Ventilatoren Lti

Chemical Resistance Fan

Corrosion resistant poplypropylene fans

Durability

Single piece high density polypropylene molded casing, more durable.

Corrosion resistance

All parts made of UV treated chemical resistant polypropylene (PP).

Ease of installation

Compact design & low carrying weight, round standard inlet/outlet, no need for transitions.

Cost effectiveness

Lasts much longer than metal fans with coatings.

Airflow monitors & controllers

- **EN 14175 & RoHS compliant**
- **Accurate**
- **Easy to use and install**
- **Short response time**

Summary

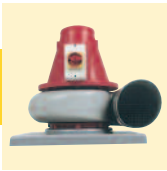
SEAT Series

SEAT 15 | SEAT 20 | SEAT 25 | SEAT 30 | SEAT 35

Page : 8 & 9 | 10 & 11 | 12 & 13 | 14 & 15 | 16 & 17

SEAT Kit roof unit

Kit roof unit



Page : 18 & 19

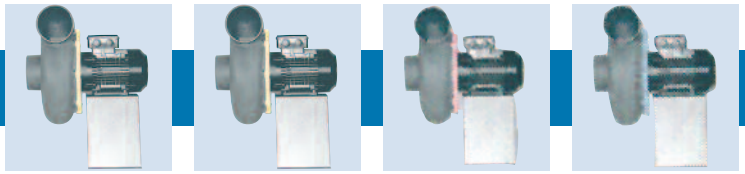
JET Series

JET 20 | JET 25 | JET 30

Page : 22 & 23 | 24 & 25 | 26 & 27

STORM Series

STORM 10 | STORM 12 | STORM 14 | STORM 16



Page : 30 & 31 | 32 & 33 | 34 & 35 | 36 & 37

Accessories

Page : 38 & 39

Controllers and Inverters

Page : 40 & 41

History

1968 : Creation of SEAT by Mr. Bernard Chapel, father of current CEO. The family owned business is located in Montfermeil, a close suburb of Paris. The company specialises in the field of plastic boiler making including plastic fans, fume hoods etc.

1986 : SEAT starts venturing out of France and makes its export debut on the Belgian market.

1988 : Launch of the new and existing range of PP centrifugal called "SEAT Series".
The unique and colourful design is quickly a hit on domestic and foreign markets.

1995 : SEAT adds the "JET Series" inline fans to its range of PP fans.

1996 : Creation of "Seplast", subsidiary of SEAT in the Czech Republic.

1997 : The "SEAT Control" airflow monitor for fume cupboard is born. This equipment quickly becomes the monitor and control of choice of French laboratory furniture makers and installers.
Creation of "Thermoseat", subsiduary of SEAT in Hungary

1998 : Introduction of "STORM" Series fans for application requiring higher pressure.

1999 : Creation of "Plastec" the US subsidiary of SEAT covering the Americas.
Originally located in the Philadelphia area, it has since then been moved to Bradenton, Florida.

2005 : SEAT is relocating offices and factory in Verniolle, located an hour South of Toulouse nearby the Pyrenees Mountains. The brand new factory and offices are built from the ground up to accomodate fast growth on domestic and international markets.

About us

Our expertise

With over 35 years of experience in the field of laboratory fume extraction systems, SEAT Ventilation SA has become one of the few leading manufacturers of corrosion-resistant polypropylene fans.

Our products

- Corrosion-resistant polypropylene **fans and blowers**.
- **Airflow monitors** and controls for laboratory fume cupboards.

Areas of application

- Laboratories
- Chimical industry
- Water treatment plants
- Hospitals
- Electroplating
- College and universities

Our values

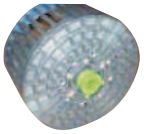
- **Competence:** you can count on our team of ventilation specialists to help you select the most adapted equipment for your needs and budget.
- **Customer care:** we are committed to respond to your enquiries within 48 hours thanks to our dedicated multilingual staff. Orders, unless exceptionally large ones, are usually processed within a week.
- **Competitiveness:** we invest a very substantial amount of our annual revenues into new tooling to offer you the highest quality at the most competitive price.
- **Innovation:** our products are well known for their unique design and features. We strive to improve our existing range as well as putting new equipment on the market that truly fits the global market needs.

SEAT
Series
Specifications

Housings: PP

Single block strong high density UV treated and recyclable polypropylene (PPH) with no welded joint. Reversible and rotable to any the 8 standard discharge positions by 45° increments. All fan mounting hardware in stainless steel.

Wheels: PP



Forward curved centrifugal type impeller made, of injection molded PPH. Fan wheel supplied with hub cap constructed of PPH. Wheels electronically and dynamically balanced to ISO 1940.

Motors

Direct drive, asynchronous, single or three phase, IP55. Single speed: three phase 230/400 V-50/60Hz, single phase 230V-50Hz. Explosion proof motors available on request. Motor is outside the airstream. Three phase motors speed adjustable by variable frequency inverter drive.

Motor Support

Several options: no stand, metal stand constructed of epoxy coated sheet metal[1], polypropylene motor pedestal[2] or roof unit kit[3].

ATEX

SEAT Series Fans are also available in ATEX Zone II, known outside Europe as explosion proof, category 3 G execution in accordance with ATEX directive 94/9/CE. ATEX declaration of conformity available on our web site www.seat-ventilation.com.

Temperature resistance

PPH casing and wheel recommended up to 80°C.

Performance

Fan performance based on tests conducted in accordance with AMCA 210-85 and ISO 5801.

Warranty

SEAT VENTILATION warrants its equipment to be free from defects in workmanship and material under normal use and service for one year after shipment. Warranty is void if damage results from improper wiring or installation.

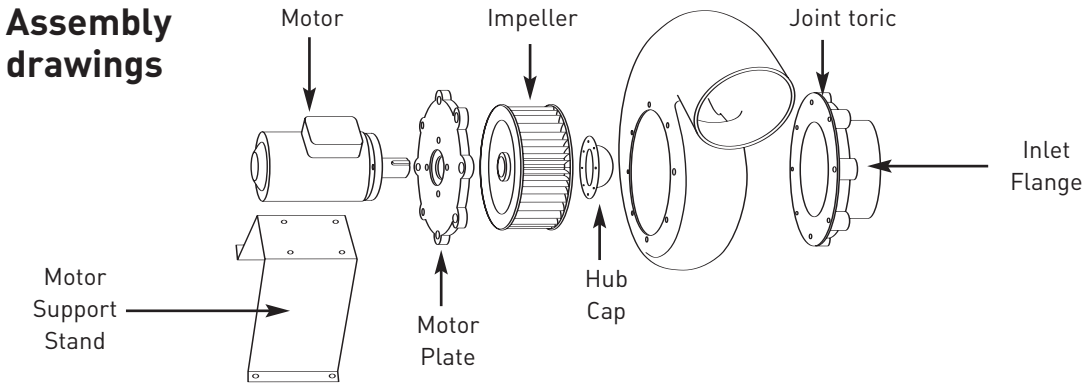
Electrical data and weight*

	RPM (T/min)	(kW)	(V)	AMP draw (A)	Weight (Kgs)
Single phase					
SEAT 15	1500	0,25	230	2,5	8,00
	3000	0,37	230	3,1	8,50
SEAT 20	1500	0,25	230	2,5	8,70
	3000	0,75	230	5,4	14,40
SEAT 25	1500	0,37	230	3,1	12,10
SEAT 30	1500	1,50	230	9,7	22,60

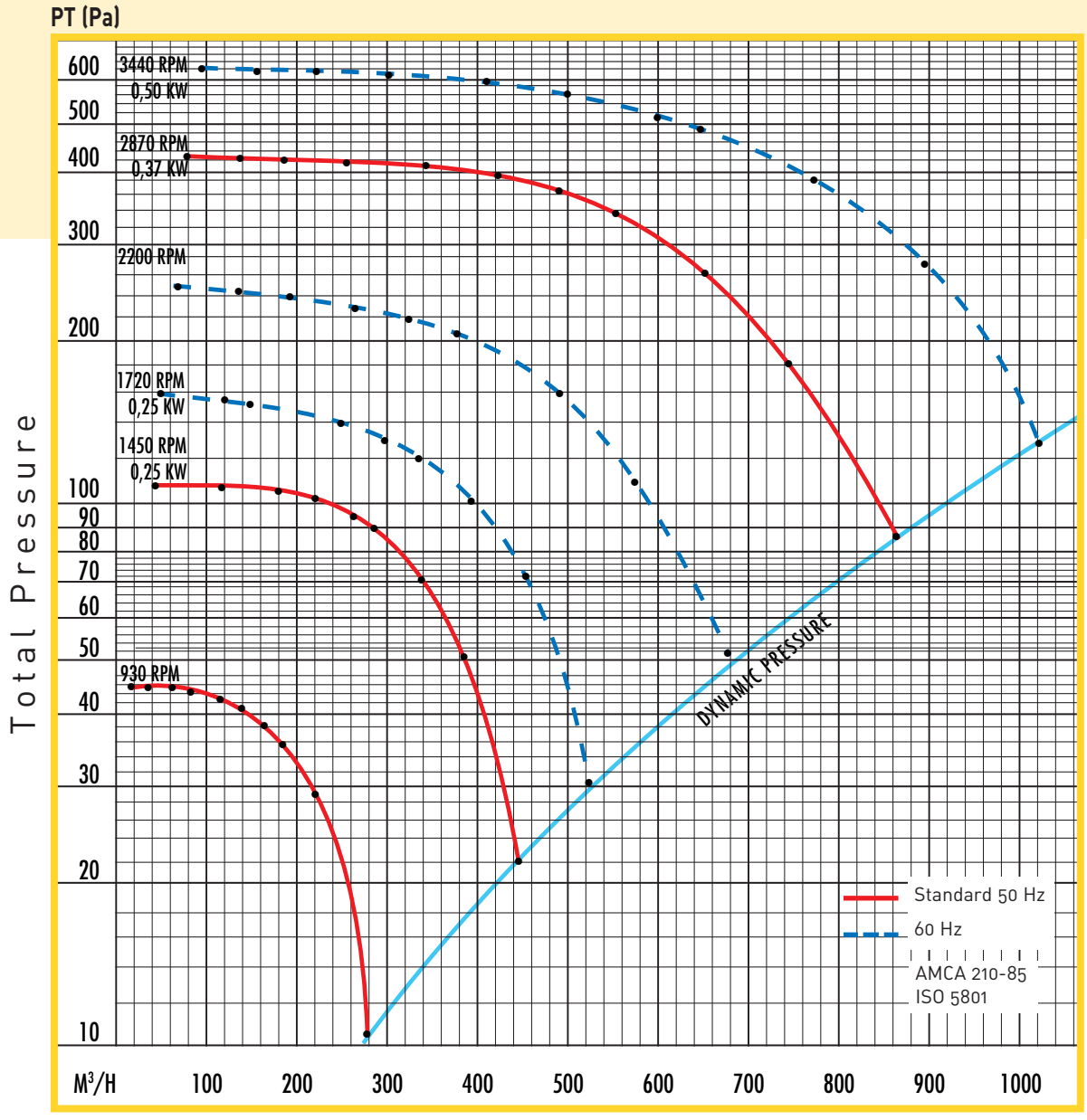
Three Phase					
SEAT 15	1000	0,18	230/400	1,5/0,85	6,00
	1500	0,25	230/400	1,3/0,75	11,30
	3000	0,37	230/400	1,7/1,00	10,20
SEAT 20	1000	0,18	230/400	1,5/0,85	9,70
	1500	0,25	230/400	1,3/0,75	12,00
	3000	0,75	230/400	3,2/1,9	13,20
	3000	1,10	230/400	4,7/2,7	15,70
SEAT 25	1000	0,18	230/400	1,5/0,85	11,10
	1000	0,55	230/400	3/1,8	19,50
	1500	0,37	230/400	2,1/1,2	12,10
	3000	1,50	230/400	5,9/3,4	19,90
	3000	2,20	230/400	8,8/5,1	20,90
	3000	3,00	230/400	10/3,6	25,70
SEAT 30	1500	1,50	230/400	6,4/3,7	27,15
SEAT 35	1000	2,20	230/400	9,6/5,5	46,00
	1500	5,50	230/400	20,8/11,9	50,00
	1500	7,50	230/400	26,7/15,4	68,00

ATEX					
SEAT 15 ATEX	1500	0,18	230/400	0,97/0,56	11,30
	3000	0,37	230/400	1,64/0,95	10,20
SEAT 20 ATEX	1500	0,18	230/400	0,97/0,56	9,70
	3000	0,75	230/400	3,3/1,9	13,20
SEAT 25 ATEX	1500	0,37	230/400	1,7/1,1	12,10
	3000	2,20	230/400	8/4,6	36,00
SEAT 30 ATEX	1500	1,10	230/400	4,4/2,55	27,15
SEAT 35 ATEX	1000	2,20	230/400	10/5,7	46,00
	1500	5,50	230/400	19,2/11	50,00

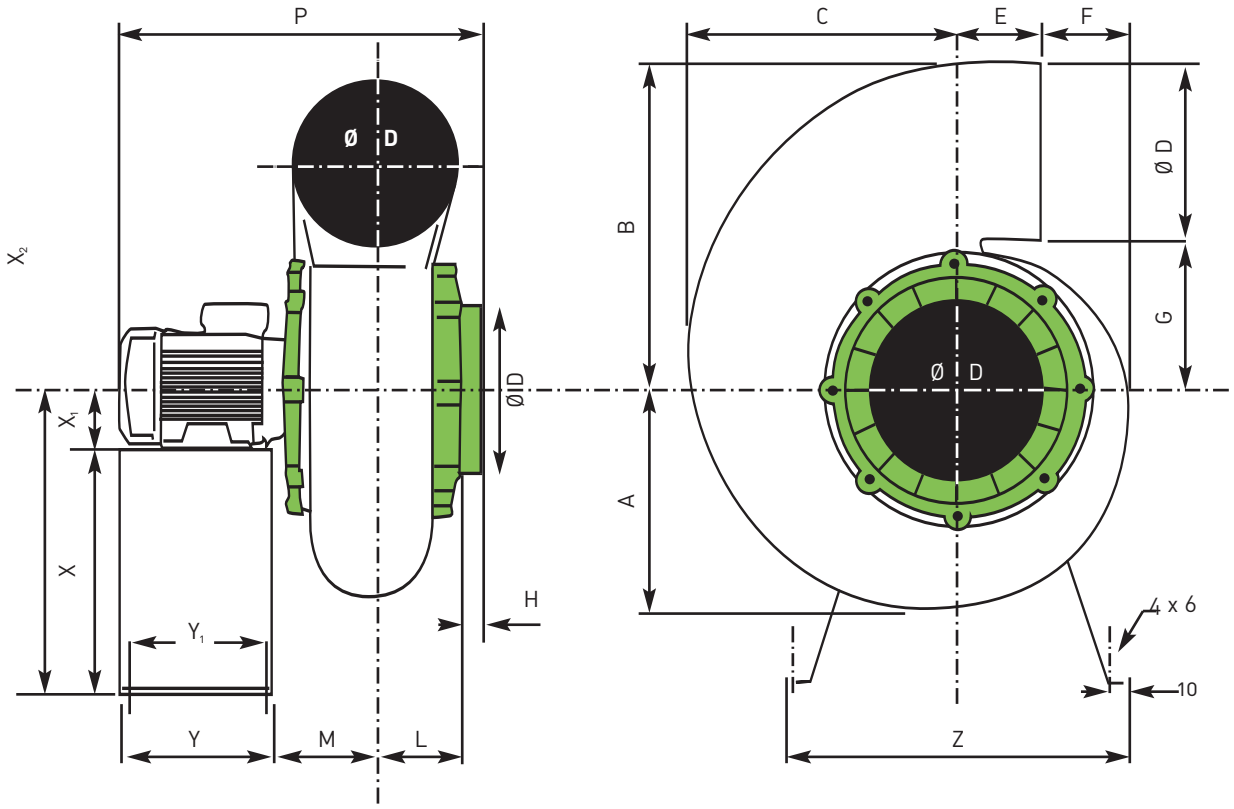
Assembly drawings



SEAT 15



Sound Level										
Type	RPM	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LW Global dB(A)
SEAT 15	1450/4 poles	43	51	54	54	57	50	44	35	44
	2850/2 poles	52	64	67	65	74	64	58	50	59



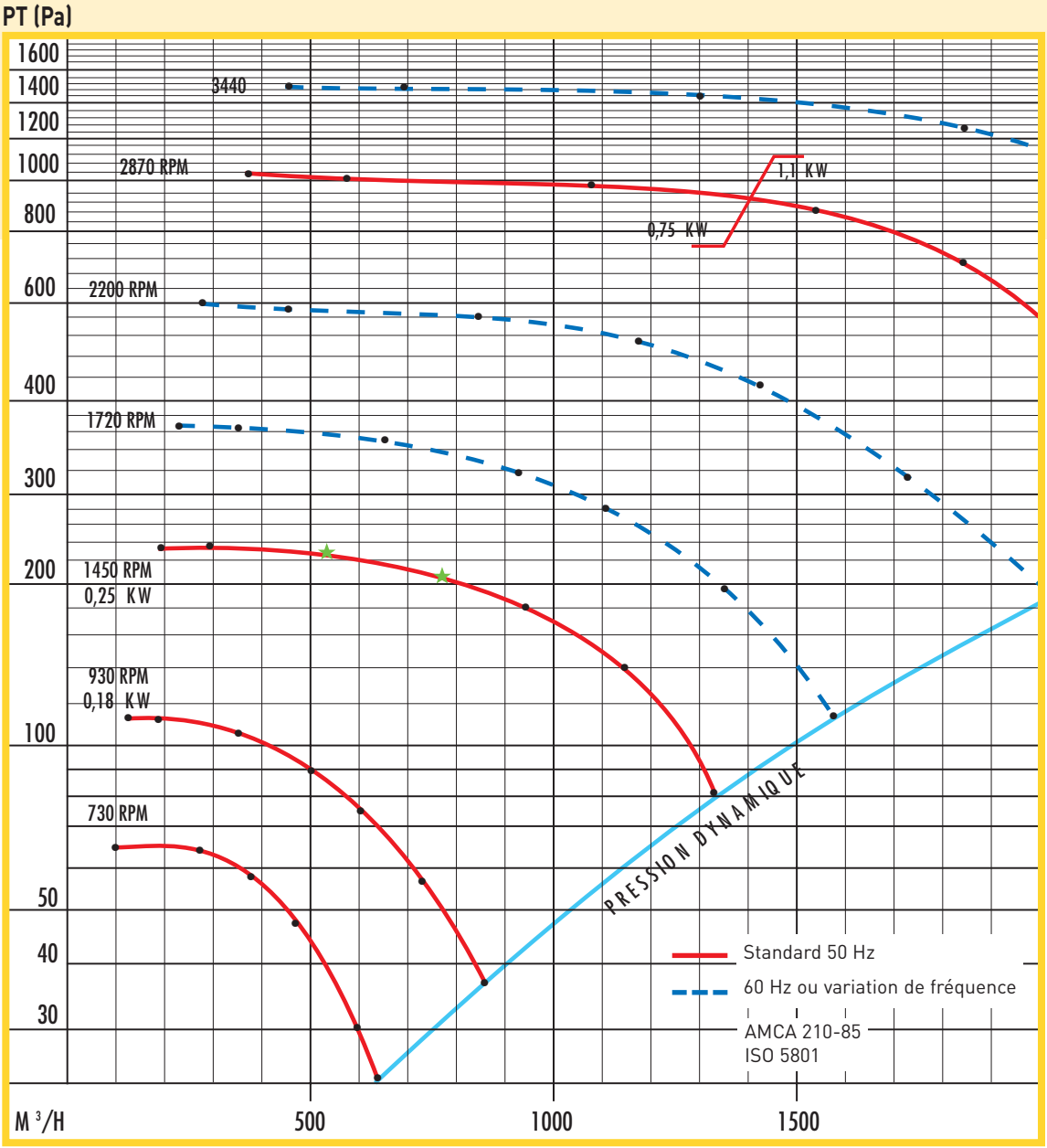
Dimensional data (mm) - Metal stand does not come standard with fan (see accessories pricing). Motor frame size may vary upon type of motor used.																
A	B	C	Ø D	E	F	G	H	L	M	P	Y	Y_1	Z	X	X_1	X_2
170	240	203	125	100	32	115	30	70	80	360	180	160	340	240	71	311

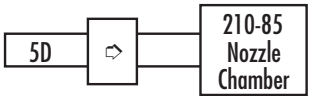
Handings are viewed from inlet side - 45 degree adjustable

LG 0 **LG 45** **LG 90** **LG 135** **LG 180** **LG 225** **LG 270** **LG 135**

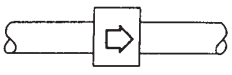
RD 0 **RD 45** **RD 90** **RD 135** **RD 180** **RD 225** **RD 270** **RD 135**

SEAT 20





Type B
LW Mesure Puissance Acoustique

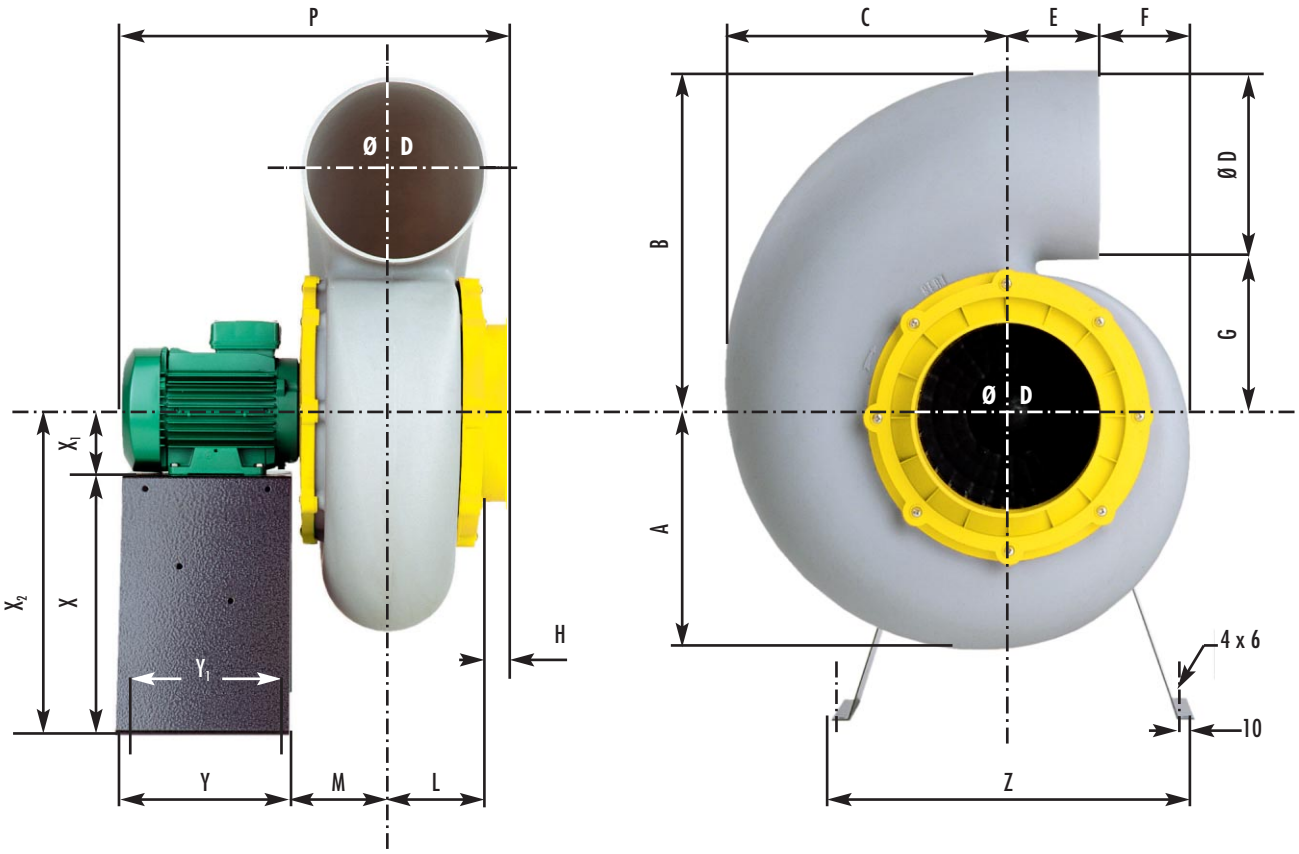


Type D
Bruit d'enveloppe

n (T/min) R.P.M.	dB(A)		dB	
950	53	54	61	62
★ 1450	65	66	70	71
2870	83	84	85	86

n (T/min) R.P.M.	dB (A)	
950	41	42
1435	51	52
2870	66	67

Mesures acoustiques selon ISO 9614/1



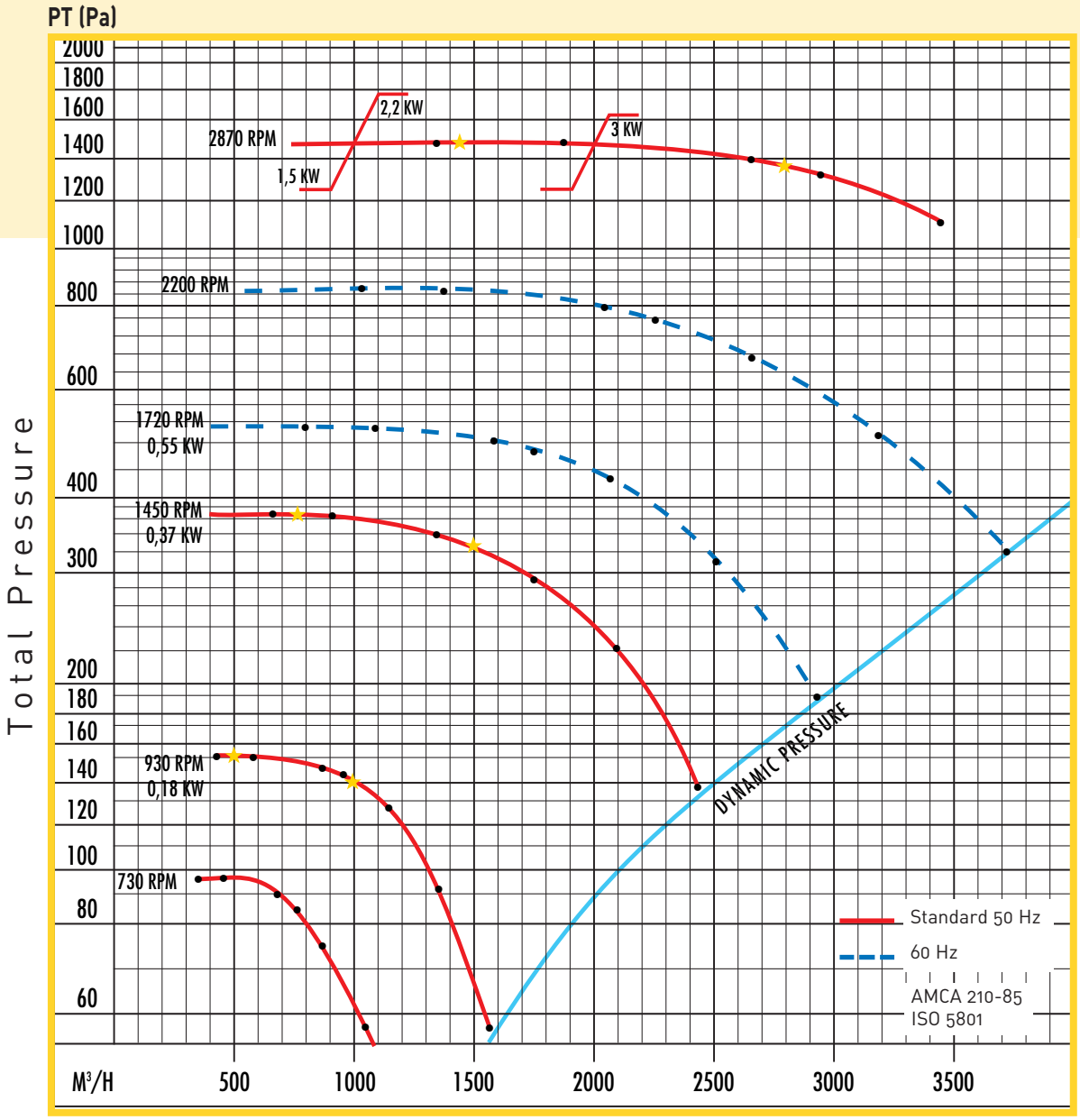
POSITION RD **POSITION LG**

Dimensions (mm) - Chaise métal non fournie (voir accessoires)																
A	B	C	Ø D	E	F	G	H	L	M	P	Y	Y_1	Z	X	X_1	X_2
208	303	240	160	100	57	143	32	84	94	390	180	160	340	240	71	311

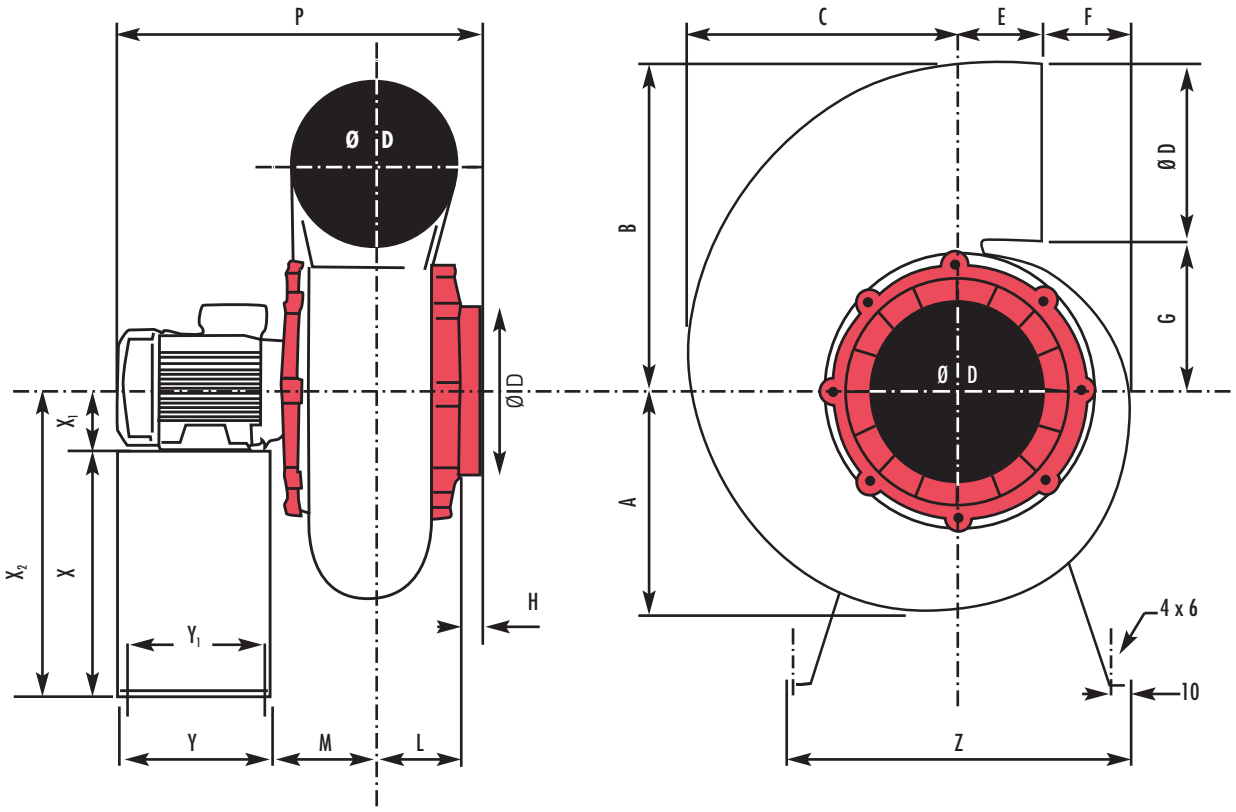
ATTENTION : pour un montage sur une chaise haute protection, X2 = 370 mm.

Positions de montage - Vues côté aspiration							
LG 0	LG 45	LG 90	LG 135	LG 180	LG 225	LG 270	LG 315
RD 0	RD 45	RD 90	RD 135	RD 180	RD 225	RD 270	RD 315

SEAT 25



Sound Level										
Type	RPM	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LW Global dB(A)
SEAT 25	950/6 poles	43	57	54	53	56	46	41	32	44
	1450/4 poles				62	66	55	52	46	54
	2850/6 poles	62	84	78	74	85	70	68	66	71



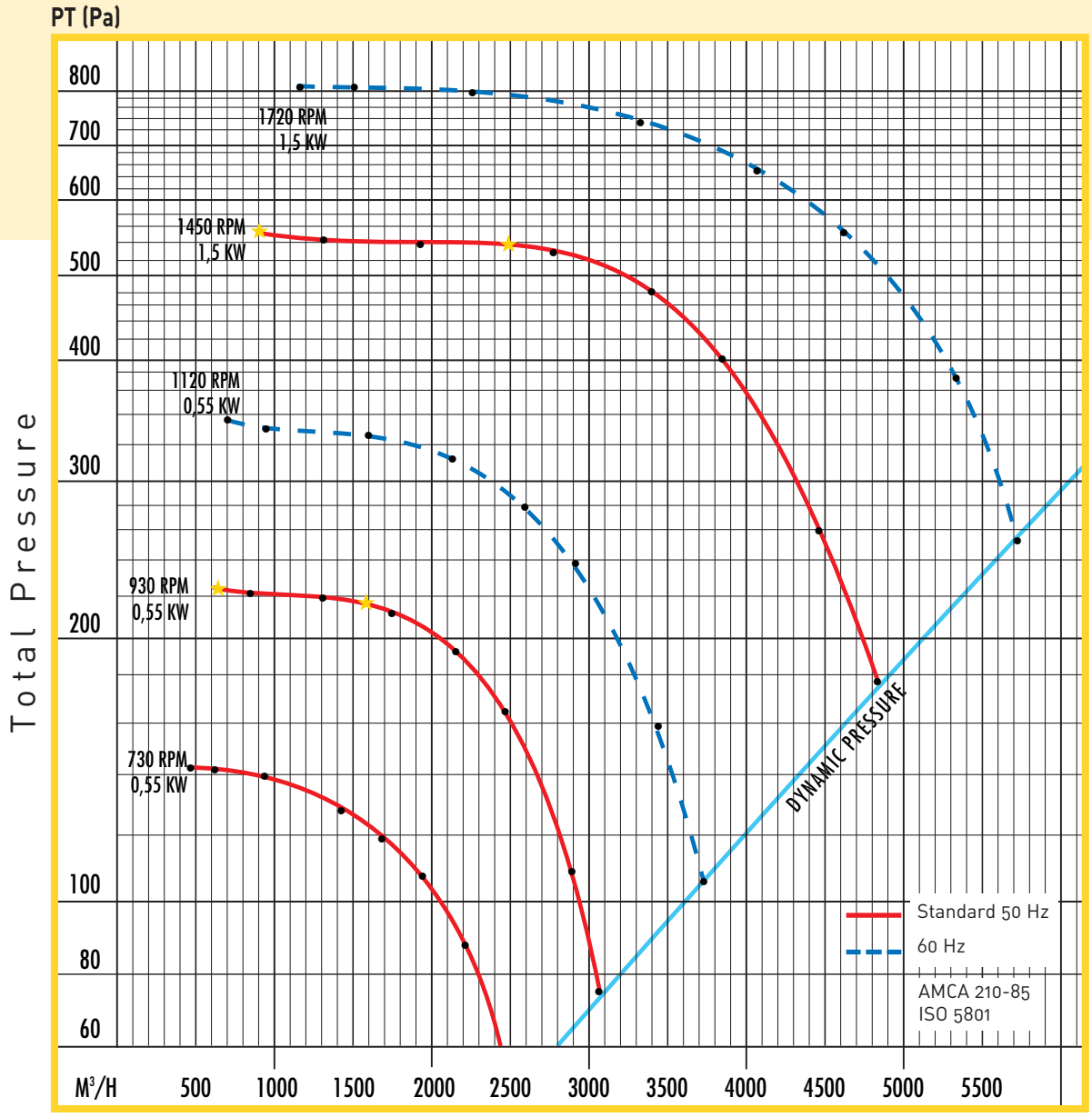
Dimensional data (mm) - Metal stand does not come standard with fan (see accessories pricing). Motor frame size may vary upon type of motor used.																	
RPM	A	B	C	Ø D	E	F	G	H	L	M	P	Y	Y_1	Z	X	X_1	X_2
930 / 1450	248	365	310	200	103	92	165	35	95	105	430	180	160	420	300	71	371
2870	248	365	310	200	103	92	165	35	95	105	515	180	160	420	300	90	390

Handings are viewed from inlet side - 45 degree adjustable

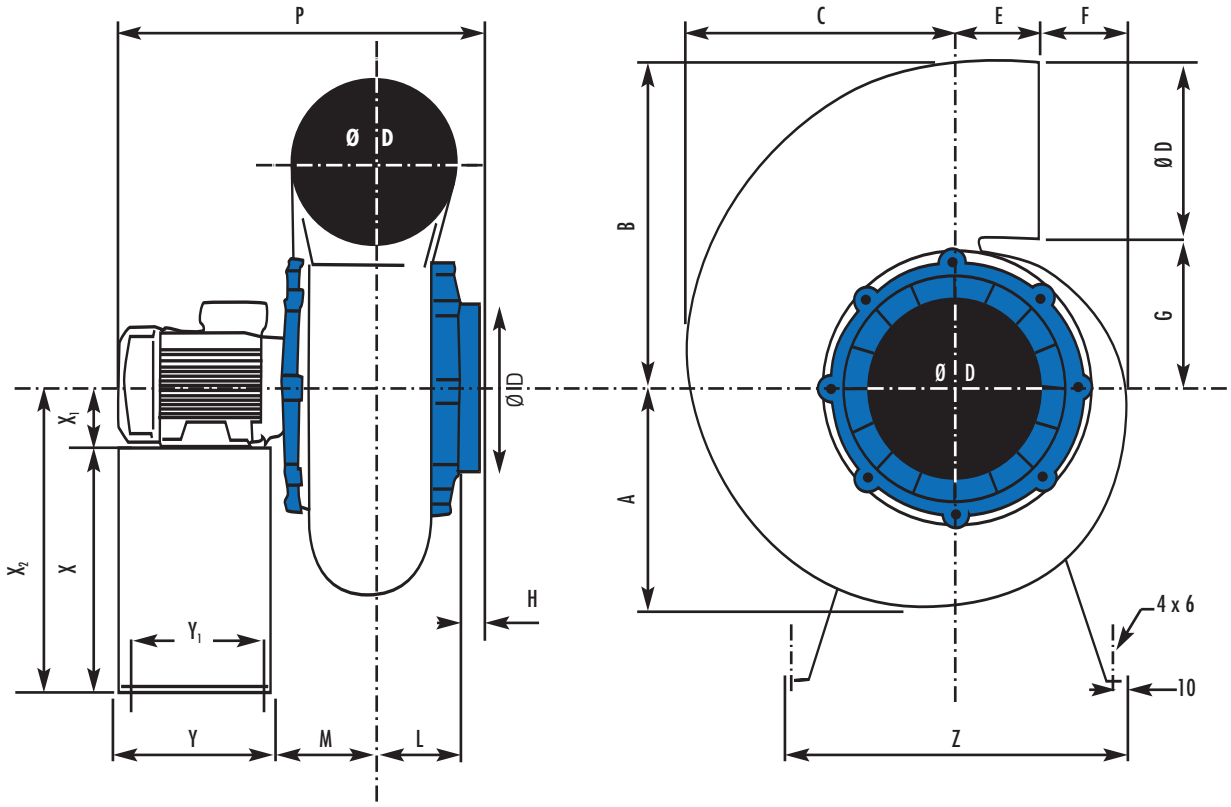
LG 0 **LG 45** **LG 90** **LG 135** **LG 180** **LG 225** **LG 270** **LG 135**

RD 0 **RD 45** **RD 90** **RD 135** **RD 180** **RD 225** **RD 270** **RD 135**

SEAT 30



Sound Level										
Type	RPM	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LW Global dB(A)
SEAT 30	950/6 poles	58	59	52	48	45	42	37	29	45
	1450/4 poles	68	69	61	56	53	50	47	42	55



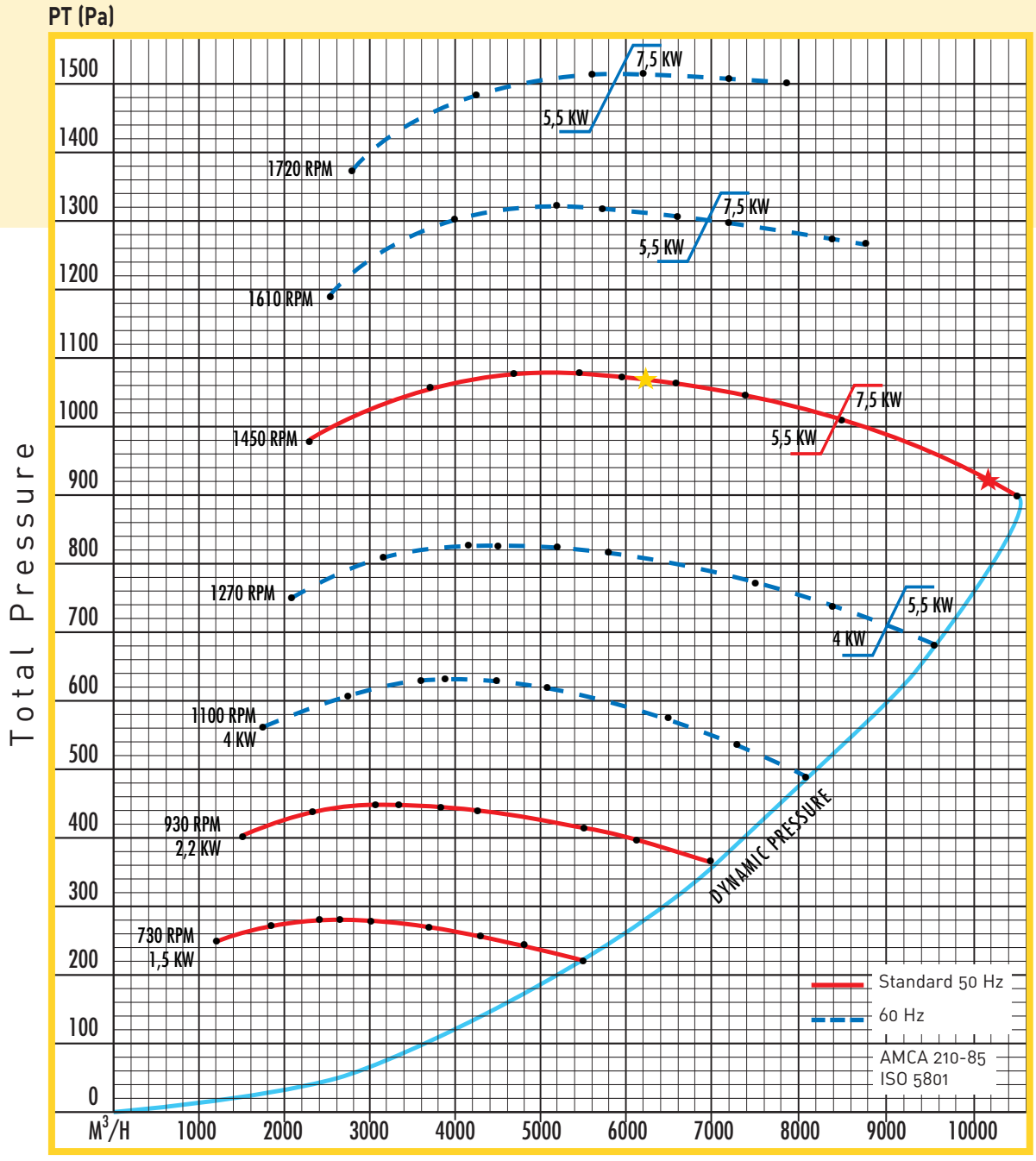
Dimensional data (mm) - Metal stand does not come standard with fan (see accessories pricing). Motor frame size may vary upon type of motor used.																	
RPM	A	B	C	Ø D	E	F	G	H	L	M	P	Y	Y_1	Z	X	X_1	X_2
930	300	450	373	250	117	112	198	35	110	120	510	240	220	460	370	80	450
1450	300	450	373	250	117	112	198	35	110	120	540	240	220	460	370	90	460

Handings are viewed from inlet side - 45 degree adjustable

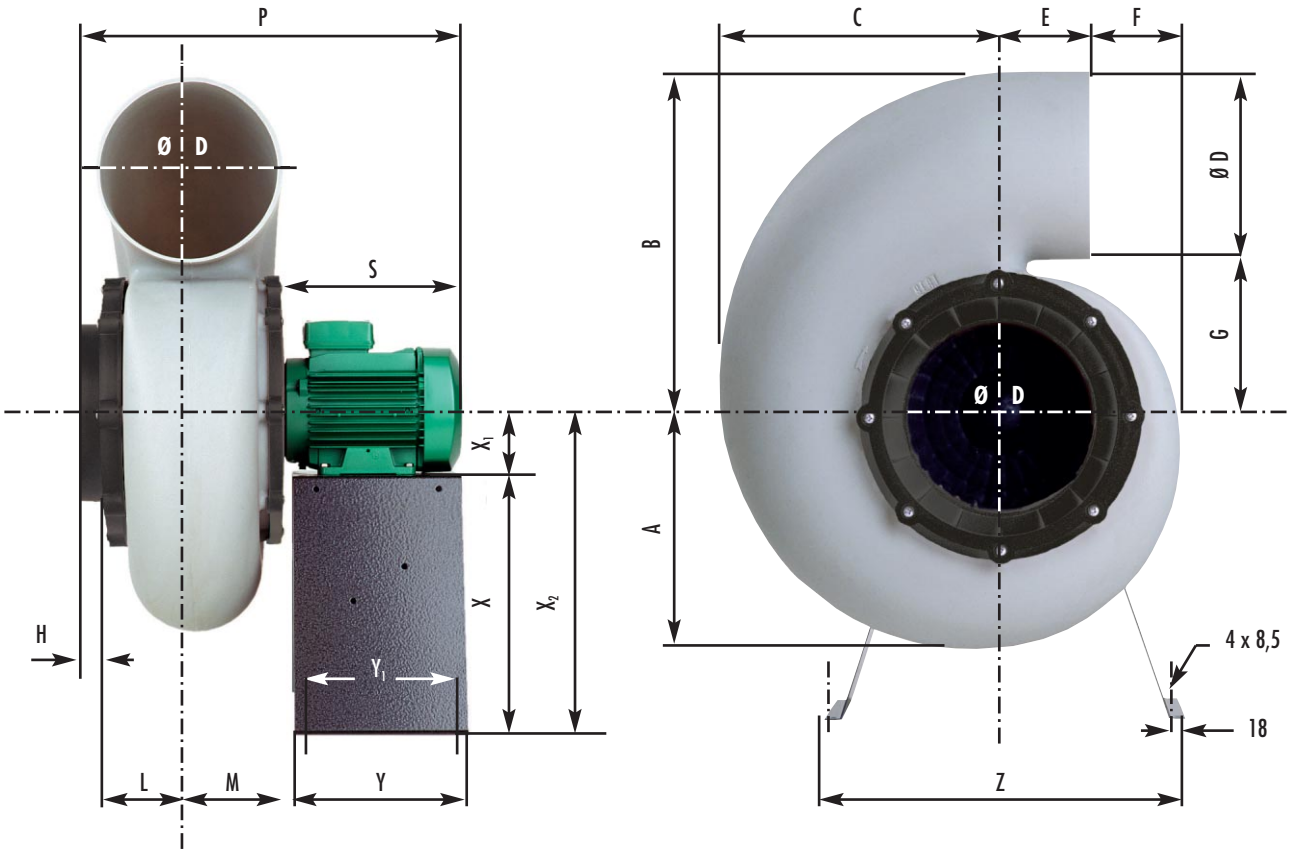
LG 0 **LG 45** **LG 90** **LG 135** **LG 180** **LG 225** **LG 270** **LG 135**

RD 0 **RD 45** **RD 90** **RD 135** **RD 180** **RD 225** **RD 270** **RD 135**

SEAT 35



Sound Level										
Type	RPM	50 Hz	100 Hz	250 Hz	500 Hz	1000 Hz	2500 Hz	5000 Hz	10000 Hz	LW Global dB
SEAT 35	1450/4 poles	68,1	65,7	68,2	68	67,4	66,7	66,8	50,3	82,4



ONLY LG POSITION

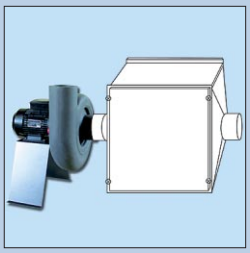
Dimensional data (mm) - Metal stand does not come standard with fan (see accessories pricing). The motor frame size may vary upon type of motor used.																		
RPM	A	B	C	Ø D	E	F	G	H	L	M	P	S	Y	Y_1	Z	X	X_1	X_2
930	370	570	450	315	130	170	255	60	150	170	724	334	350	314	600	468	112	580
1450	370	570	450	315	130	170	255	60	150	170	792	402	350	314	600	468	112	580
1450 ATEX or 7,5 kW	370	570	450	315	130	170	255	60	150	170	822	432	350	314	600	468	132	600

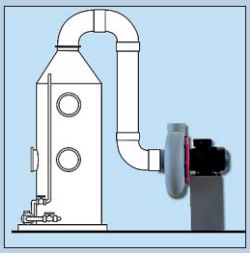
Handings are viewed from inlet inside – 45 degree adjustable

LG 0 **LG 45** **LG 90** **LG 135** **LG 180** **LG 225** **LG 270** **LG 315**

STORM Series

Specifications





Applications: Ventilation of safety cabinets (STORM 10), scrubbers, fume capture arms, filter housing, etc. (STORM 12, 14, 16).

Housings: PP*

Single block strong high density UV treated and recyclable polypropylene (PPH) with no air leakage. All fan mounting hardware in stainless steel. Rotatable to any of 8 standard discharge positions by 45° increments.

** with the exception of STORM 10: PE.*

Wheels: PP

Forward curved centrifugal type impeller made of injection molded PPH. Fan wheel supplied with motor shaft bushing and hub cap constructed of PPH. Wheels electronically and dynamically balanced. LG/CCW rotation only.

Motors

Direct drive, asynchronous, single or three phase, IP55. Single speed: three phase 230/400V-50/60 Hz, single phase 230V-50Hz. Explosion proof motors available on request. Motor is outside the corrosive airstream. Three phase motors speed adjustable by variable frequency inverter drive. STORM 10 is also available with external rotor IP 20 motor for quiet performance.

Motor support: Several options: no stand, metal stand or polypropylene motor pedestal.

ATEX

SEAT Series Fans are also available in ATEX Zone II, known outside Europe as explosion proof, category 3 G execution in accordance with ATEX directive 94/9/CE. ATEX declaration of conformity available on our web site www.seat-ventilation.com. The performances curves of explosion proof fans are identical with the ones of the standard version.

Performance

Fan performance based on tests conducted in accordance ith AMCA 210-85 and ISO 5801.

Temperature resistance

PPH casing and wheel recommended up to 80°C.

Warranty

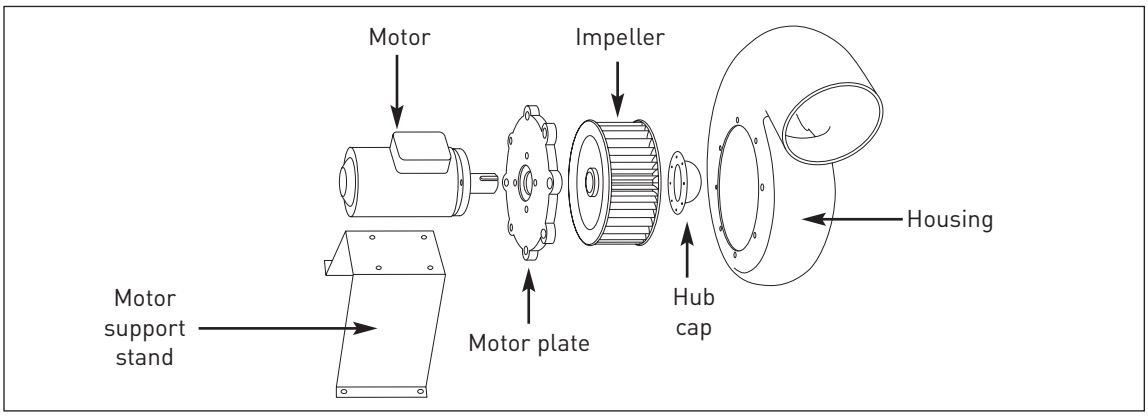
SEAT VENTILATION warrants its equipment to be free from defects in workmanship and material under normal use and service for two years after shipment. Warranty is void if damage results from improper wiring or installation.

Electrical data and weight*

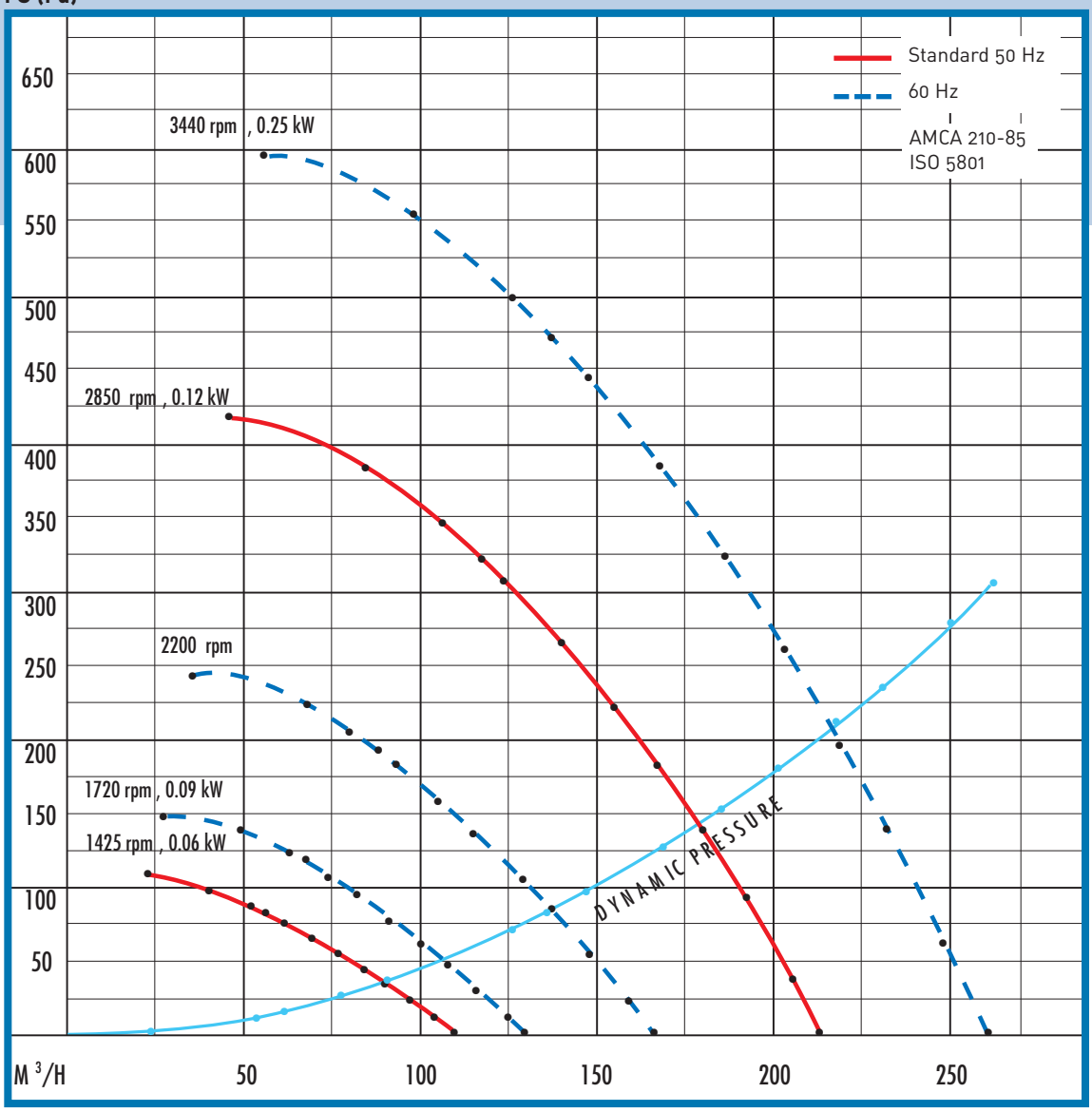
	RPM (T/min)	(kW)	(V)	AMP draw (A)	Weight (Kgs)
Single phase					
STORM 10	1250	0,04	230	0,31	4,33
	1500	0,09	230	1,12	3,00
	3000	0,12	230	1,20	4,43
STORM 12	1500	0,25	230	2,50	7,03
	3000	0,37	230	3,10	7,53
Three phase					
STORM 10	1500	0,09	230/400	0,63/0,37	4,00
	3000	0,12	230/400	0,80/0,46	4,33
STORM 12	1500	0,25	230/400	1,70/0,96	7,3
	3000	0,37	230/400	1,70/1,00	7,4
STORM 14	3000	1,10	230/400	4,70/2,70	15,80
STORM 16	3000	2,20	230/400	8,80/5,10	20,59
ATEX					
STORM 10 ATEX	1500	0,06	230/400	0,65/0,37	4,33
	2800	0,12	230/400	0,80/0,46	4,33
STORM 12 ATEX	1500	0,18	230/400	0,97/0,56	13,6
	3000	0,37	230/400	1,64/0,95	16,6
STORM 14 ATEX	3000	1,10	230/400	4,4/2,5	23,10
STORM 16 ATEX	3000	2,20	230/400	8,00/4,60	33,70

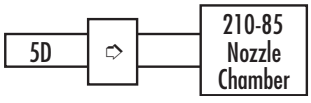
*Tabulated current values are approximate and depend on make and model of the motor.

Assembly drawing for Storm 12, Storm 14 and Storm 16

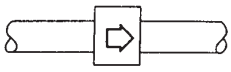


STORM 10





Noise level type B.
Visit our website for details.



Type D
Ducted inlet/Ducted outlet

Housing and motor noise level when fan is running near maximum output

n (T/min) R.P.M.	dB(A)	dB
1435	52,3	61,6
1720	57,1	67,4
2870	69,7	80,8
3440	74,1	85,2

ISO 13347

n (T/min) R.P.M.	Global dB	Global dB (A)
1435	62,9	51,6
1720	68,1	56,5
2870	81,1	69,6
3440	85,5	74,4

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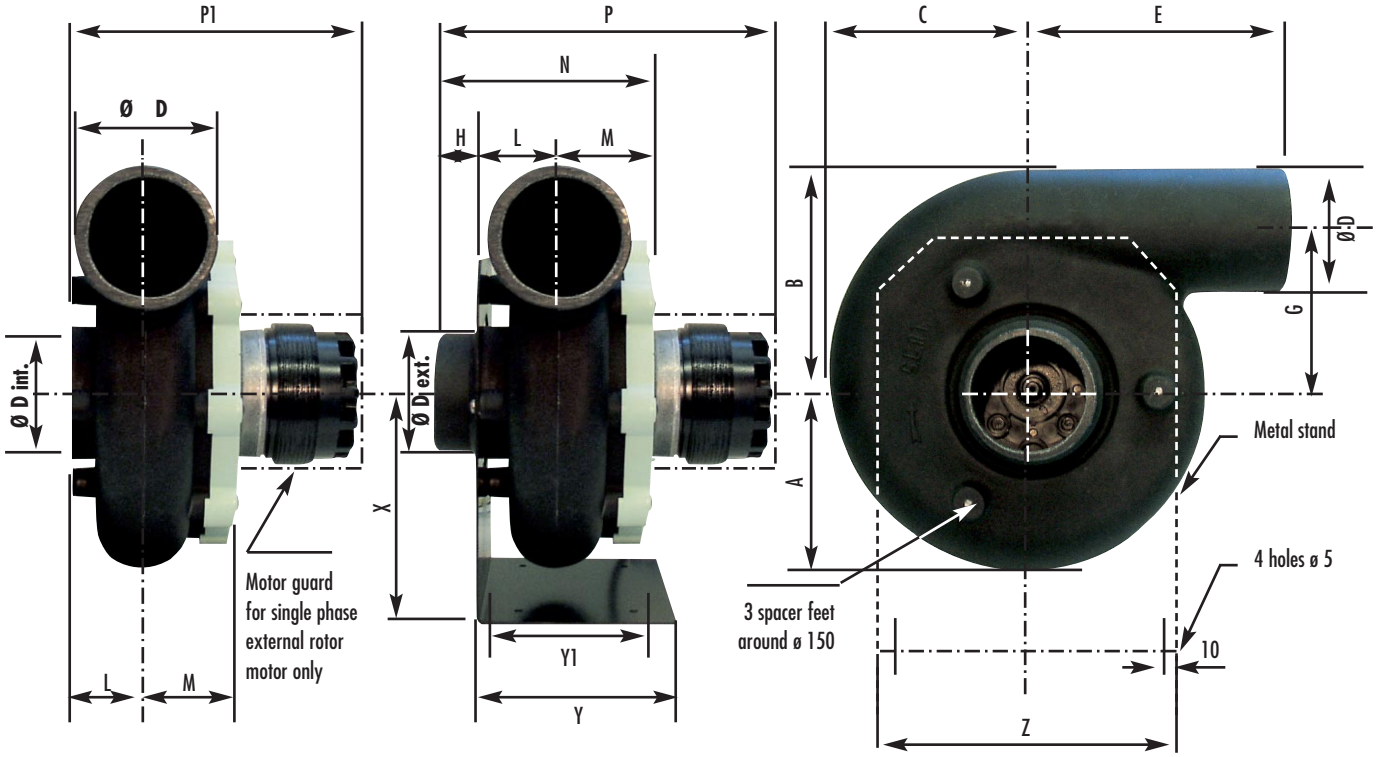


ONLY LG POSITION

Dimensional data (mm). Metal stand does not come standard with fan (see accessories pricing). The motor frame size may vary upon type of motor used.

A	B	C	Ø D	E	G	H	L	M	N	Y	Y_1	Z	X
115	135	127	75	158	97	32	48	57	137	120	100	165	135

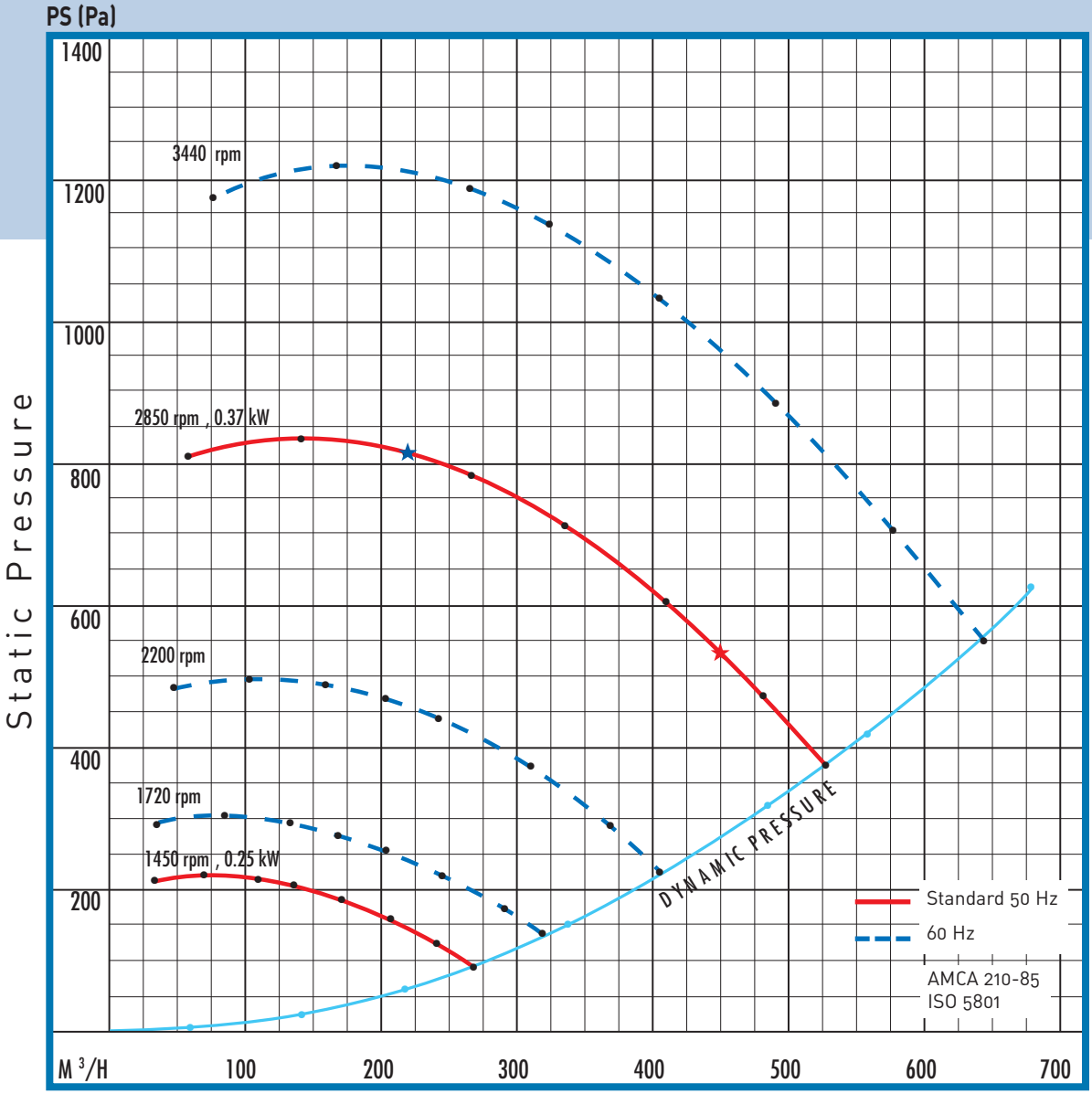
Motor type		
	P1	P
Single phase, rotor exterior, IP20 with cover	173	205
ATEX Three phase	262	295
Three phase, IP55	253	285

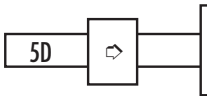
Handings with IP55 motor type are viewed from inlet side - 45 degree adjustable

LG 0 **LG 45** **LG 90** **LG 135** **LG 180** **LG 225** **LG 270** **LG 315**

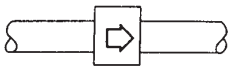
LG 0 and LG 90 are handings with IP20 motor type.

STORM 12





Noise level type B.
Visit our website for details.



Type D
Ducted inlet/Ducted outlet

Housing and motor noise level when fan is running near maximum output

n (T/min) R.P.M.	★ dB(A) ★		dB	
1450	69,9	71,7	82	83,9
1720	73,5	75,3	86,9	87,6
2850	84,2	85,8	98,7	98,1
3300	87,4	88,8	101,9	100,9

ISO 13347

n (T/min) R.P.M.	Global dB	Global dB (A)
1450	60,4	56,8
1720	65,2	61,5
2850	76,8	74
3300	80,5	77,8

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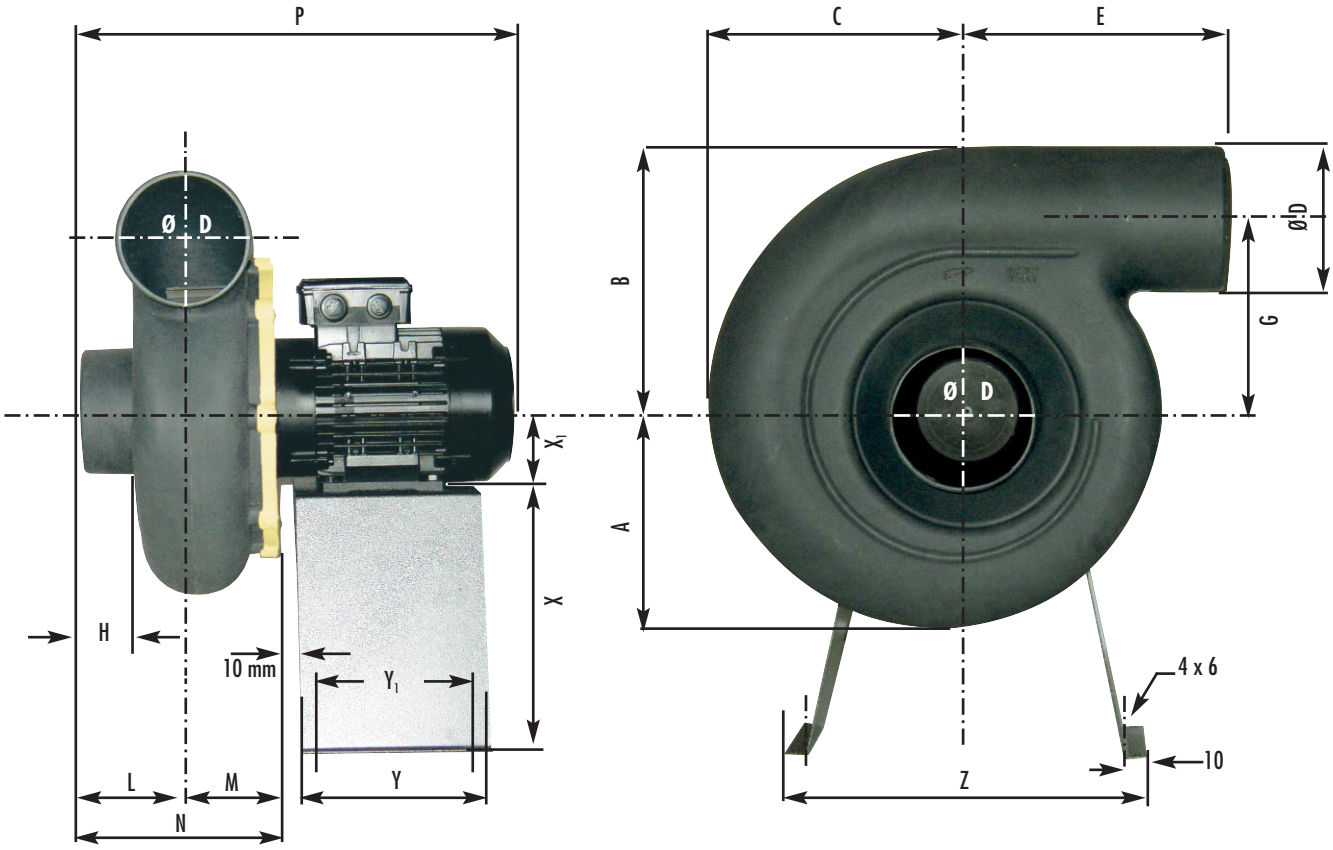
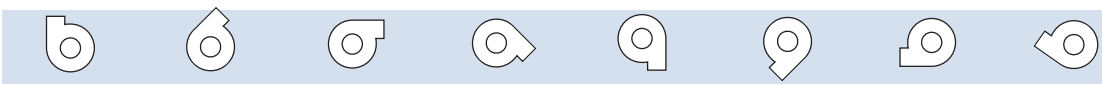


ONLY LG POSITION

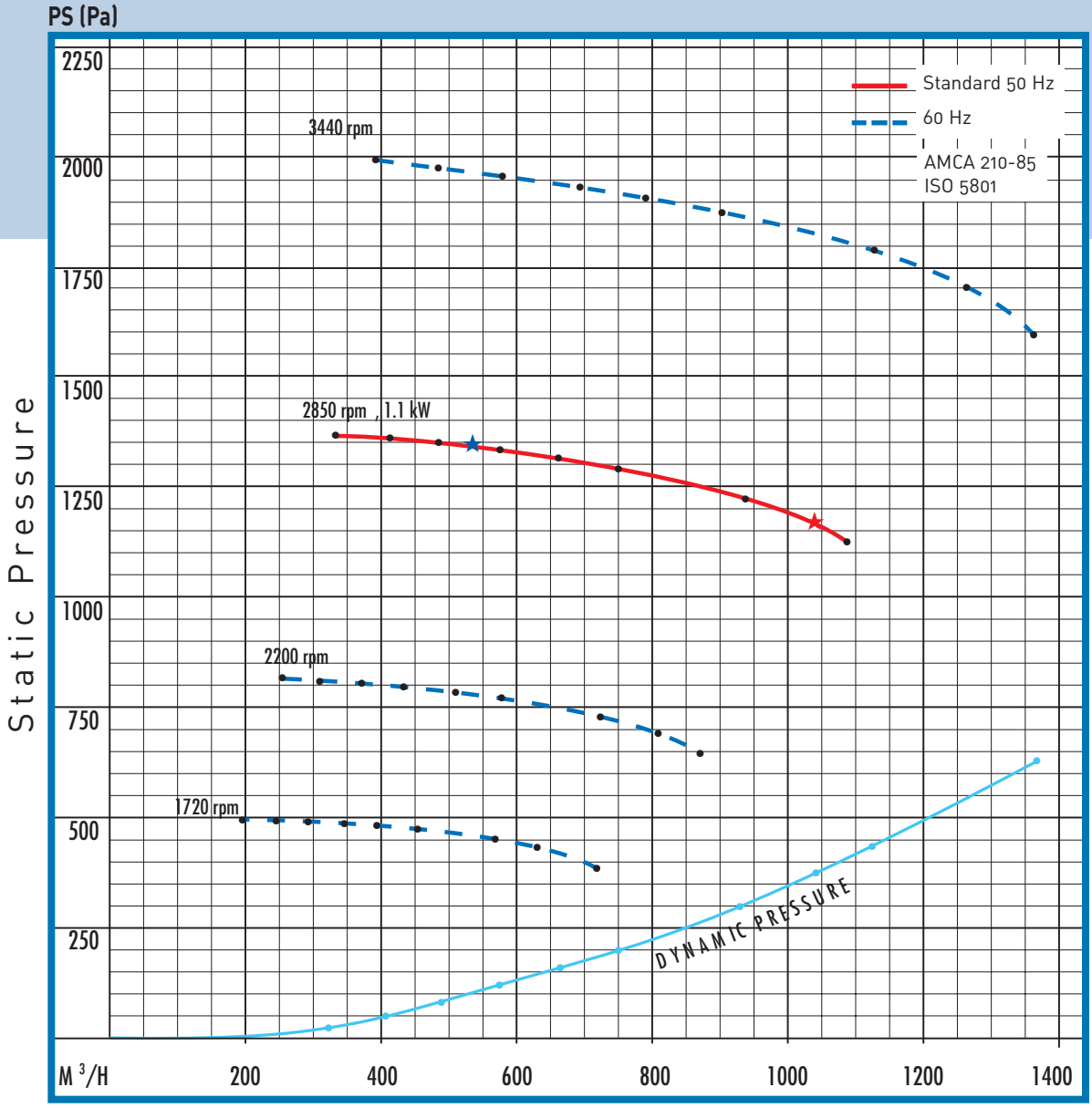
Dimensional data (mm). Metal stand does not come standard with fan (see accessories pricing). The motor frame size may vary upon type of motor used.															
A	**B**	**C**	**Ø D**	**E**	**G**	**H**	**L**	**M**	**N**	**P**	**Y**	**Y_1**	**Z**	**X**	**X_1**
145	175	163	90	212	130	45	80	72	152	350	180	160	340	240	71

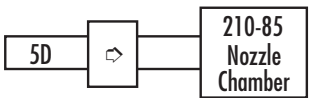
Handings with IP55 motor type are viewed from inlet side - 45 degree adjustable



LG 0 **LG 45** **LG 90** **LG 135** **LG 180** **LG 225** **LG 270** **LG 315**

STORM 14





Noise level type B.
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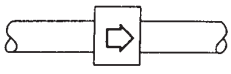

Type D
Ducted inlet/Ducted outlet

Housing and motor noise level when fan is running near maximum output

n (T/min) R.P.M.	★ dB(A)	★	dB	
1450	72,5	75	87,2	87,3
1720	76,4	78,8	93,1	90,8
2850	88,1	89,3	109,3	105,8
3300	91,3	93,1	112,4	110,5

ISO 13347

n (T/min) R.P.M.	Global dB	Global dB (A)
1450	65,4	61,1
1720	69,1	69,1
2850	82,1	78
3300	86,7	81,8

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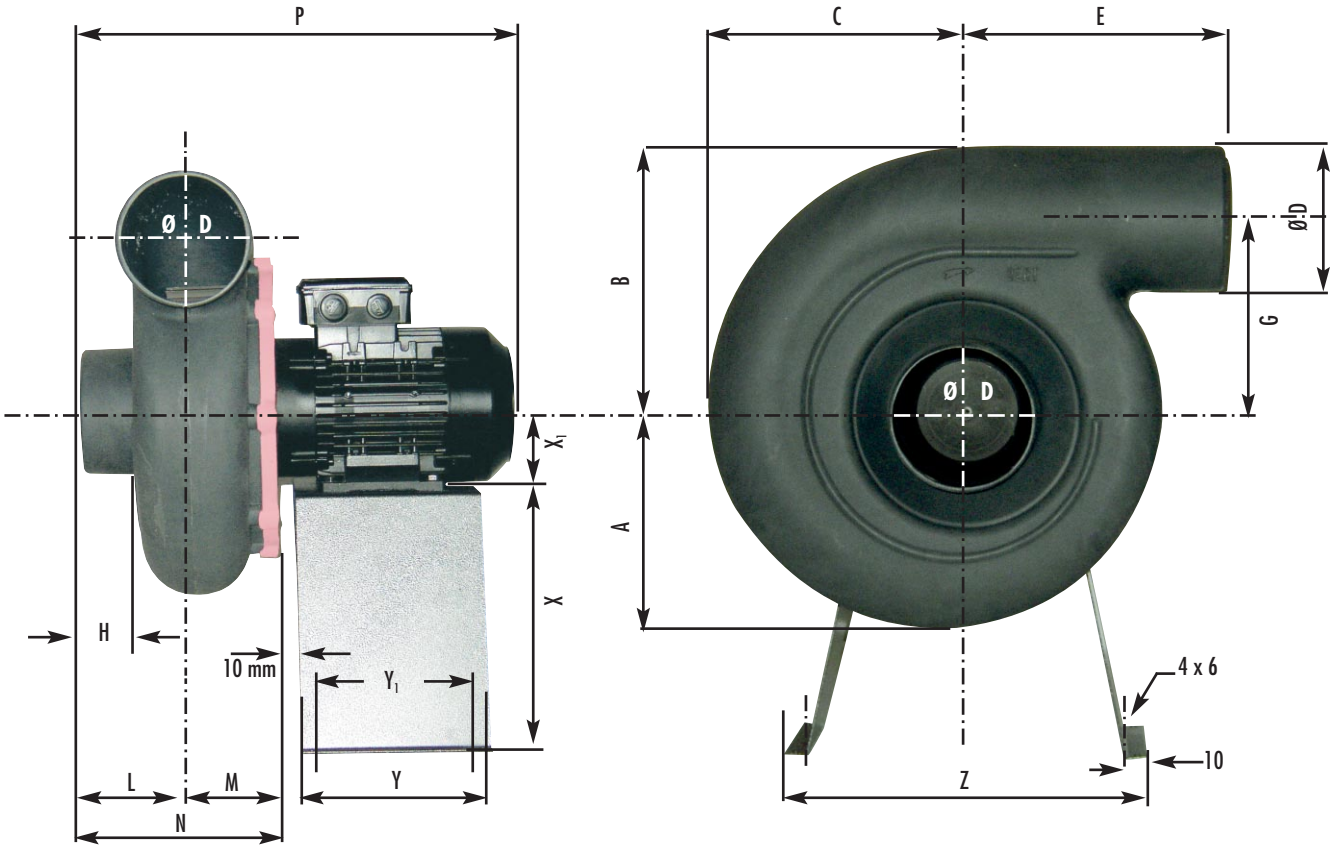


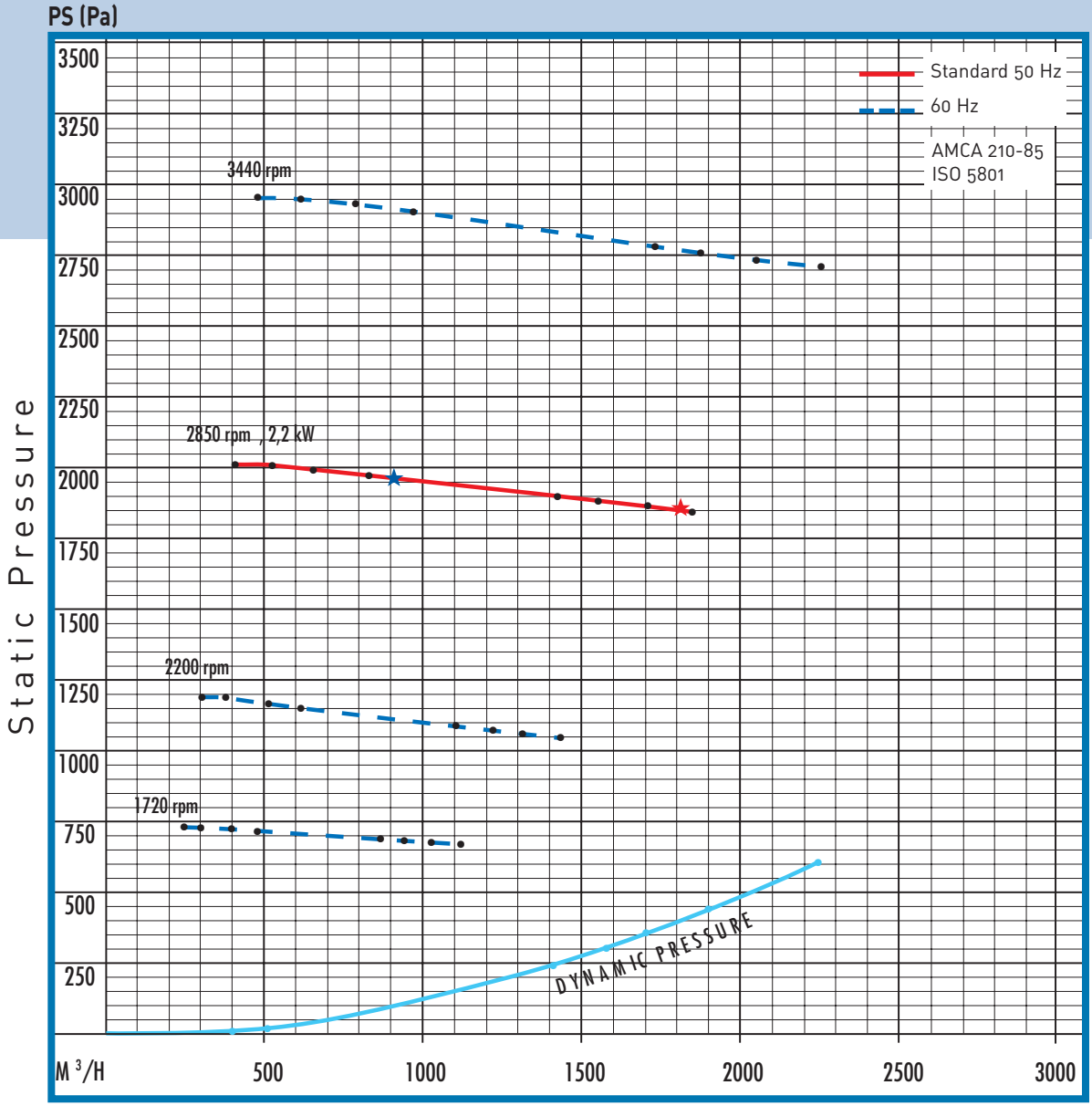
ONLY LG POSITION

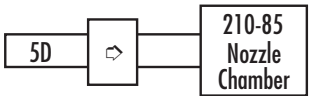
Dimensional data (mm). Metal stand does not come standard with fan (see accessories pricing). The motor frame size may vary upon type of motor used.															
A	B	C	Ø D	E	G	H	L	M	N	P	Y	Y_1	Z	X	X_1
188	232	227	125	218	170	55	110	83	193	433	180	160	340	240	80

Handings with IP55 motor type are viewed from inlet side - 45 degree adjustable

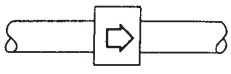
LG 0 | LG 45 | LG 90 | LG 135 | LG 180 | LG 225 | LG 270 | LG 315

STORM 16





Noise level type B.
Visit our website for details.



Type D
Ducted inlet/Ducted outlet

Housing and motor noise level when fan is running near maximum output

n (T/min) R.P.M.	★ dB(A)	★	dB	
1450	77,7	79,3	90,6	92,6
1720	81,8	83,3	99,1	98,2
2850	93,8	94,8	115,8	110
3300	97	98,2	119	114,2

ISO 13347

n (T/min) R.P.M.	Global dB	Global dB (A)
1450	90,6	77,7
1720	99,1	81,8
2850	115,8	93,8
3300	119	97

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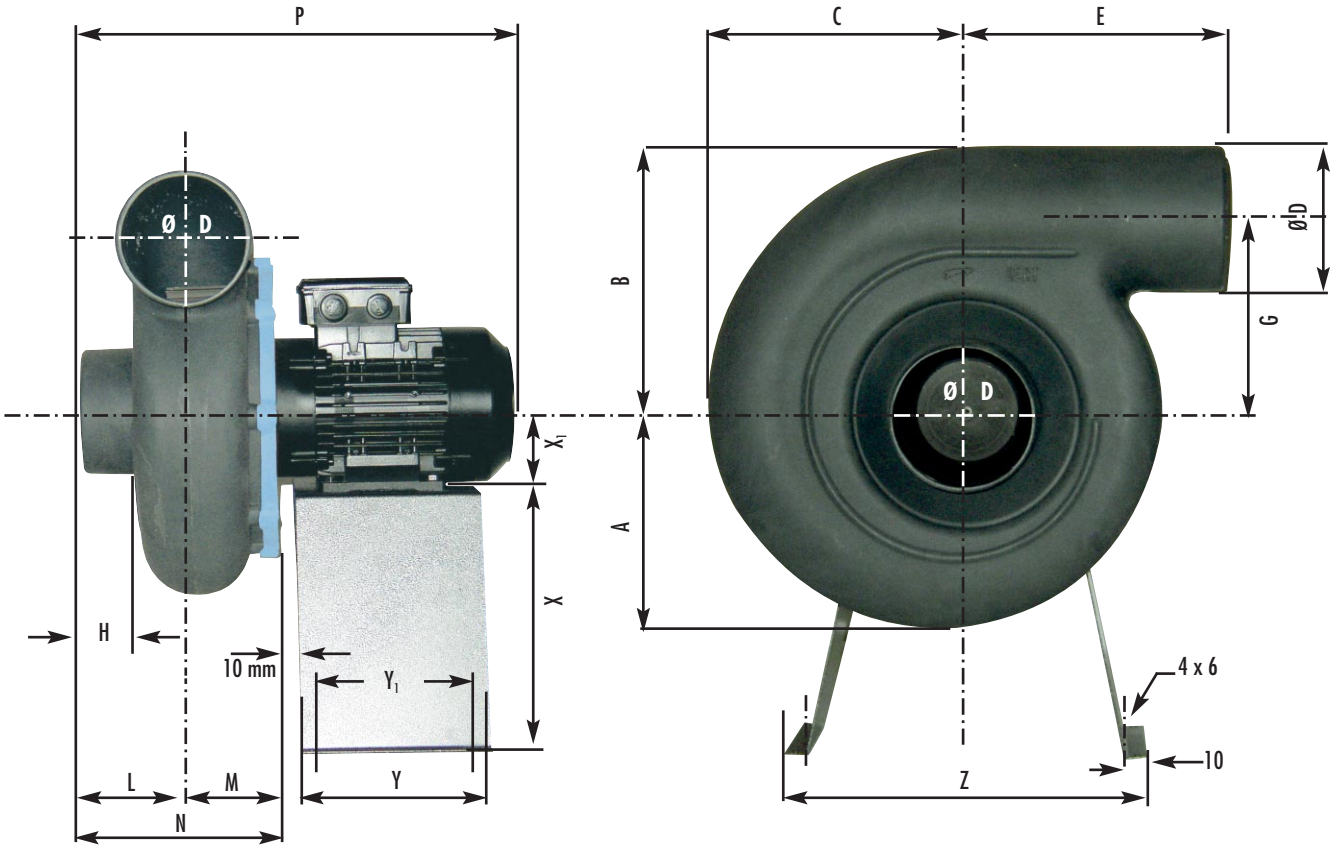
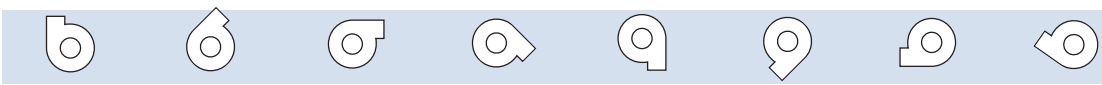


ONLY LG POSITION

Dimensional data (mm). Metal stand does not come standard with fan (see accessories pricing). The motor frame size may vary upon type of motor used.

A	B	C	Ø D	E	G	H	L	M	N	P	Y	Y_1	Z	X	X_1
235	288	278	160	262	205	40	100	97	197	477	240	160	420	300	90

Handings with IP55 motor type are viewed from inlet side - 45 degree adjustable



LG 0 | LG 45 | LG 90 | LG 135 | LG 180 | LG 225 | LG 270 | LG 315