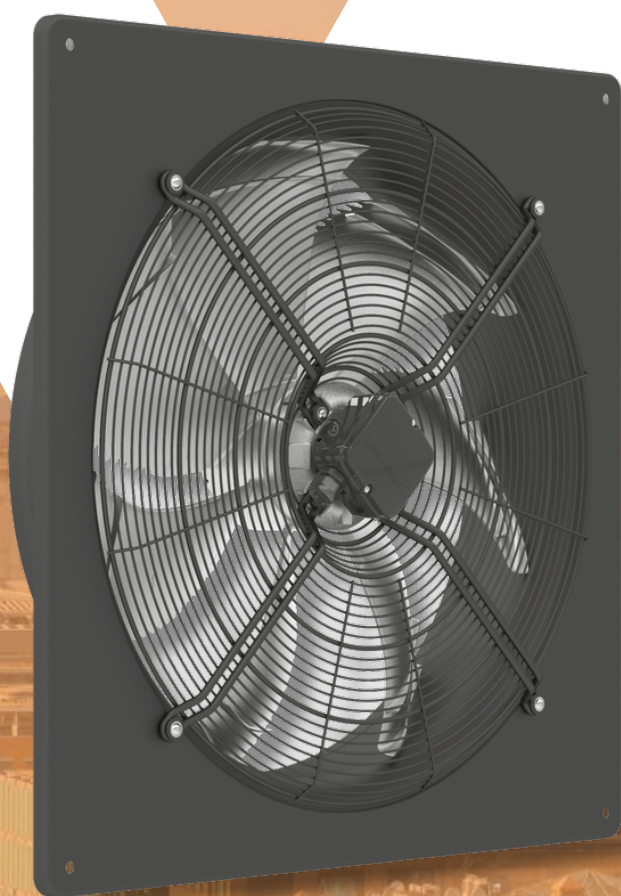


AIRTREND Limited  
Predstavništvo u Beogradu  
Kumanovska 14  
11000 Beograd, Srbija  
Tel: 011 3836886, 3085740  
Faks: 011 3444113  
e-mail: gobrid@eunet.rs web:  
www.airtrend.rs



## **WOODS PLATE FANS** (AC & EC)





# OVERVIEW

## CONTENTS

Overview .....	1
<b>Technical Details</b>	
1 Phase (AC Fans) .....	2
3 Phase (AC Fans) .....	2
1 Phase (EC Fans) .....	3
3 Phase (AC Fans) .....	3
<b>Performance Charts</b>	
1Phase (AC Fans) .....	4-5
3 Phase (AC Fans) .....	6-7
1 Phase (EC Fans) .....	8-9
3 Phase (EC Fans) .....	10-11
<b>Dimensions</b> .....	12-13
<b>Wiring Diagrams</b> .....	14-16
<b>Accessories</b> .....	17-18

### PRODUCT FACTS

- Volume flows up to 6.67 m<sup>3</sup>/s
- Static Pressures up to 450 Pa
- Both 1 Ph and 3 Ph options available
- With AC and EC motors
- High efficiency impellers
- Minimum noise levels
- Speed controllable
- ErP 2015 compliant [as per (UE)N 327/2011]
- Supplied fully assembled

### ELECTRICAL SUPPLY

- 220-240V / 50Hz / 1Φ & 380-420V / 50Hz / 3Φ

### TEMPERATURE RANGE

- -25°C to 70°C as standard. Occasional starting between -40°C and -25°C is permissible. Continuous operation below -25°C is possible only with special bearing.

### SIZES

- 250, 315, 355, 400, 450, 500, 560, 630 and 710 mm

### CONSTRUCTION

The fans will be supplied with rectangular wall ring plate and bell mouth made of mild steel with powder coated finish and motor side ring grill.

### MOTOR

All AC motors are totally enclosed airstream rated Class F insulation with thermal contact motor protection class IP44 / IP54. The EC motors are fitted with integrated controller and active temperature management system. Constructed from aluminum or cast iron as standard and suitable for horizontal through to vertical operation.

### IMPELLER

The axial flow plate fan impeller sickle blades are manufactured of High-Performance Composite material (up to size 400mm) and of aluminum (from size 450mm onwards).

### INSTALLATION

The Woods Plate fans with their robust design and strong built are renowned for their quality and ability to work under stressful conditions. These fans are suitable for application in industry, agriculture and building services wherever absolute stability, low noise and high efficiencies are of utmost importance.

### SPEED CONTROLLERS

The fans are available with speed controls and can be controlled using a separate transformer speed control or electronic controllers for the 1 phase and 3 phase AC fans and with a 0-10V potentiometer for the EC fans. The speed controllers should be selected, ordered and supplied separately.

### PRODUCT CODE

12PFX-3-4-5

- 12 - Impeller diameter (initial 2 digits)
- PF - Plate Fan
- X - A/E - AC or EC version
- 3 - Pole speed (e.g. 4, 6)
- 4 - Phase (1 or 3)
- 5 - Frequency (50Hz)

### ACCESSORIES - CONTROLLERS

The range of accessories include backdraft shutters, impeller side guard, etc.



Shutters



(Impeller side guard)

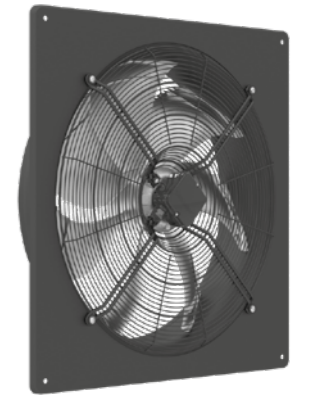
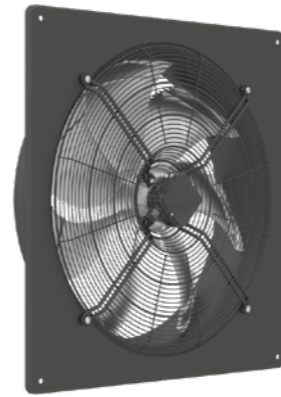


(Transformer Control)



(Potentiometer)





## WOODS Plate Fans (AC)

### Single phase Fans

Model Name	Part Code	Max. Flow	Max. St. Pr.	Input Power	Rated Current	Motor Data	Speed	Inlet Sound Power	Weight
		m³/h	Pa	kW	amp	Volt/Freq.	rpm	dB(A)	kg
25PFA-4-1-5	PA250415	980	80	0.05	0.24	230V / 50Hz	1370	62	3.8
31PFA-4-1-5	PA315415	2450	140	0.12	0.54	230V / 50Hz	1330	67	6.7
35PFA-4-1-5	PA350415	2800	160	0.15	0.65	230V / 50Hz	1390	72	7.6
40PFA-4-1-5	PA400415	4450	160	0.26	1.15	230V / 50Hz	1320	71	8.7
45PFA-4-1-5	PA450415	7300	280	0.60	2.90	230V / 50Hz	1390	74	16.2
50PFA-4-1-5	PA500415	8800	230	0.72	3.20	230V / 50Hz	1240	73	20.1
56PFA-4-1-5	PA560415	12000	210	1.15	5.60	230V / 50Hz	1420	85	34.2
63PFA-4-1-5	PA630415	16700	360	1.85	7.70	230V / 50Hz	1360	86	36.2

### Three phase Fans

Model Name	Part Code	Max. Flow	Max. St. Pr.	Input Power	Rated Current	Motor Data	Speed	Inlet Sound Power	Weight
		m³/h	Pa	kW	amp	Volt/Freq.	rpm	dB(A)	kg
31PFA-4-3-5	PA315435	2300	85	0.12 / 0.09	0.39 / 0.16	400V / 50Hz	1450/ 1340	73	6.8
35PFA-4-3-5	PA350435	3500	160	0.19 / 0.14	0.4 / 0.23	400V / 50Hz	1390/ 1170	73	7.6
40PFA-4-3-5	PA400435	3850	210	0.23 / 0.17	0.46 / 0.27	400V / 50Hz	1360/ 1080	69	8.7
45PFA-4-3-5	PA450435	7100	250	0.54 / 0.36	1.10 / 0.66	400V / 50Hz	1350/ 1020	74	14.6
50PFA-4-3-5	PA500435	9500	290	0.84 / 0.54	1.45 / 0.96	400V / 50Hz	1340/ 940	78	20.1
56PFA-4-3-5	PA560435	11300	300	1.05 / 0.58	2.20 / 1.10	400V / 50Hz	1280/ 910	82	24.2
63PFA-4-3-5	PA630435	19000	290	2.40 / 1.50	4.60 / 2.60	400V / 50Hz	1320/ 1040	82	43.1
71PFA-4-3-5	PA710435	22500	425	2.60 / 1.70	4.80 / 2.90	400V / 50Hz	1330/ 1050	91	36.9

## WOODS Plate Fans (EC)

### Single phase Fans

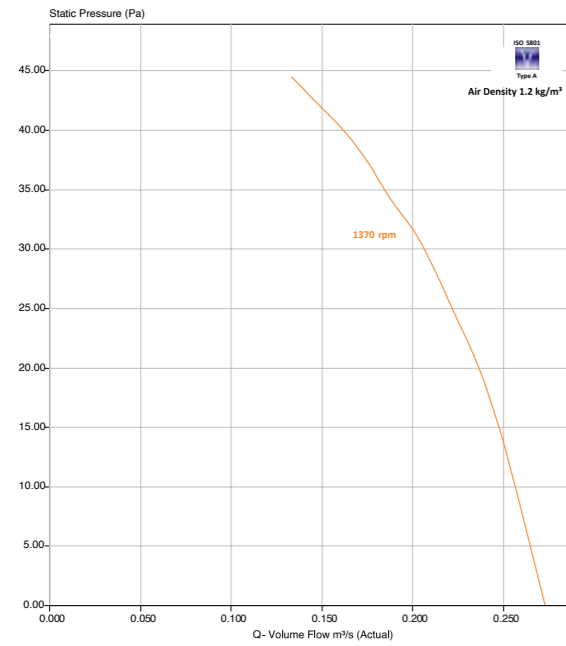
Model Name	Part Code	Max. Flow	Max. St. Pr.	Input Power	Rated Current	Motor Data	Speed	Inlet Sound Power	Weight
		m³/h	Pa	kW	amp	Volt/Freq.	rpm	dB(A)	kg
30PFE-4-1-5	PE300415	3100	550	0.42	2.2-1.55	230V / 50Hz	2750	83	8.7
35PFE-4-1-5	PE350415	4500	200	0.46	2.4-1.7	230V / 50Hz	2000	80	9.5
40PFE-4-1-5	PE400415	4800	425	0.42	2.1-1.5	230V / 50Hz	1800	83	10.6
45PFE-4-1-5	PE450415	7000	350	0.76	3.9-3.3	230V / 50Hz	1650	78	15.6
50PFE-4-1-5	PE500415	8500	325	0.84	4.4-3.2	230V / 50Hz	1440	80	18.7
56PFE-4-1-5	PE560415	10600	450	1.05	5.6-4.0	230V / 50Hz	1350	76	21.0
63PFE-4-1-5	PE630415	12000	270	0.85	4.3-3.1	230V / 50Hz	1050	73	25.6
71PFE-4-1-5	PE710415	13500	200	0.66	3.4-2.4	230V / 50Hz	890	72	26.1

### Three phase Fans

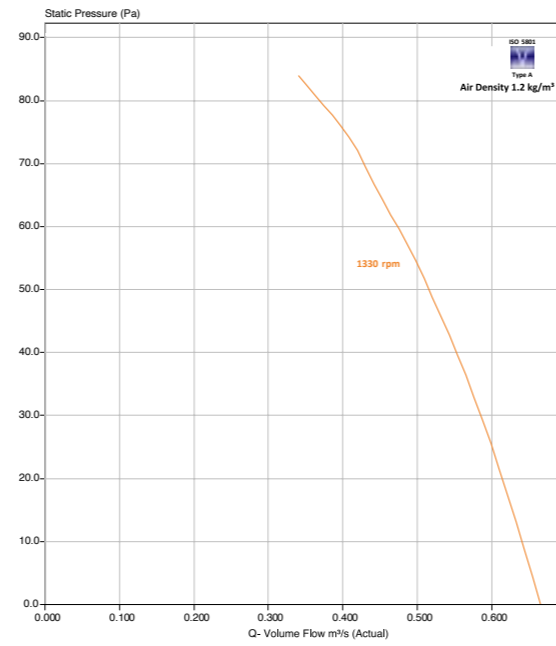
Model Name	Part Code	Max. Flow	Max. St. Pr.	Input Power	Rated Current	Motor Data	Speed	Inlet Sound Power	Weight
		m³/h	Pa	kW	amp	Volt/Freq.	rpm	dB(A)	kg
45PFE-4-3-5	PE450435	7000	350	0.74	1.35-1.10	400V / 50Hz	1650	78	15.6
50PFE-4-3-5	PE500435	9300	350	1.00	1.70-1.35	400V / 50Hz	1550	80	18.7
56PFE-4-3-5	PE560435	11800	450	1.25	2.10-1.65	400V / 50Hz	1450	78	21.0
63PFE-4-3-5	PE630435	17000	380	1.85	3.10-2.50	400V / 50Hz	1270	82	39.3
71PFE-4-3-5	PE710435	24000	450	3.50	5.40-4.30	400V / 50Hz	1400	88	44.7

# Performance Charts

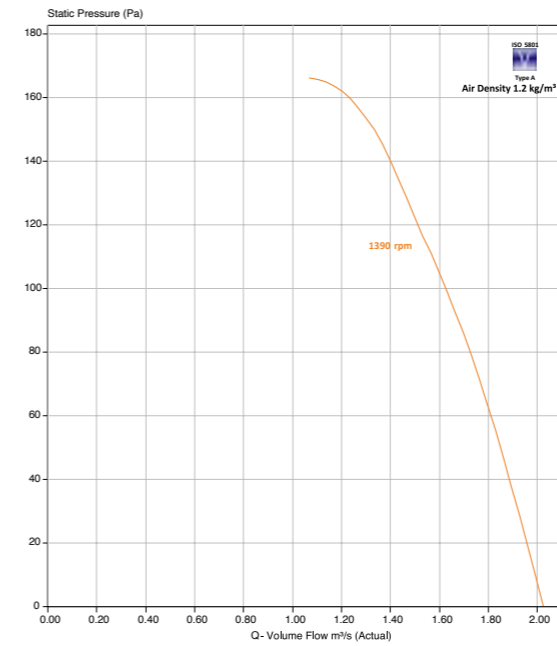
25PFA-4-1



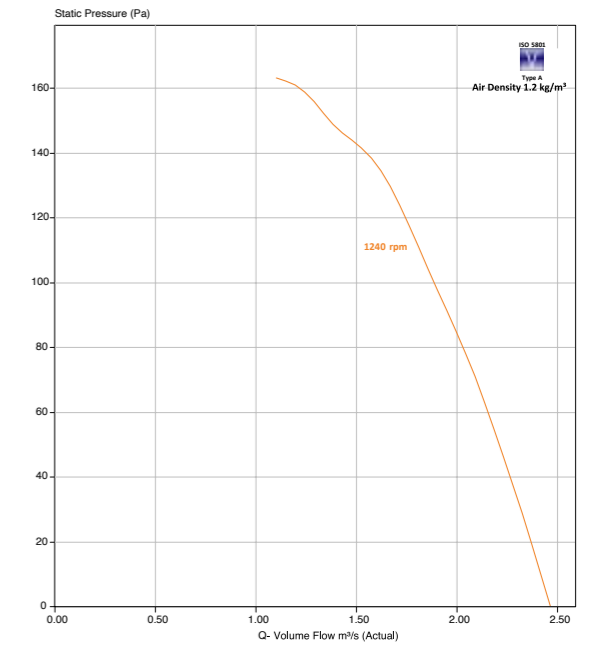
31PFA-4-1



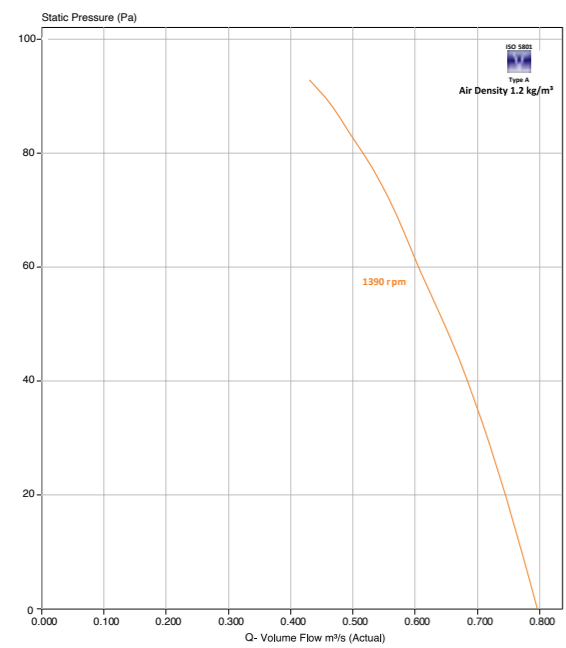
45PFA-4-1



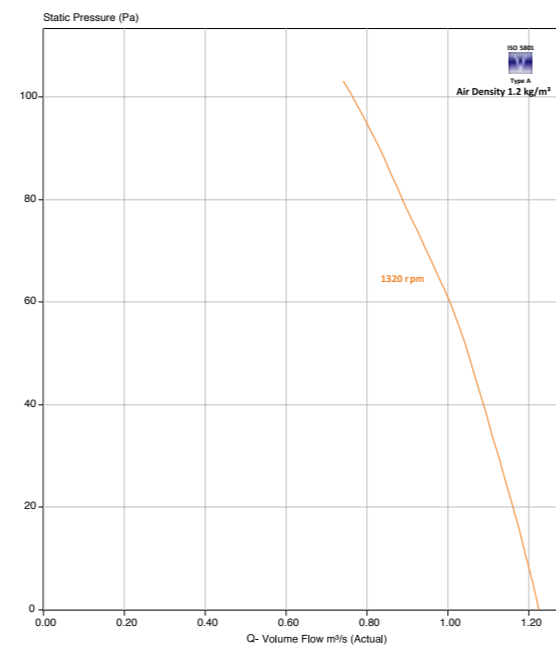
50PFA-4-1



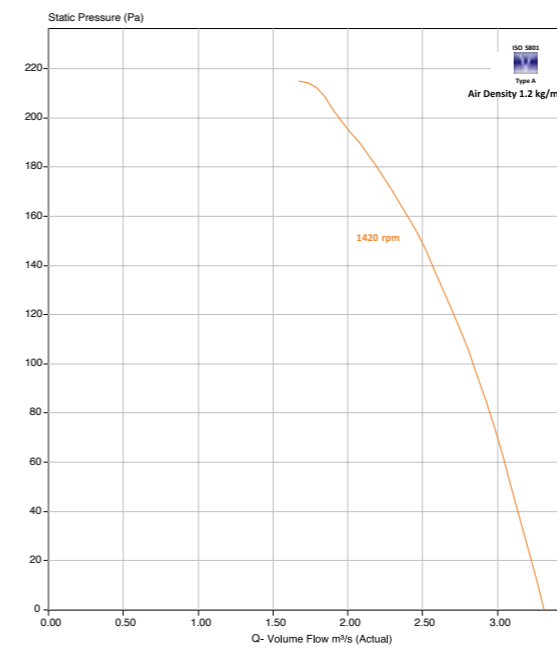
35PFA-4-1



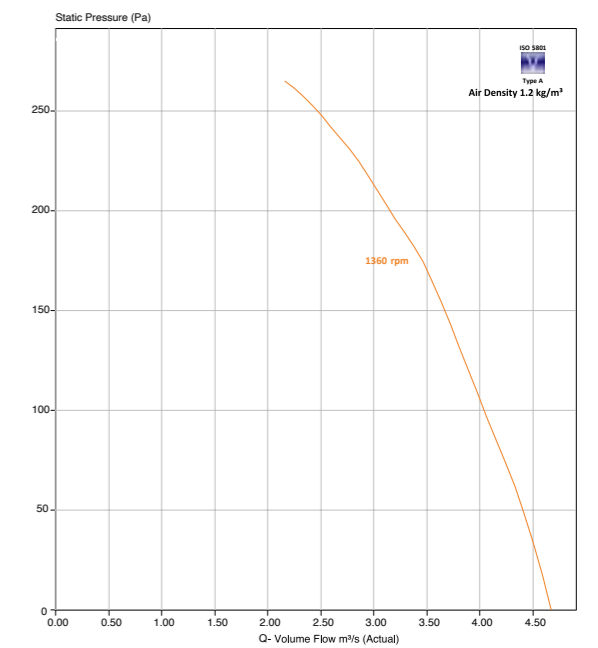
40PFA-4-1



56PFA-4-1

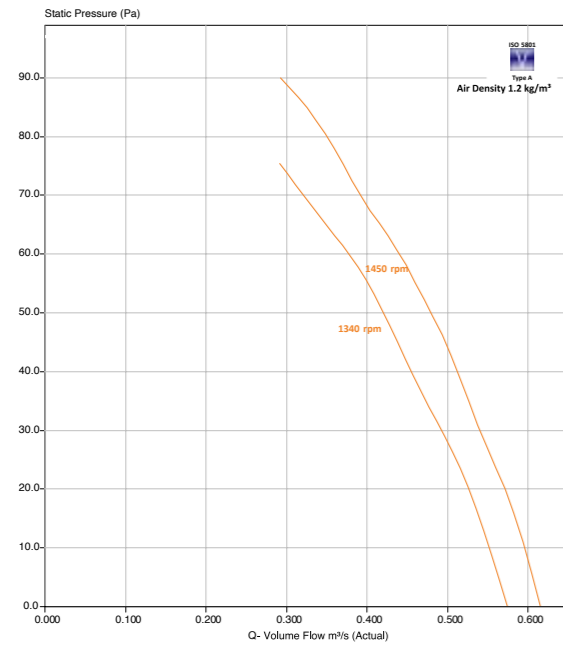


63PFA-4-1

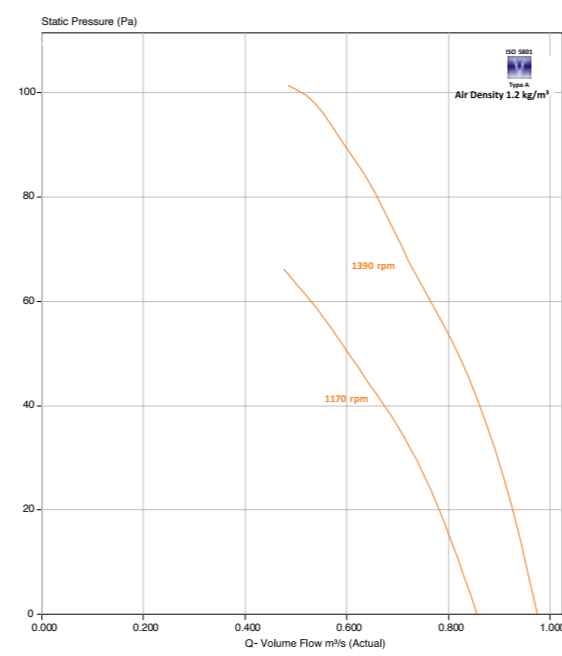


# Performance Charts

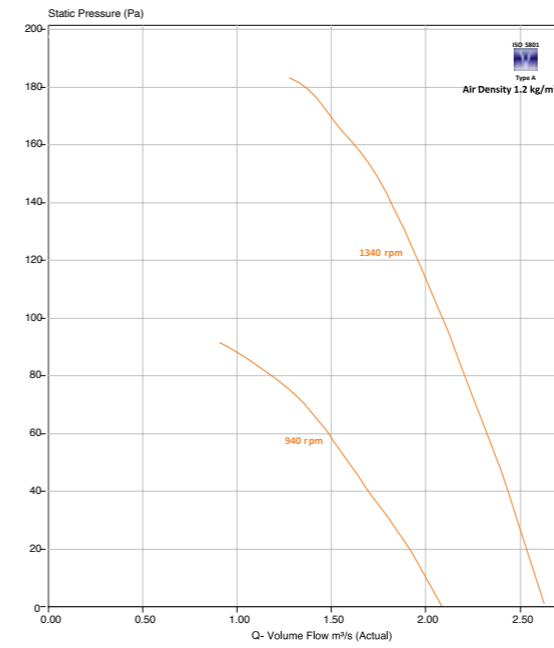
31PFA-4-3



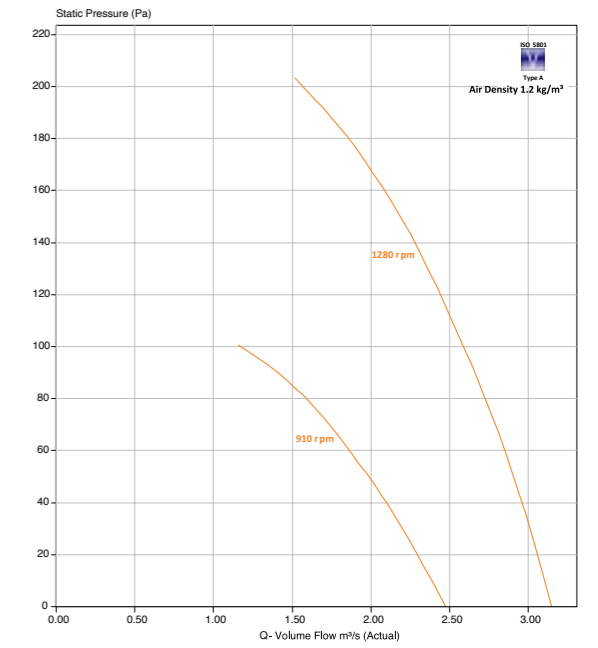
35PFA-4-3



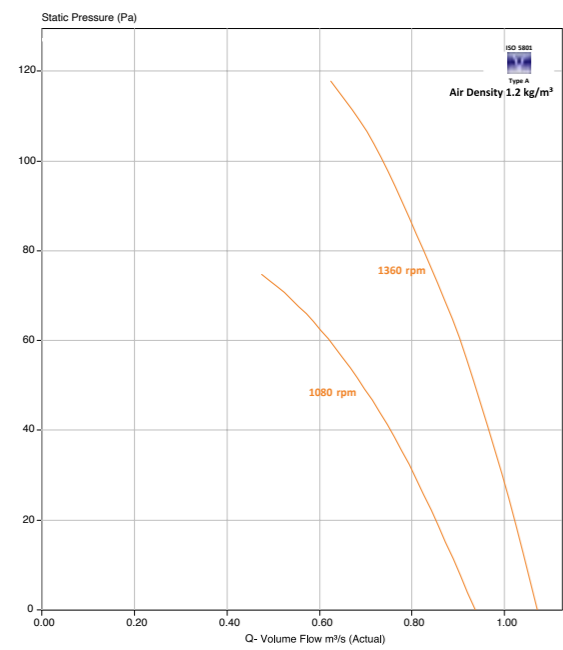
50PFA-4-3



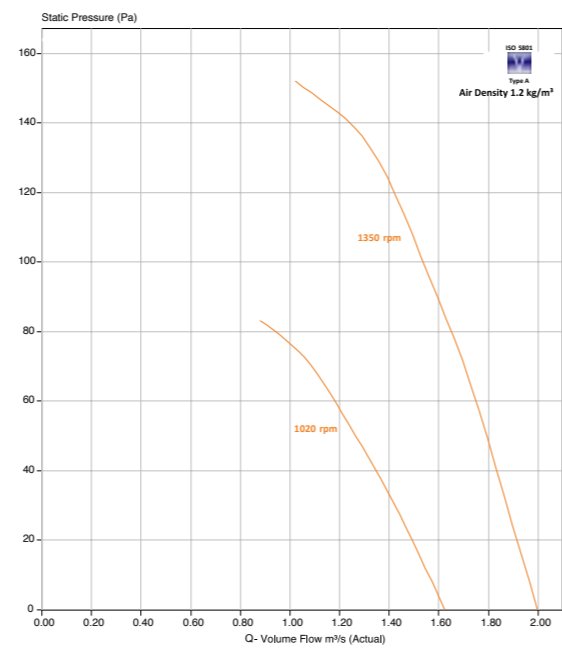
56PFA-4-3



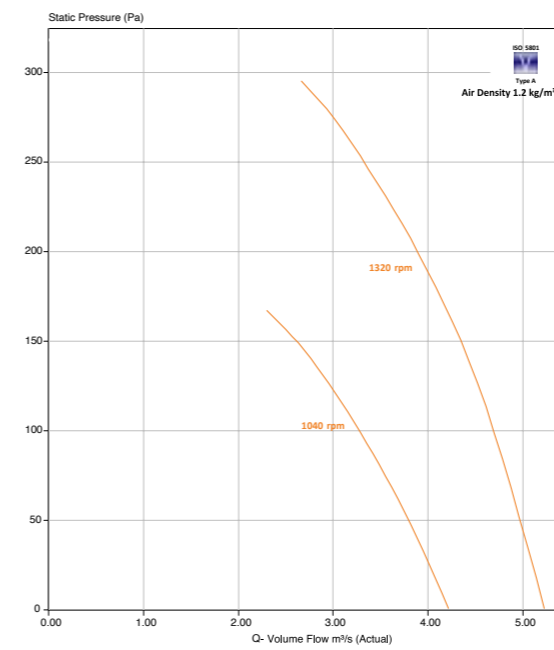
40PFA-4-3



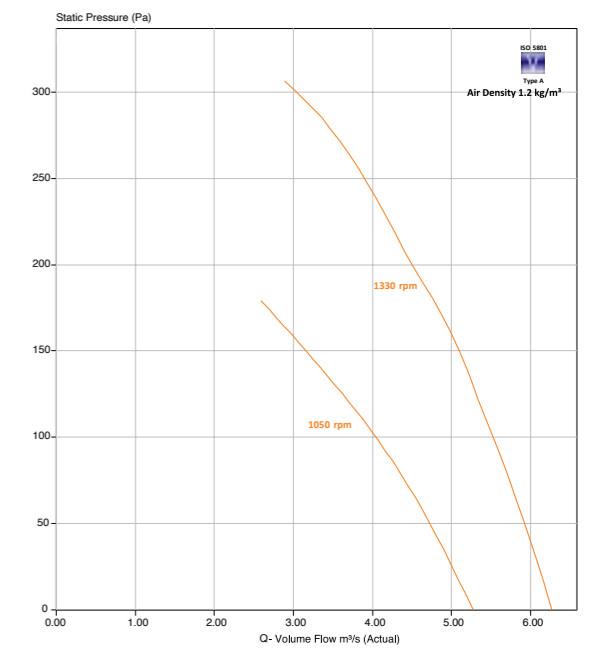
45PFA-4-3



63PFA-4-3

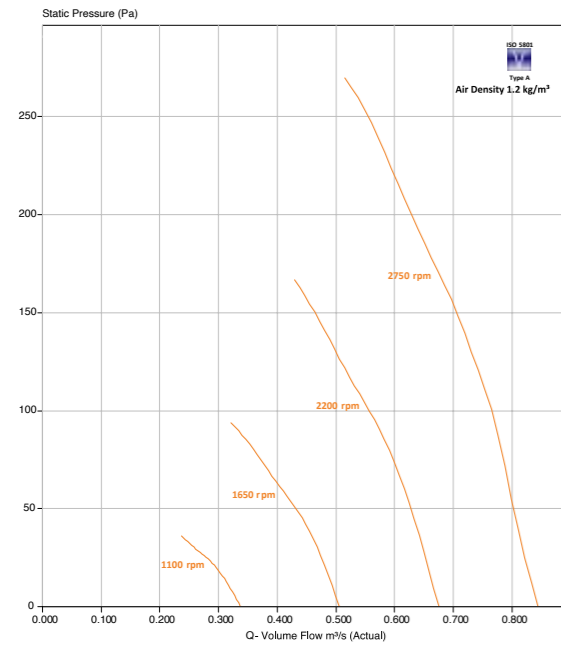


71PFA-4-3

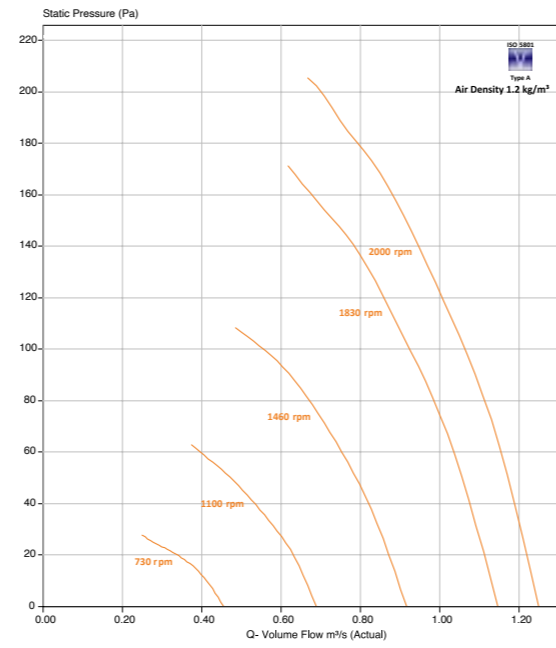


# Performance Charts

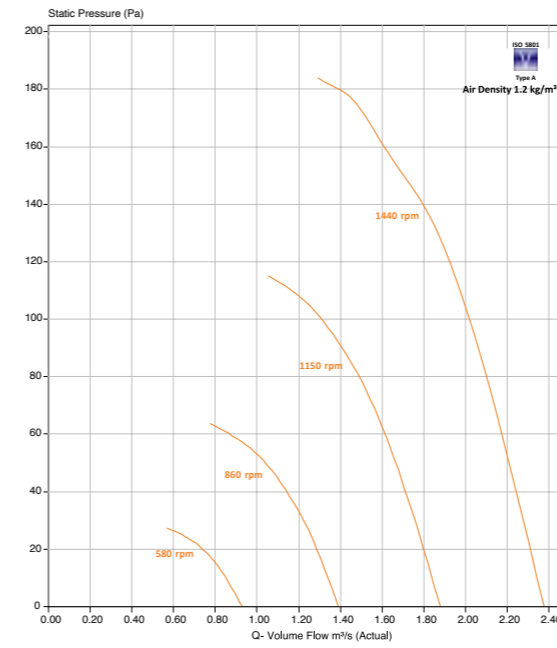
**30PFE-4-1**



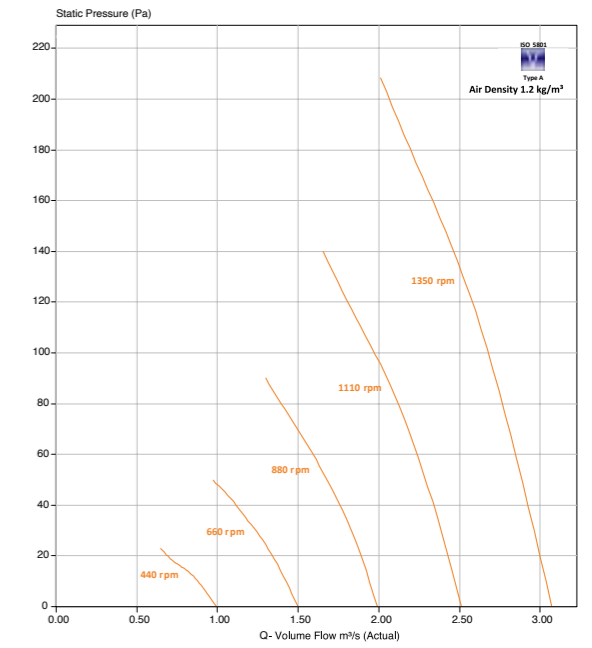
**35PFE-4-1**



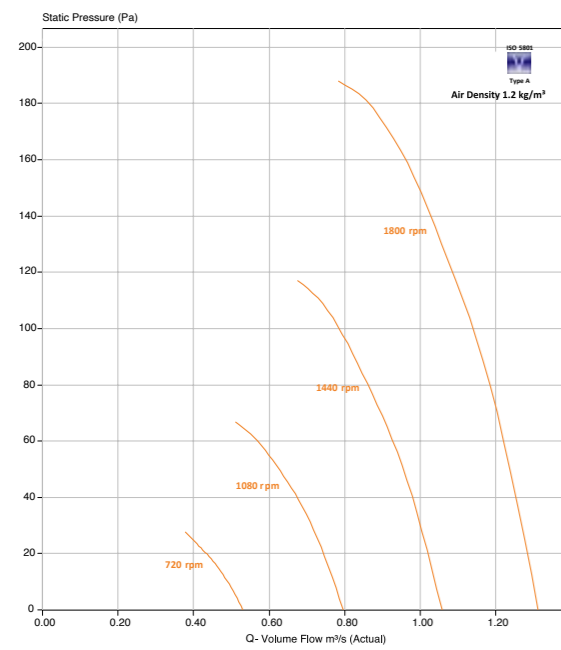
**50PFE-4-1**



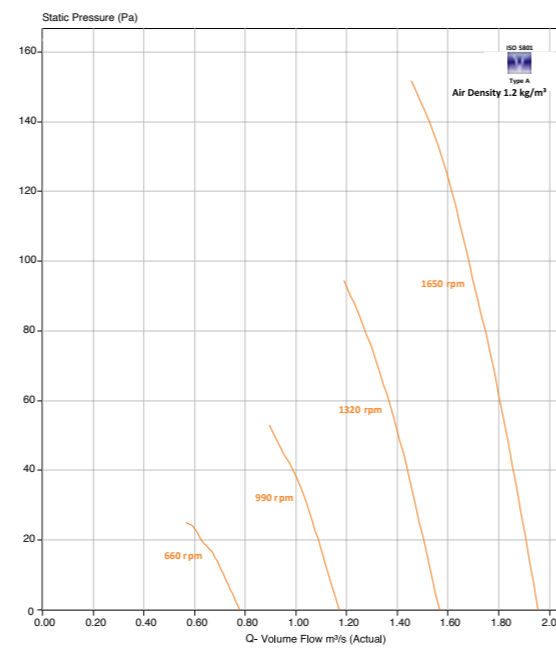
**56PFE-4-1**



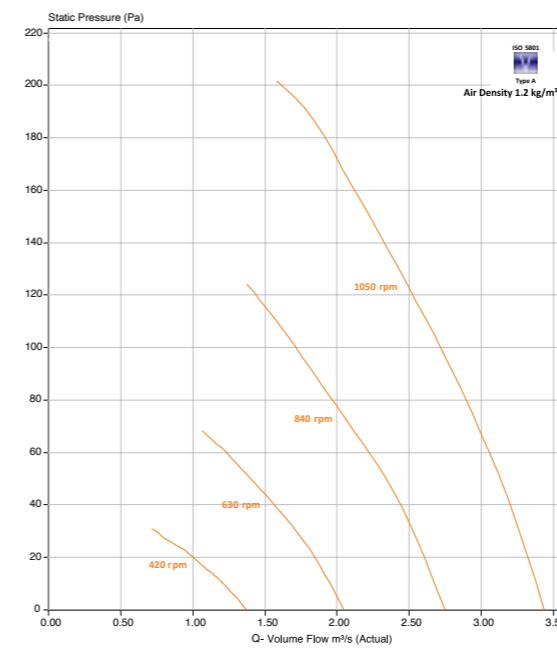
**40PFE-4-1**



**45PFE-4-1**

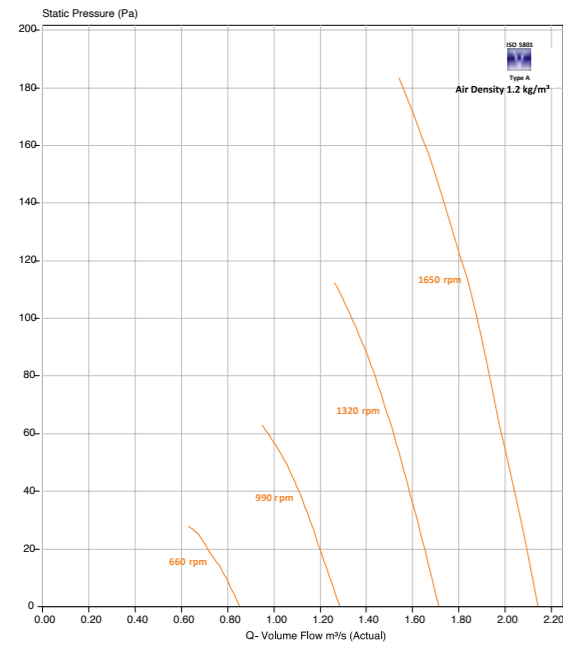


**71PFE-4-1**

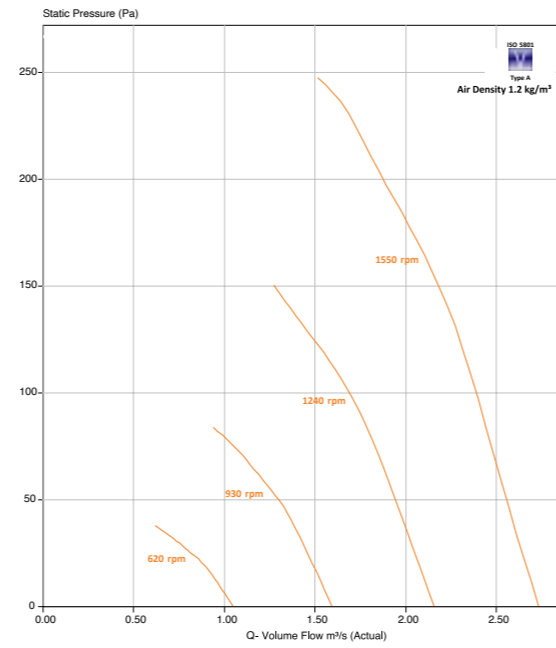


# Performance Charts

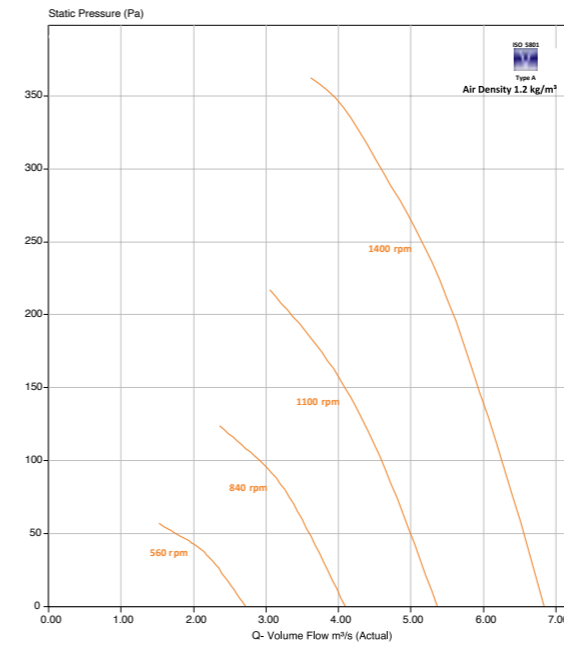
**45PFE-4-3**



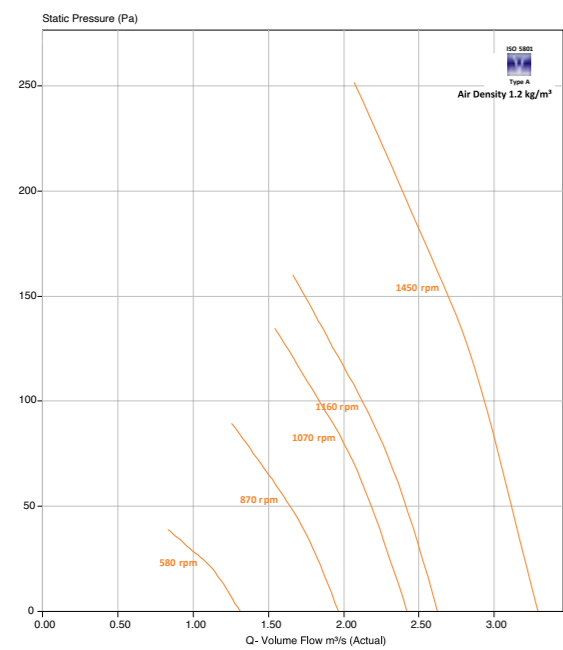
**50PFE-4-3**



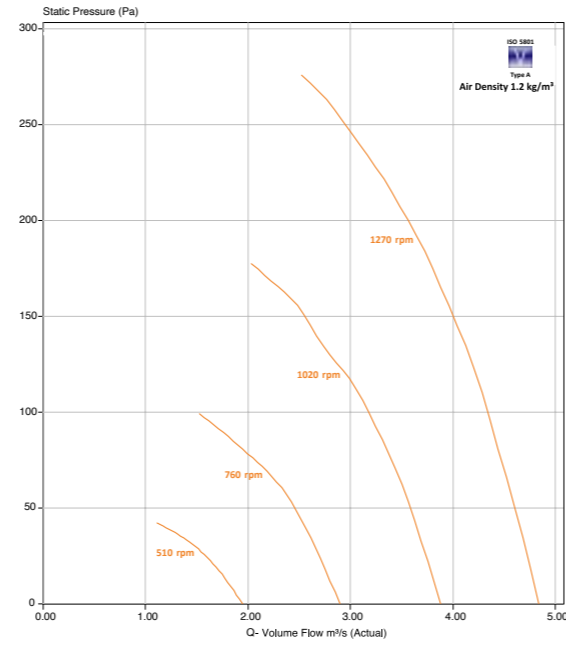
**71PFE-4-3**

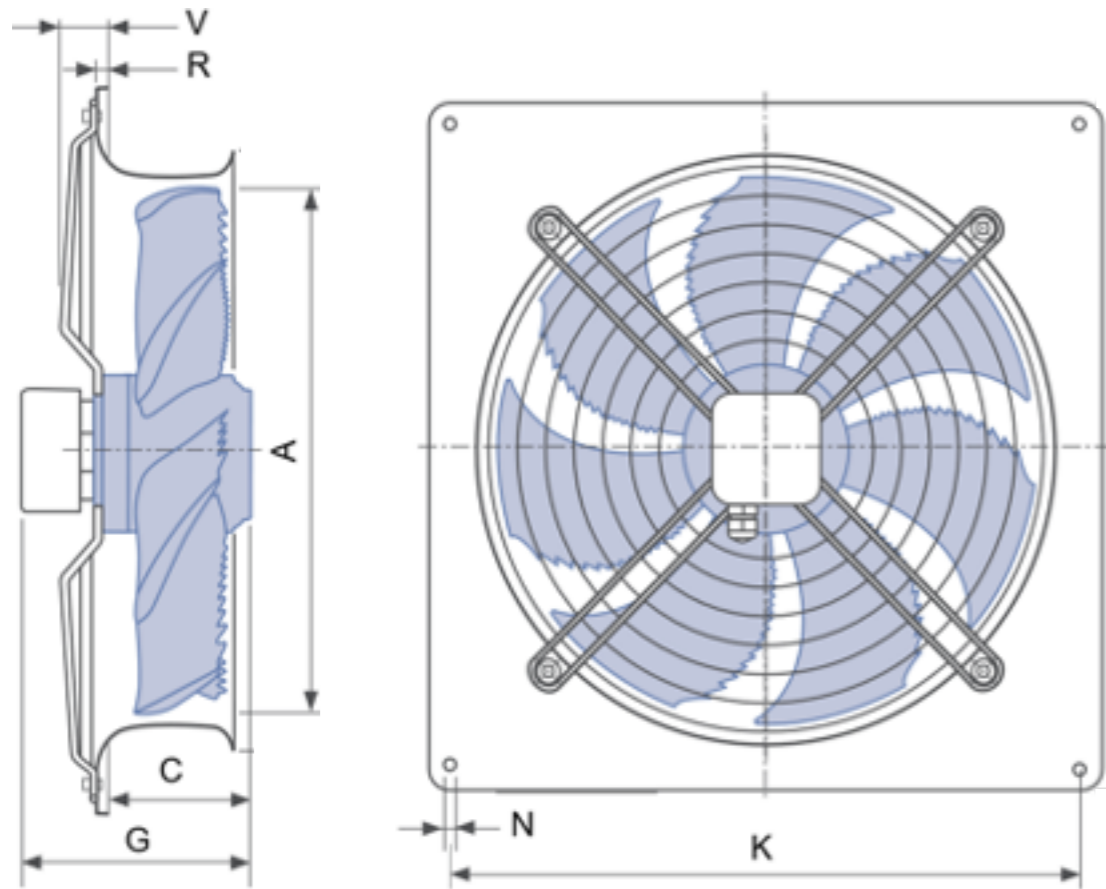


**56PFE-4-3**



**63PFE-4-3**





AC FANS

Model Name	K	B1	G	C	A	R	V	N
25PFA-4-1-5	320	370	68.4	66.4	259.5	6	30	7
31PFA-4-1-5	380	430	173	84	349	11	47.5	9
35PFA-4-1-5	435	485	181.8	96.5	388	12	22	9
40PFA-4-1-5	490	540	181.5	120.5	412	12	53.9	9
45PFA-4-1-5	535	575	226	143.5	463	14	46.8	11
50PFA-4-1-5	615	655	226.3	157.5	517	16	46	11
56PFA-4-1-5	675	725	292.3	194	568	16	74.7	11
63PFA-4-1-5	750	805	272.3	202	643	20	49.6	11
31PFA-4-3-5	380	430	181.5	98.5	319.5	11	83	9
35PFA-4-3-5	435	485	181.8	96.5	388	12	85.3	9
40PFA-4-3-5	490	540	184.5	86	412	12	53.9	9
45PFA-4-3-5	535	575	226	143.5	463	14	82.5	11
50PFA-4-3-5	615	655	226.3	141.5	517	16	84.8	11
56PFA-4-3-5	675	725	245	162.5	568	16	82.5	11
63PFA-4-3-5	750	805	270.8	159.5	643	20	108	11
71PFA-4-3-5	810	850	272.3	228	720	20	70	14.5

EC FANS

Model Name	K	B1	G	C	A	R	V	N
30PFE-4-1-5	380	430	146.8	73.9	326	11	72.9	9
35PFE-4-1-5	435	485	147	82	367	12	41	9
40PFE-4-1-5	490	540	152.6	88	412	12	76.6	9
45PFE-4-1-5	535	575	198	120	463	14	72	11
50PFE-4-1-5	615	655	183	122	517	16	61	11
56PFE-4-1-5	675	725	195	131	568	16	55	11
63PFE-4-1-5	750	805	196	130	643	20	66	11
71PFE-4-1-5	810	850	225	162	720	20	63	14.5
45PFE-4-3-5	535	575	198	120	463	14	72	11
50PFE-4-3-5	615	655	183	122	517	16	61	11
56PFE-4-3-5	675	725	195	131	568	16	55	11
63PFE-4-3-5	750	805	237	145	643	20	92	11
71PFE-4-3-5	810	850	268	198	720	20	70	14.5



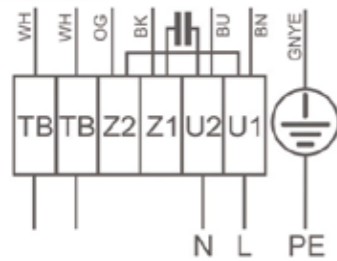
AC 1 PHASE

SIZE 250mm - 310mm

1~ motor with capacitor and thermostatic switch (if built in).

- BN brown
- BU blue
- BK black
- OG Orange
- WH white
- GNYE green-yellow

Counter Clockwise rotation

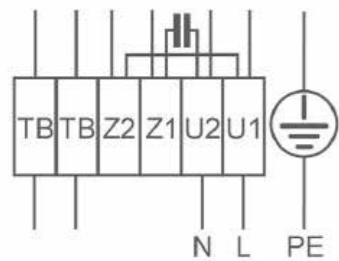


SIZE 350mm - 630mm

1~ motor with capacitor and thermostatic switch (if built in).

- BN brown
- BU blue
- BK black
- OG Orange
- WH white
- GNYE green-yellow

Counter Clockwise rotation



AC 3 PHASE

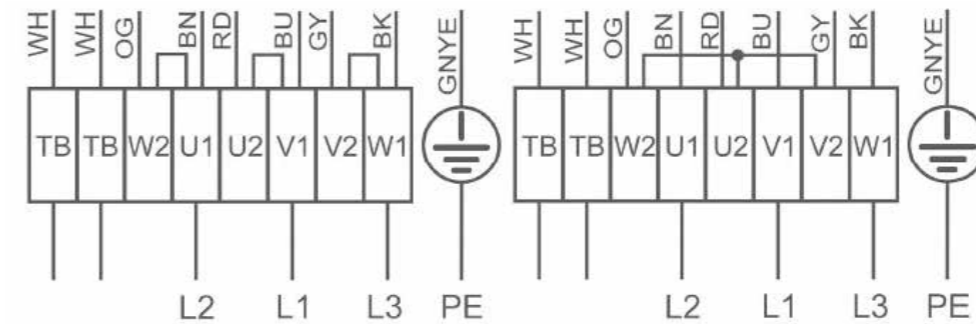
SIZE 310mm - 710mm

3~ motor, 2 speeds ( $\Delta$ /y switch over) with thermostatic switch (if built in). Without bridge when using speed change-over switch.

- BN brown
- BU blue
- BK black
- RD red
- GY grey
- OG Orange
- WH white
- GNYE green-yellow

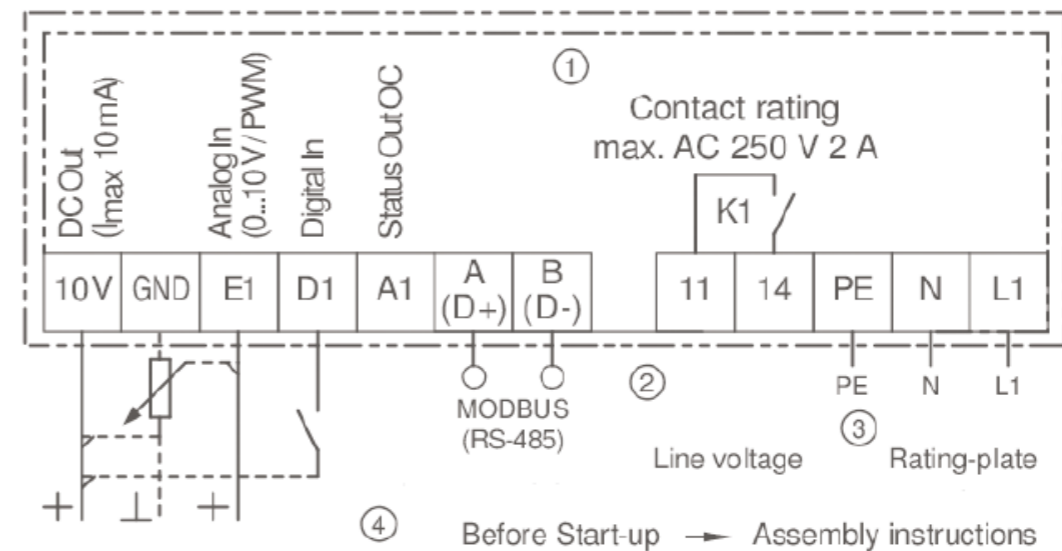
High speed/ $\Delta$ -connection

Low speed/Y-connection



EC 1 PHASE

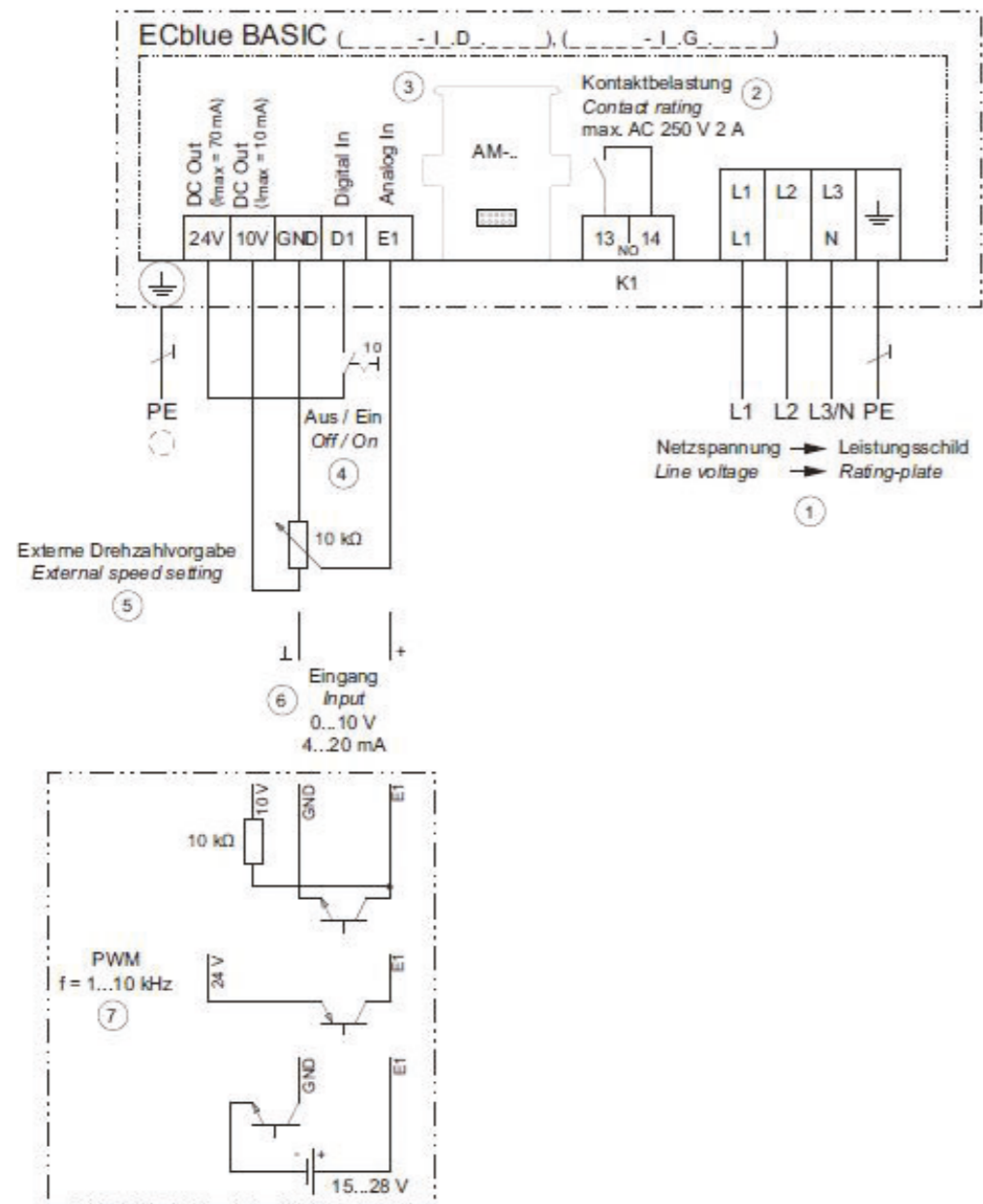
SIZE 300mm - 710mm



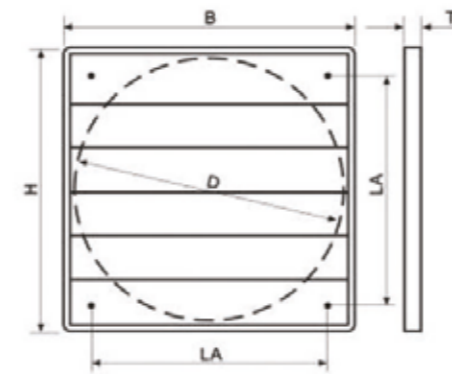
EC 3 PHASE

SIZE 450mm - 710mm

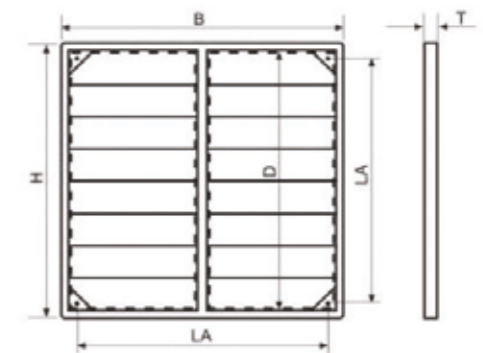
ECblue BASIC



PLAIN FAN SHUTTERS



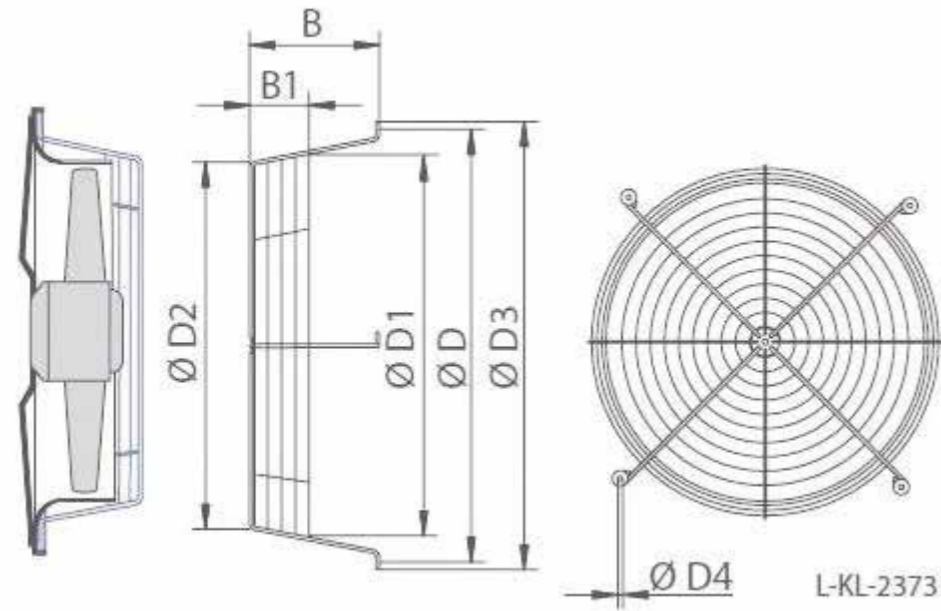
Shutter size 30 - 50



Shutter size 55 - 75

Size	Part Number	D	H / B	LA	T
25	SK060002	258	294	232	26
30	SK060011	310	346	276	26
35	SK060012	360	397	310	26
40	SK060013	422	462	366	26
45	SK060014	462	501	395	31
50	SK060015	505	548	443	31
55	SK060016	563	603	520	28
65	SK060017	655	696	628	31
71	SK060018	720	760	692	40
75	SK060035	750	790	722	40

## IMPELLER SIDE GUARD GRILLE



Size	Part Number	B	B1	D	D1	D2	D2	D4
350	PG286215	154	95	422	380	387	444	7
400	PG287758	145	64	500	431	424	522	7
450	PG286217	187	131	560	487	455	582	7
500	PG286218	187	83	615	539	522	637	7
560	PG286202	223	120	658	597	569	680	7
630	PG286219	231	127	720	682	677	724	7
710	PG286201	295	152	835	743	701	857	9.5

All dimensions in mm.

AIRTREND Ltd. - KOVENT D.O.O.  
 Kumanovska 14  
 11000 Beograd  
 Tel. 011 383 68 86, 308 57 40  
 Faks 011 344 41 13  
 E-mail: gobrid@eunet.rs, office@kovent.rs  
 www.airtrend.rs, www.kovent.rs