0	17,5
73811-2-3634	73711-2-3634	28°±1°30'	230,0	43,0	21,5
73812-2-3634	73712-2-3634	34°±1°30'	230,0	50,0	24,0
73813-2-3634	73713-2-3634	22°±1°30'	254,0	37,0	19,0
73814-2-3634	73714-2-3634	28°±1°30'	254,0	45,0	23,5
73815-2-3634	73715-2-3634	34°±1°30'	254,0	52,0	26,0
73816-2-3634	73716-2-3634	22°±1°30'	300,0	43,0	21,5
73817-2-3634	73717-2-3634	28°±1°30'	300,0	53,5	26,5
73818-2-3634	73718-2-3634	34°±1°30'	300,0	61,0	30,0

Subject to alterations

iQC-motor-combination with axial impellers

Power input and air flow

Motor	Axial impeller diameter	Axial impeller blade angle	n = 1300 rpm			n = 1500 rpm			n = 1800 rpm		
			Input power running at full throttle	Input power running at free air	Air flow at free air	Input power running at full throttle	Input power running at free air	Air flow at free air	Input power running at full throttle	Input power running at free air	Air flow at free air
iQC 3608	mm	°	W	W	m3/h	W	W	m3/h	W	W	m3/h
	154	22	5.30	2.72	154	6.70	3.30	177	8.12	4.50	215
	154	28	5.45	2.75	165	7.87	3.60	193	9.24	4.97	232
	154	34	7.11	3.80	196	9.90	4.66	228	9.74	6.89	277
	172	22	7.52	2.99	191	10.15	3.73	222	9.41	4.83	262
	172	28	9.33	3.90	238	10.79	5.27	278	10.09	6.71	331
	172	34	9.72	5.17	296	10.71	5.50	338	10.92	7.30	420
	200	22	10.51	3.94	314	10.90	5.72	364	10.95	7.89	432
	200	28	10.62	7.21	435	10.95	9.26	504			
iQC 3612	mm	°	W	W	m3/h	W	W	m3/h	W	W	m3/h
	172	28	10.14	4.88	243	13.59	6.00	280	21.00	8.15	338
	172	34	11.92	6.48	296	16.66	8.04	342	22.27	11.41	410
	200	22	13.74	6.04	317	17.95	7.69	361	22.55	9.33	435
	200	28	19.37	9.49	441	22.80	13.18	508	22.67	17.29	312
	200	34	22.74	10.33	492	22.80	13.62	566	22.86	19.21	674
	230	22	22.04	9.19	538	22.16	12.43	615	22.34	18.04	743
	230	28	22.66	14.51	677	22.44	20.99	775			
	230*	34	22.79	19.83	779						
	254	22	22.40	10.40	740	22.40	15.80	850			
	254*	28	22.20	22.20	920						

subject to alterations

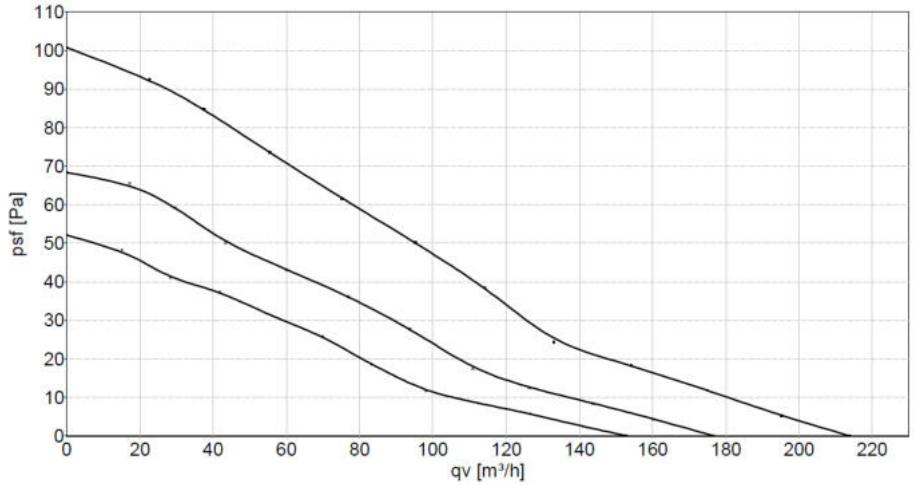
* Depending on back pressure, full nominal speed of 1500 min^{-1} is not reached to some part. Depending on mounting situation and version, a speed of approx. 1200 min^{-1} (+/- 100 min^{-1}) is reached. Due to the intelligent electronics, however, safe (permanent) operation is still guaranteed.

Power ratings(220-240 V design): Power input and air flow at 230V/50Hz and a constant speed

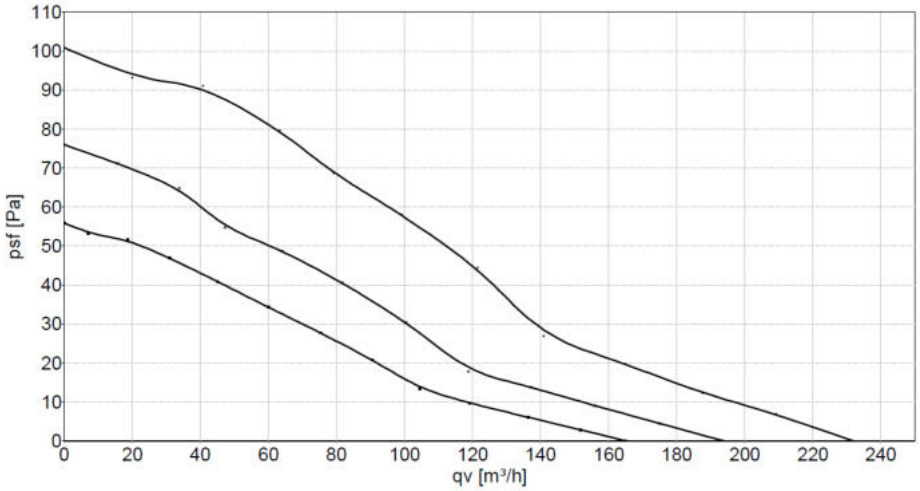
iQC-motor

Air performance curves measured in wall ring, at constant speed

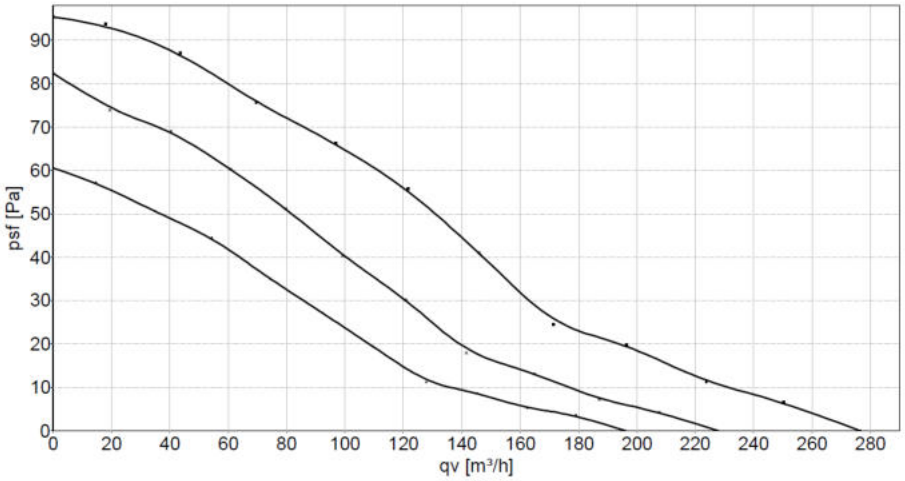
iQC 3608, Φ154@22°



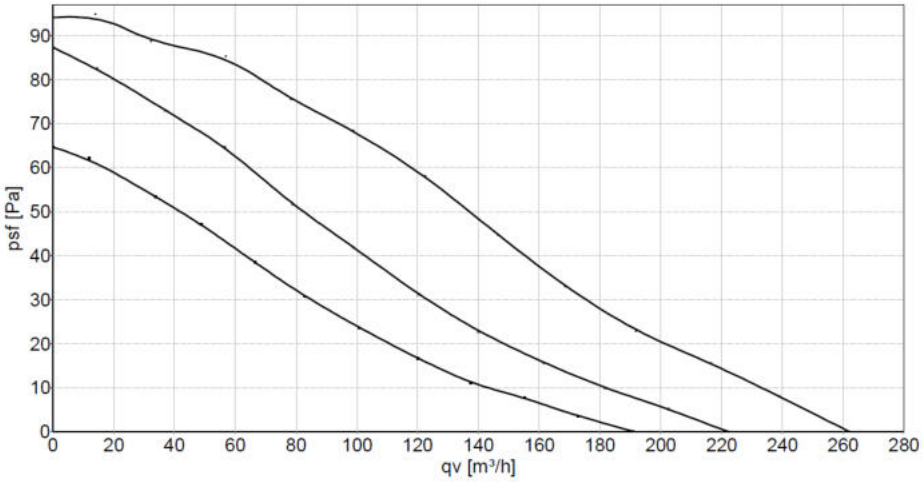
iQC 3608, Φ154@28°



iQC 3608, Φ154@34°



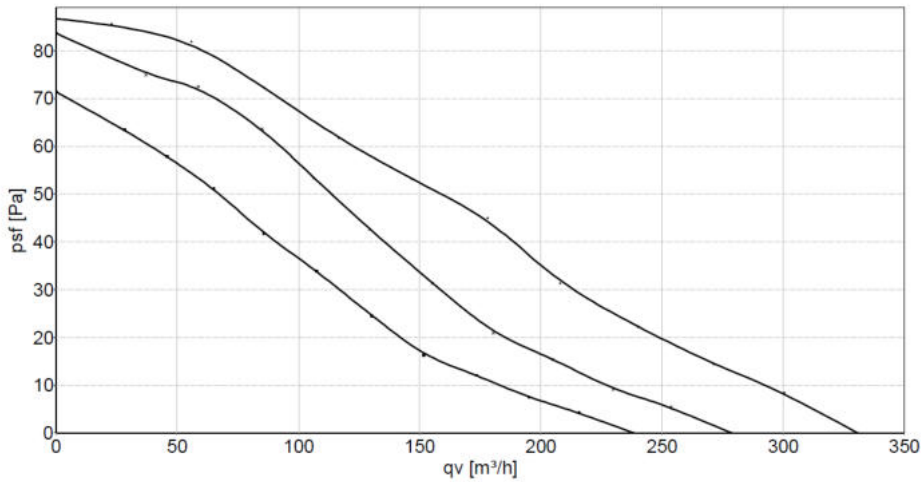
iQC 3608, Φ172@22°



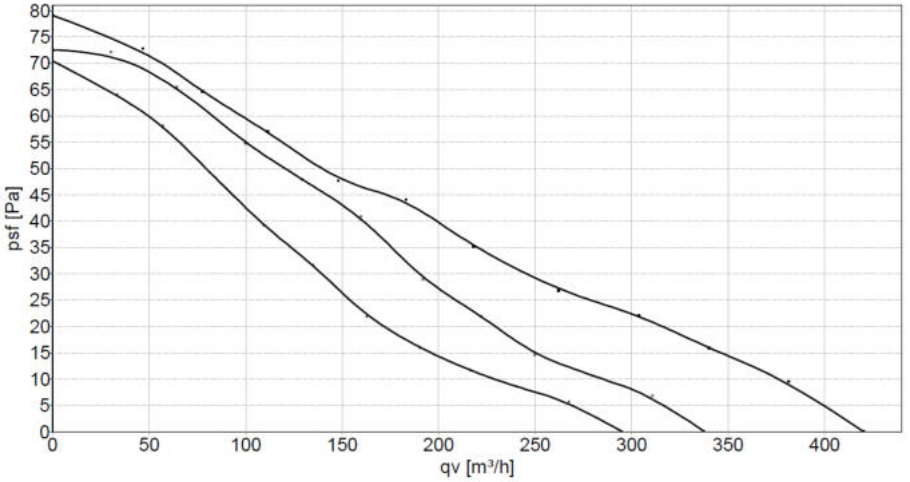
3 Curves: Speed of 1300rpm 1500rpm and 1800rpm

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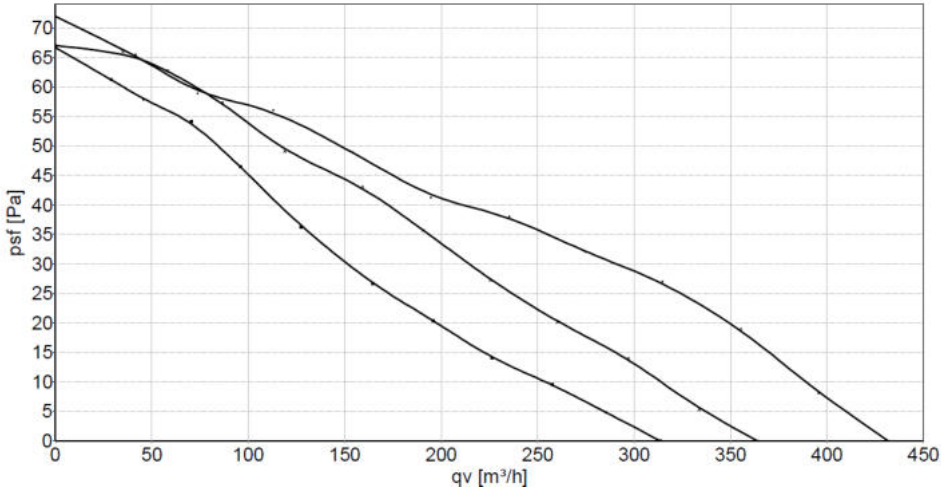
iQC 3608, Φ172@28°



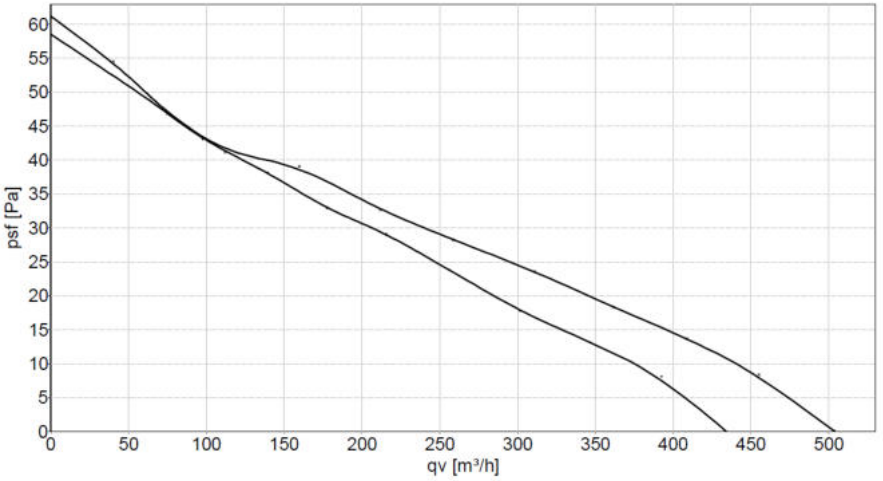
iQC 3608, Φ172@34°



iQC 3608, Φ200@22°



iQC 3608, Φ200@28°

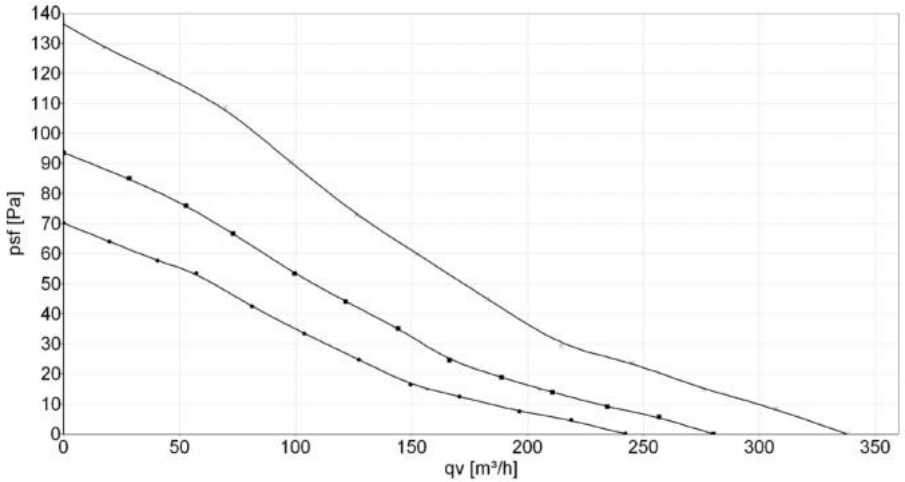


2 Curves: Speed of 1300rpm and 1500rpm

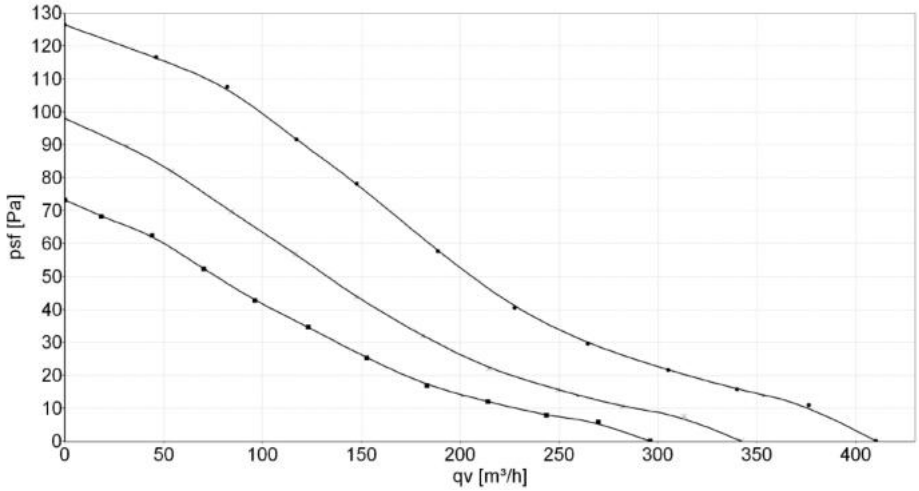
3 Curves: Speed of 1300rpm 1500rpm and 1800rpm

ebmpapst

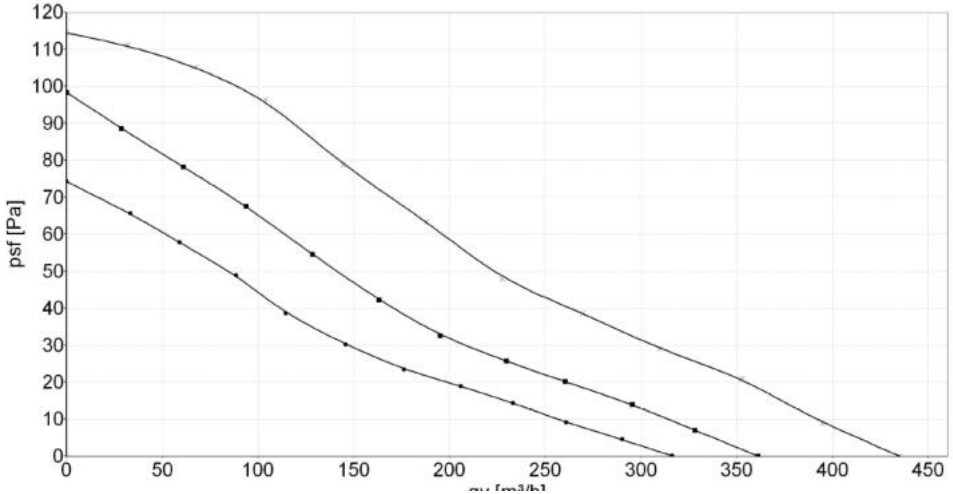
iQC 3612, Φ172@28°



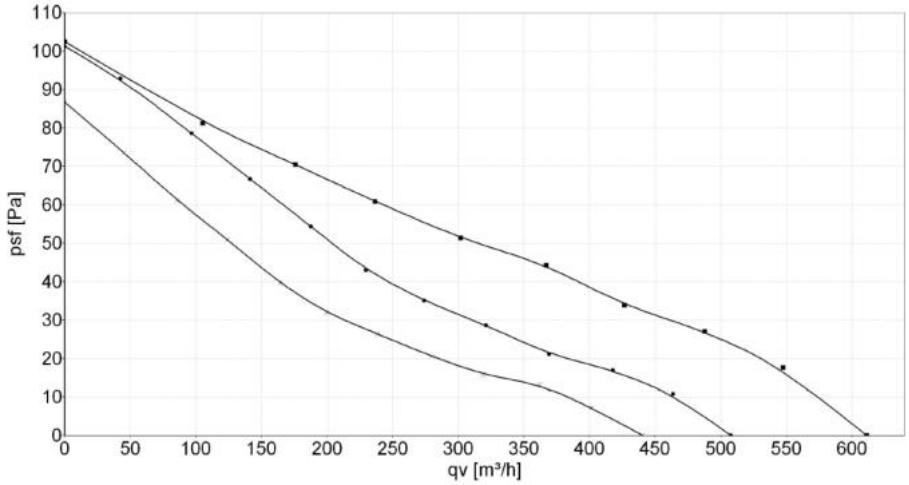
iQC 3612, Φ172@34°



iQC 3612, Φ200@22°



iQC 3612, Φ200@28°

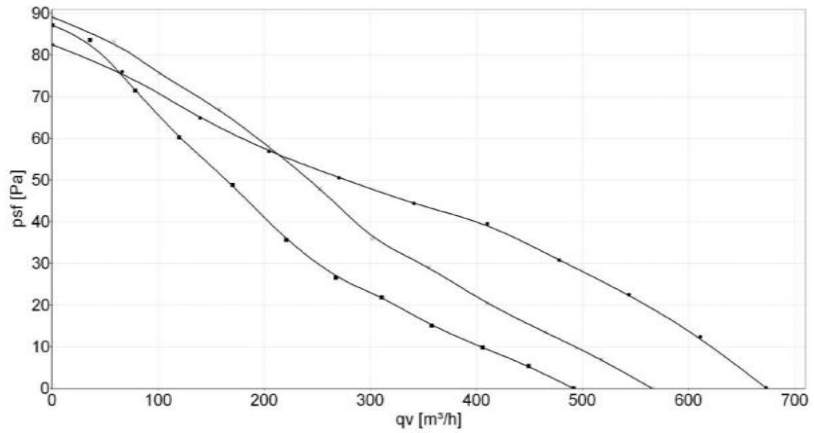


2 Curves: Speed of 1300rpm and 1500rpm

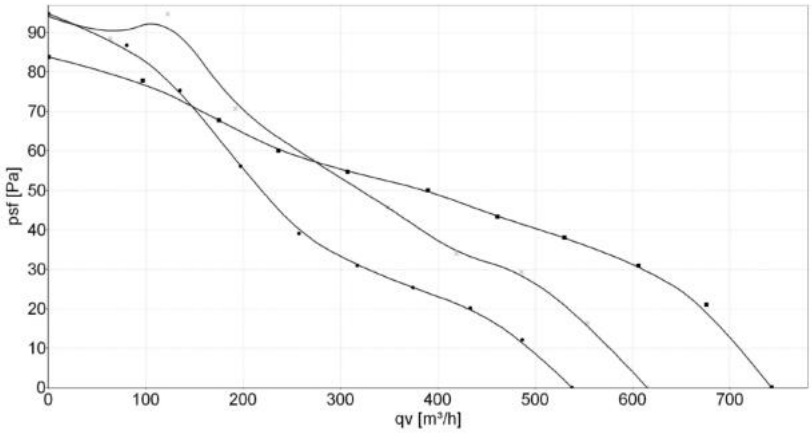
3 Curves: Speed of 1300rpm 1500rpm and 1800rpm

ebmpapst

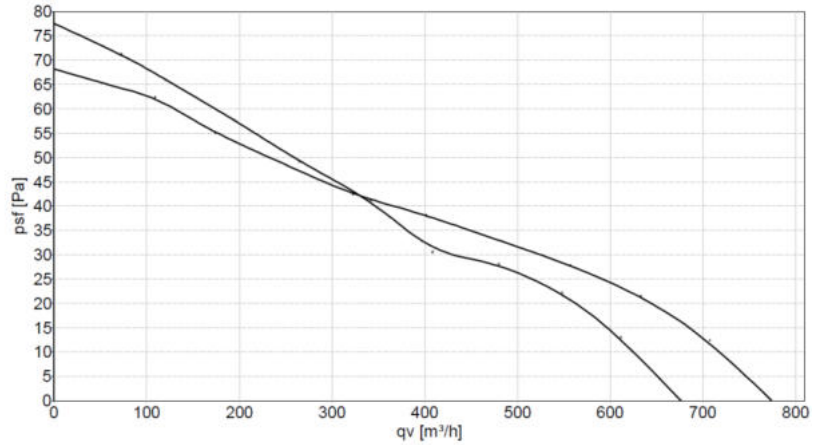
iQC 3612, Φ200@34°



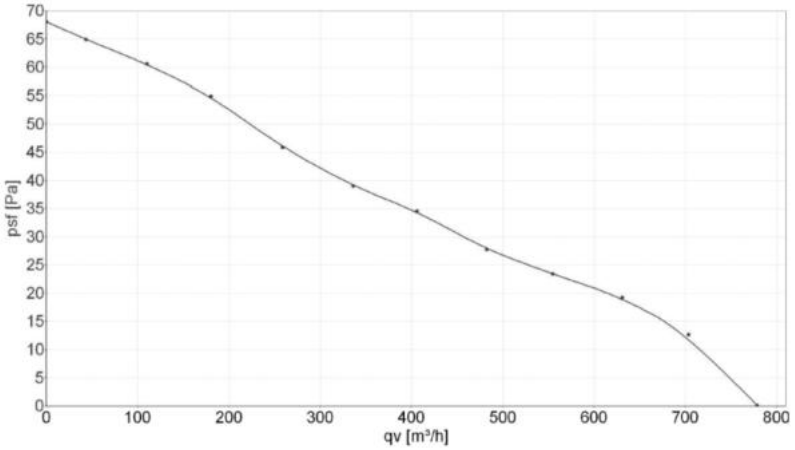
iQC 3612, Φ230@22°



iQC 3612, Φ230@28°



iQC 3612, Φ230* @34°



2 Curves: Speed of 1300rpm and 1500rpm

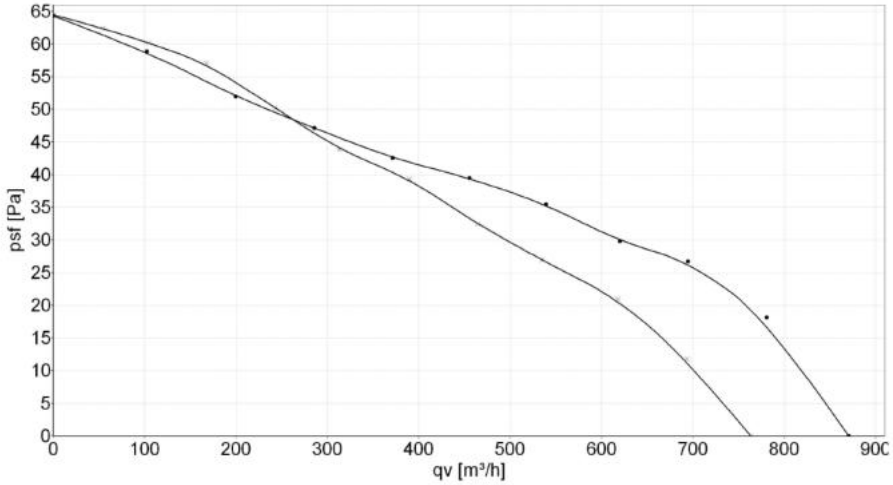
3 Curves: Speed of 1300rpm 1500rpm and 1800rpm

subject to alterations

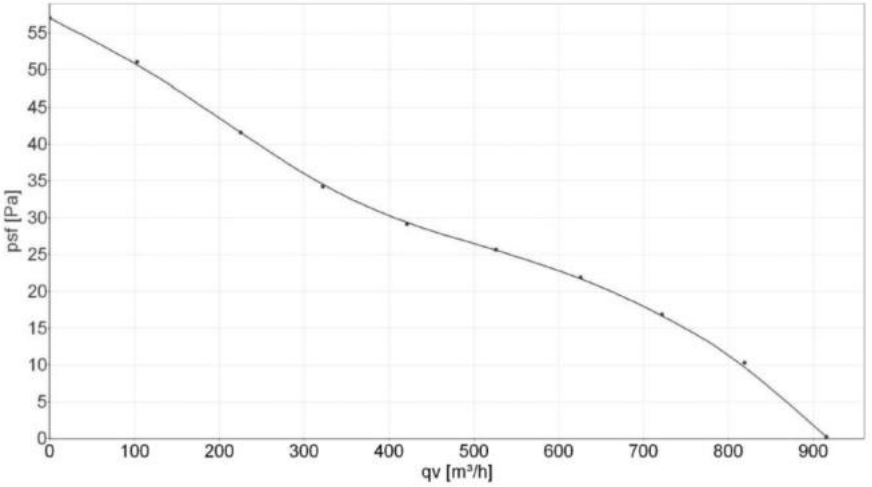
* Depending on back pressure, full nominal speed of 1500 min^{-1} is not reached to some part. Depending on mounting situation and version, a speed of approx. 1200 min^{-1} (+/- 100 min^{-1}) is reached. Due to the intelligent electronics, however, safe (permanent) operation is still guaranteed.

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iQC 3612, Φ254@22°



iQC 3612, Φ254* @28°



1 Curve : Speed of 1300rpm

2 Curves: Speed of 1300rpm and 1500rpm

3 Curves: Speed of 1300rpm 1500rpm and 1800rpm

subject to alterations

* Depending on back pressure, full nominal speed of 1500 min^{-1} is not reached to some part. Depending on mounting situation and version, a speed of approx. 1200 min^{-1} (+/- 100 min^{-1}) is reached. Due to the intelligent electronics, however, safe (permanent) operation is still guaranteed.

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The engineer’s choice