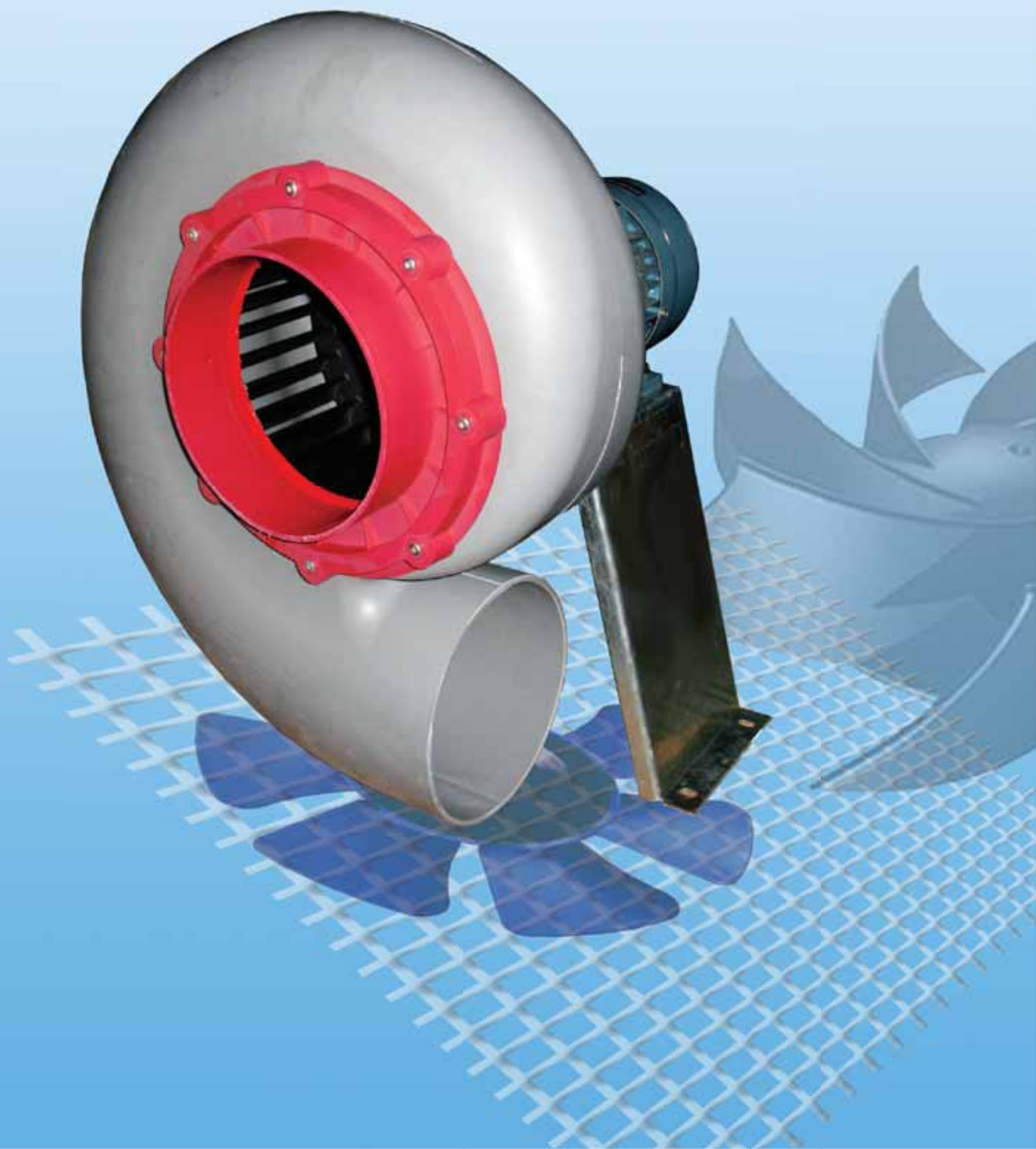


# Chemical Resistance Fan Series Model Nos.: SEAT



# Corrosion resistant polypropylene 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

## Kit roof unit

## SEAT 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", subsidiary 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
- Chemical industry
- Water treatment plants
- Hospitals
- Electroplating
- College and universities



## Our values

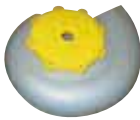
- **Competence:** you can count on our team of ventilation specialists to help you select the most adapted equipment for your needs and budget.
- **Customer care:** we are committed to respond to your enquiries within 48 hours thanks to our dedicated multilingual staff. Orders, unless exceptionally large 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

### Specification

#### Housings: PP



Single block strong high density UV treated and recyclable polypropylene (PPH) with no welded joint. Reversible and rotatable 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



(1)



(2)



(3)

Several options: no stand, metal stand constructed of epoxy coated sheet metal<sup>(1)</sup>, polypropylene motor pedestal<sup>(2)</sup> or roof unit kit<sup>(3)</sup>.

#### 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](http://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

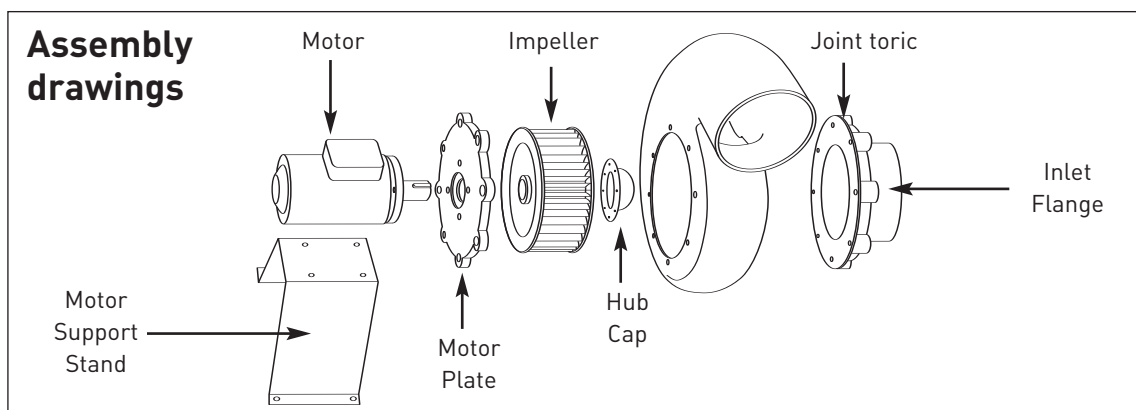
SEAT VENTILATION warrants its equipment to be free from defects in workmanship and material under normal use and service for one year after shipment. Warranty is void if damage results from improper wiring or installation.

## 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

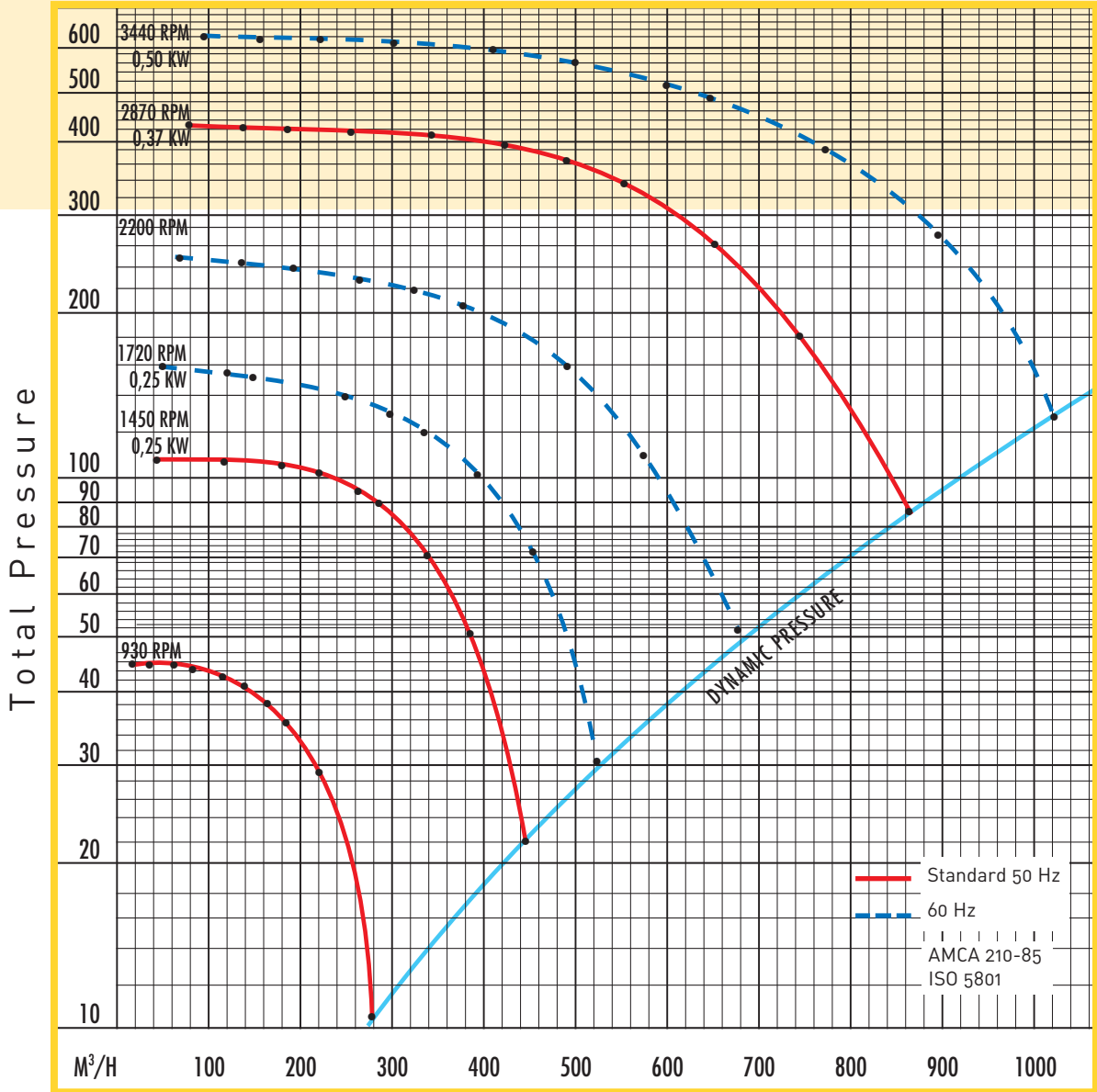
Three Phase					
SEAT 15	1000	0,18	230/400	1,5/0,85	6,00
	1500	0,25	230/400	1,3/0,75	11,30
	3000	0,37	230/400	1,7/1,00	10,20
SEAT 20	1000	0,18	230/400	1,5/0,85	9,70
	1500	0,25	230/400	1,3/0,75	12,00
	3000	0,75	230/400	3,2/1,9	13,20
SEAT 25	3000	1,10	230/400	4,7/2,7	15,70
	1000	0,18	230/400	1,5/0,85	11,10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



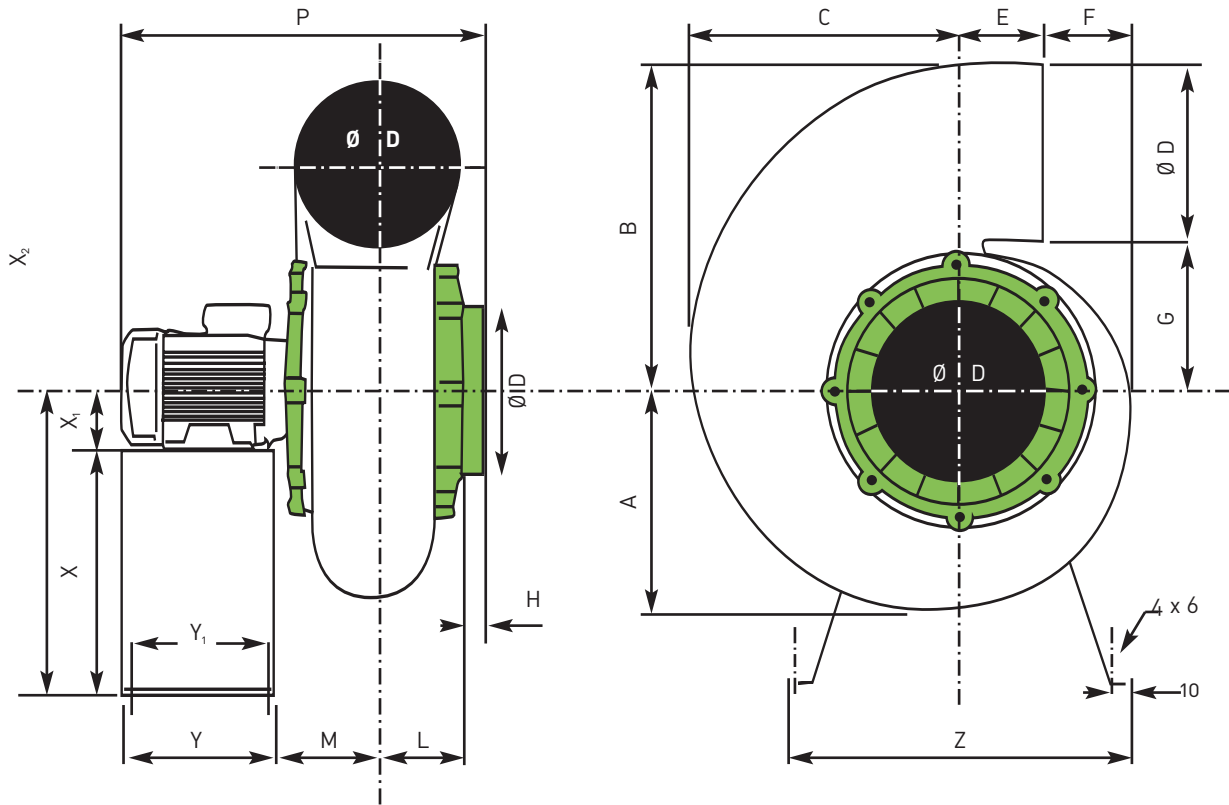
# SEAT 15

PT (Pa)



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	$\emptyset D$	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**

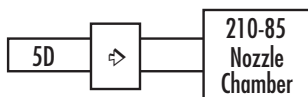
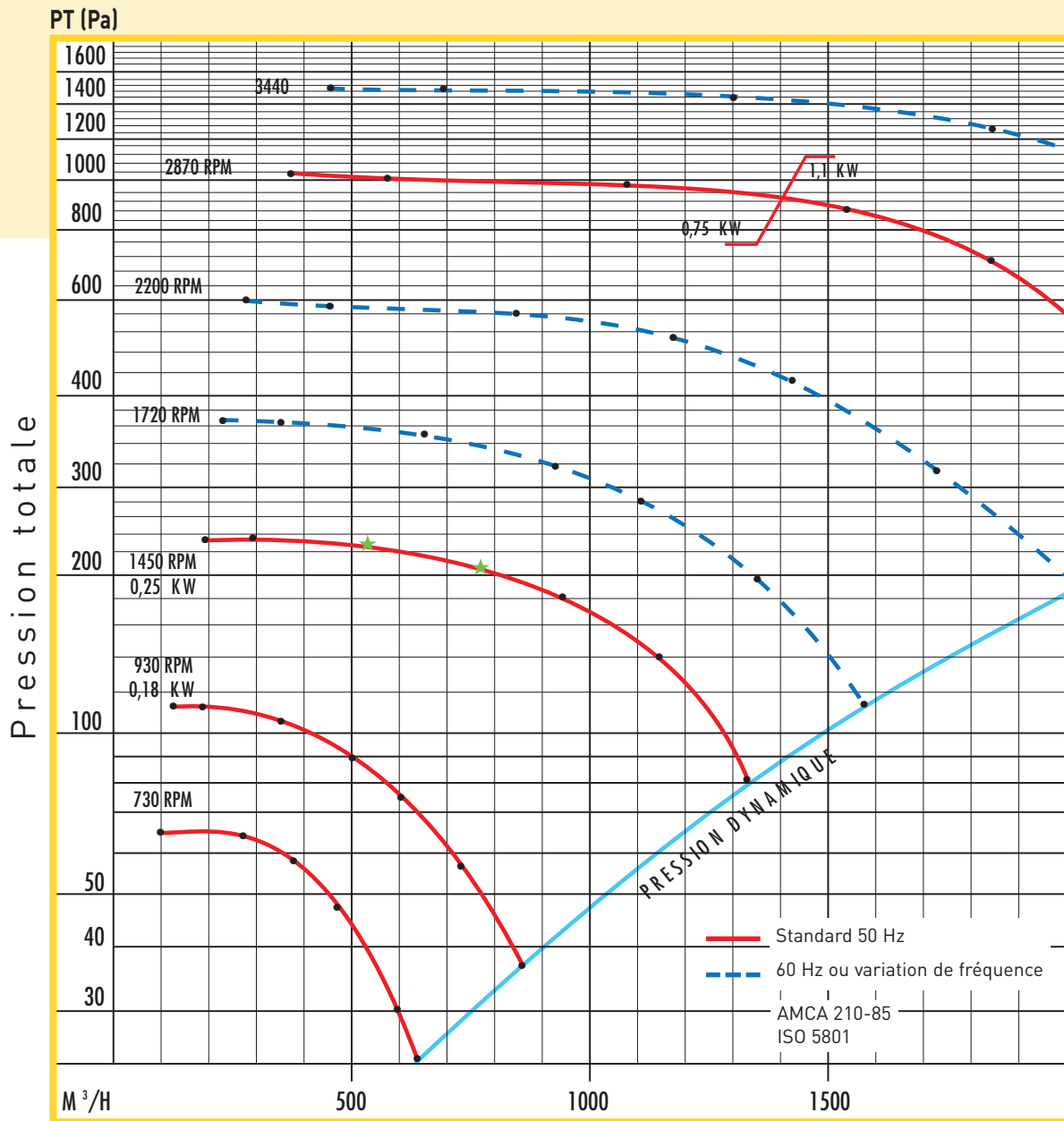


**RD 270**



**RD 135**

# SEAT 20



Type B  
LW Mesure Puissance Acoustique

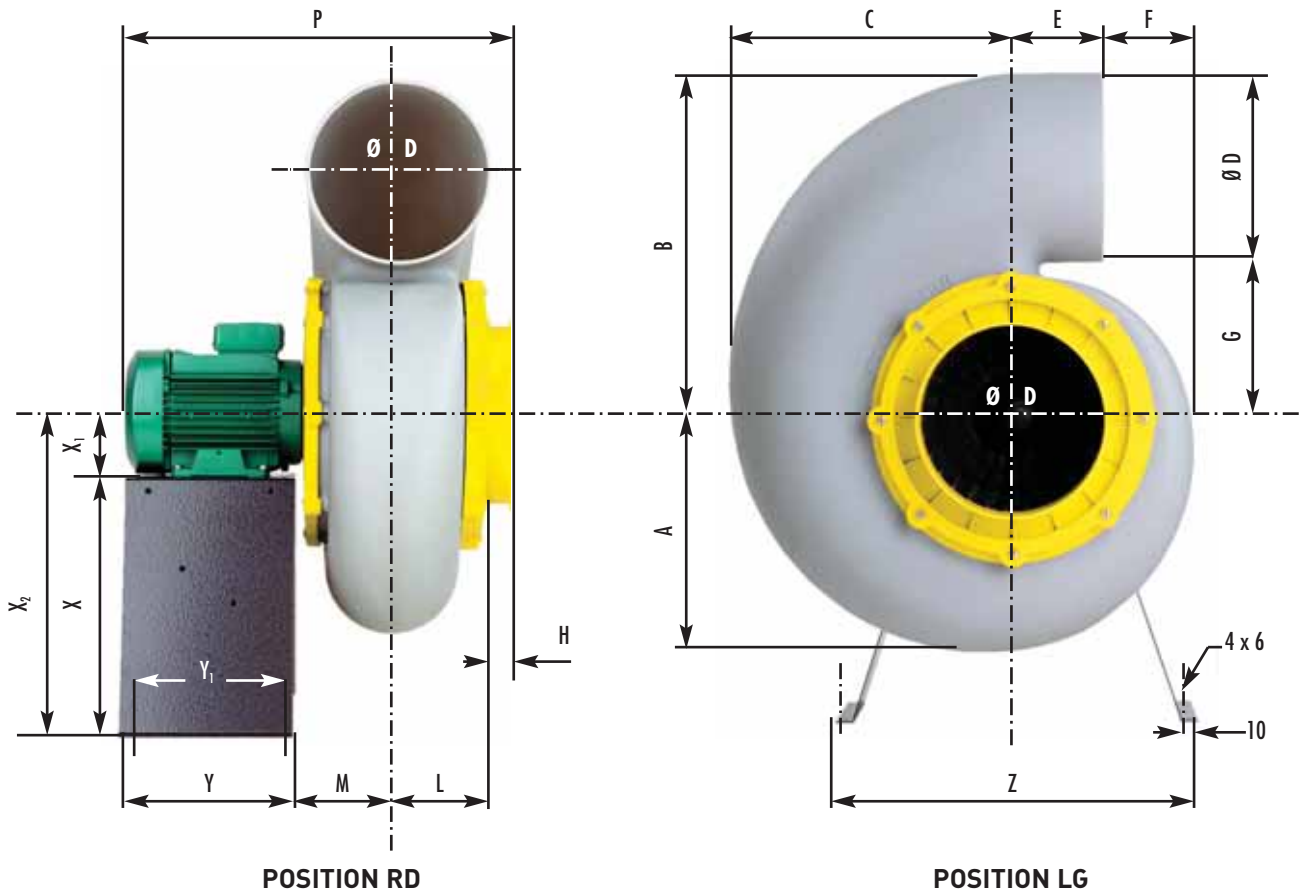


Type D  
Bruit d'enveloppe

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

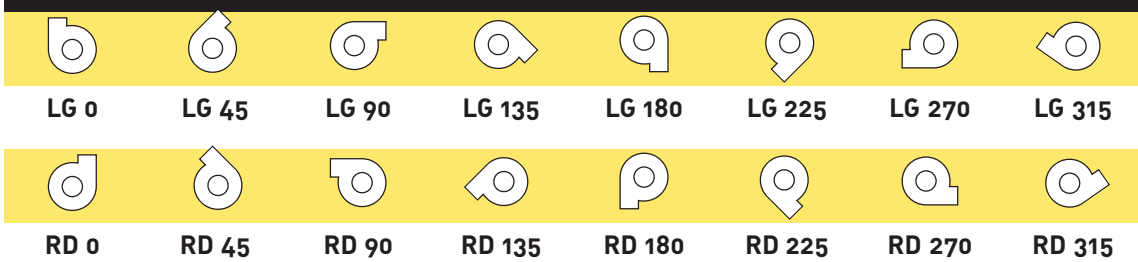


**Dimensions (mm) - Chaise métal non fournie (voir accessoires)**

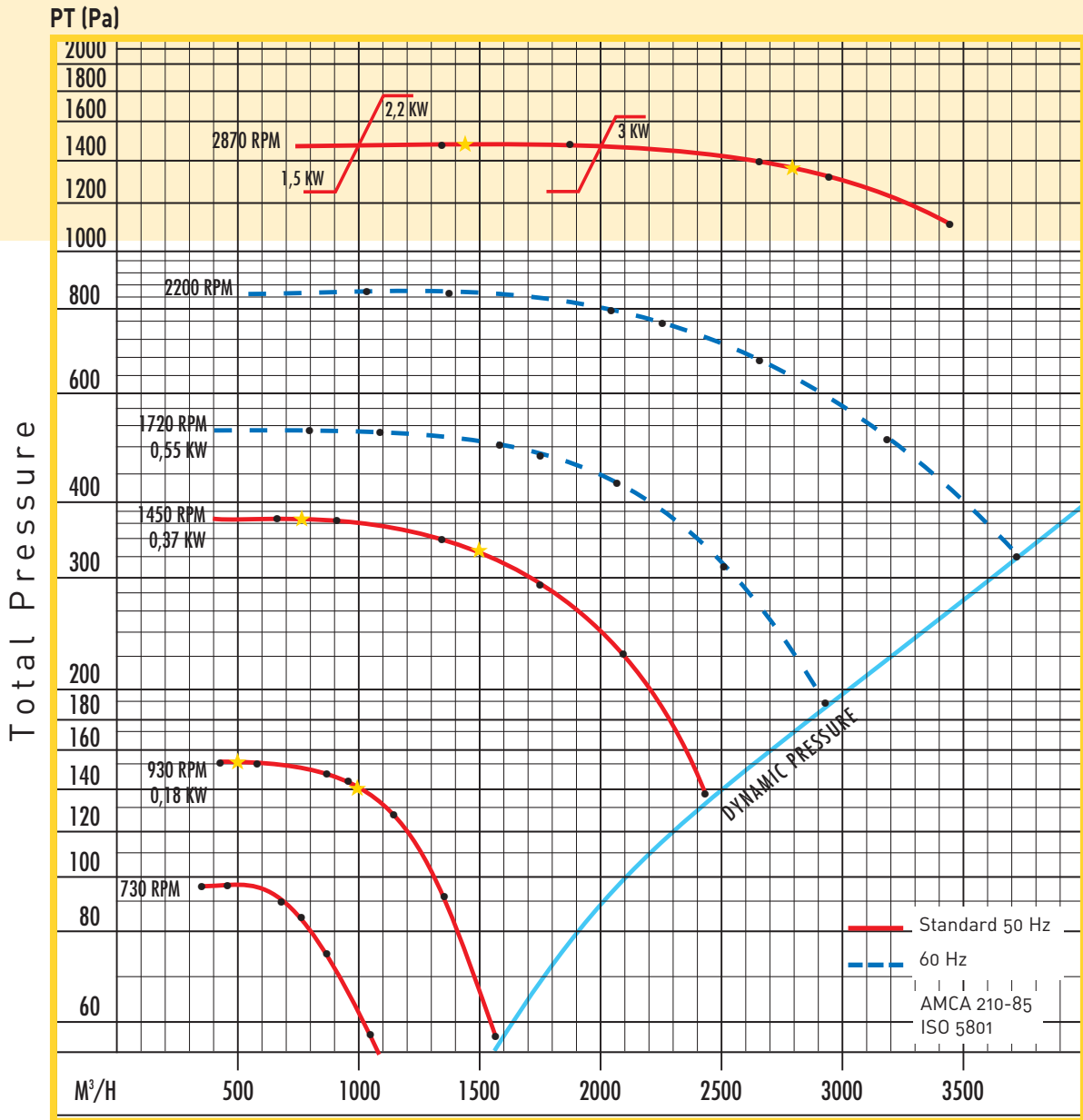
A	B	C	Ø D	E	F	G	H	L	M	P	Y	Y <sub>1</sub>	Z	X	X <sub>1</sub>	X <sub>2</sub>
208	303	240	160	100	57	143	32	84	94	390	180	160	340	240	71	311

ATTENTION : pour un montage sur une chaise haute protection, X<sub>2</sub> = 370 mm.

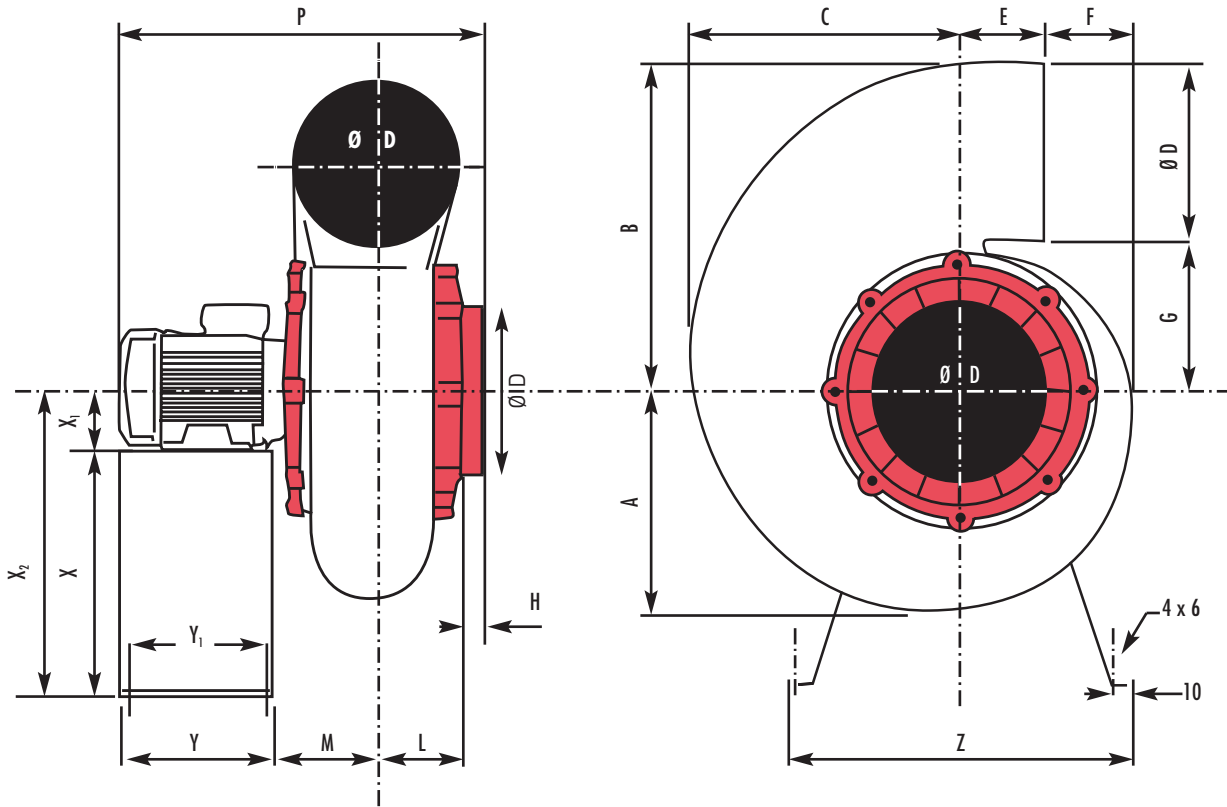
**Positions de montage - Vues côté aspiration**



# 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 <sub>1</sub>	Z	X	X <sub>1</sub>	X <sub>2</sub>
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**

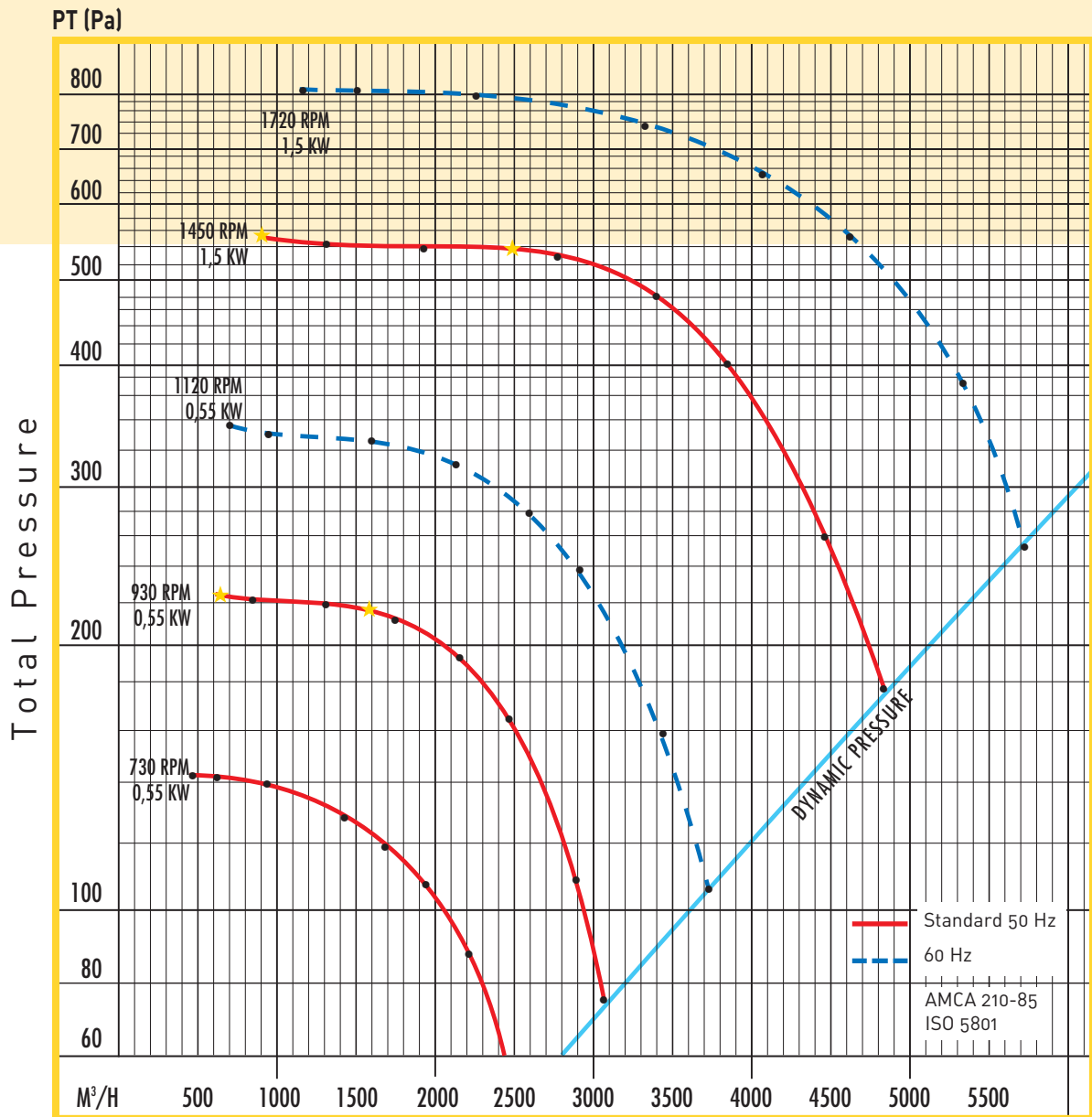


**RD 270**

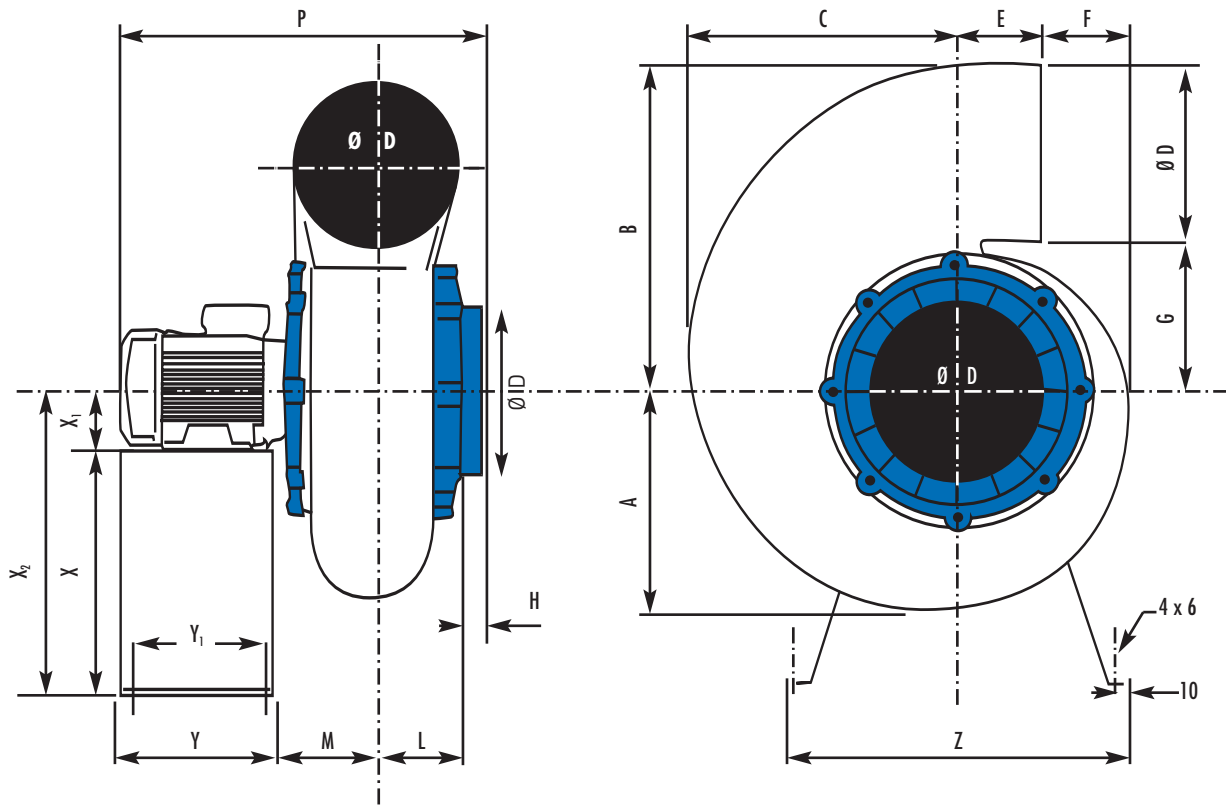


**RD 135**

# 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 <sub>1</sub>	Z	X	X <sub>1</sub>	X <sub>2</sub>
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**

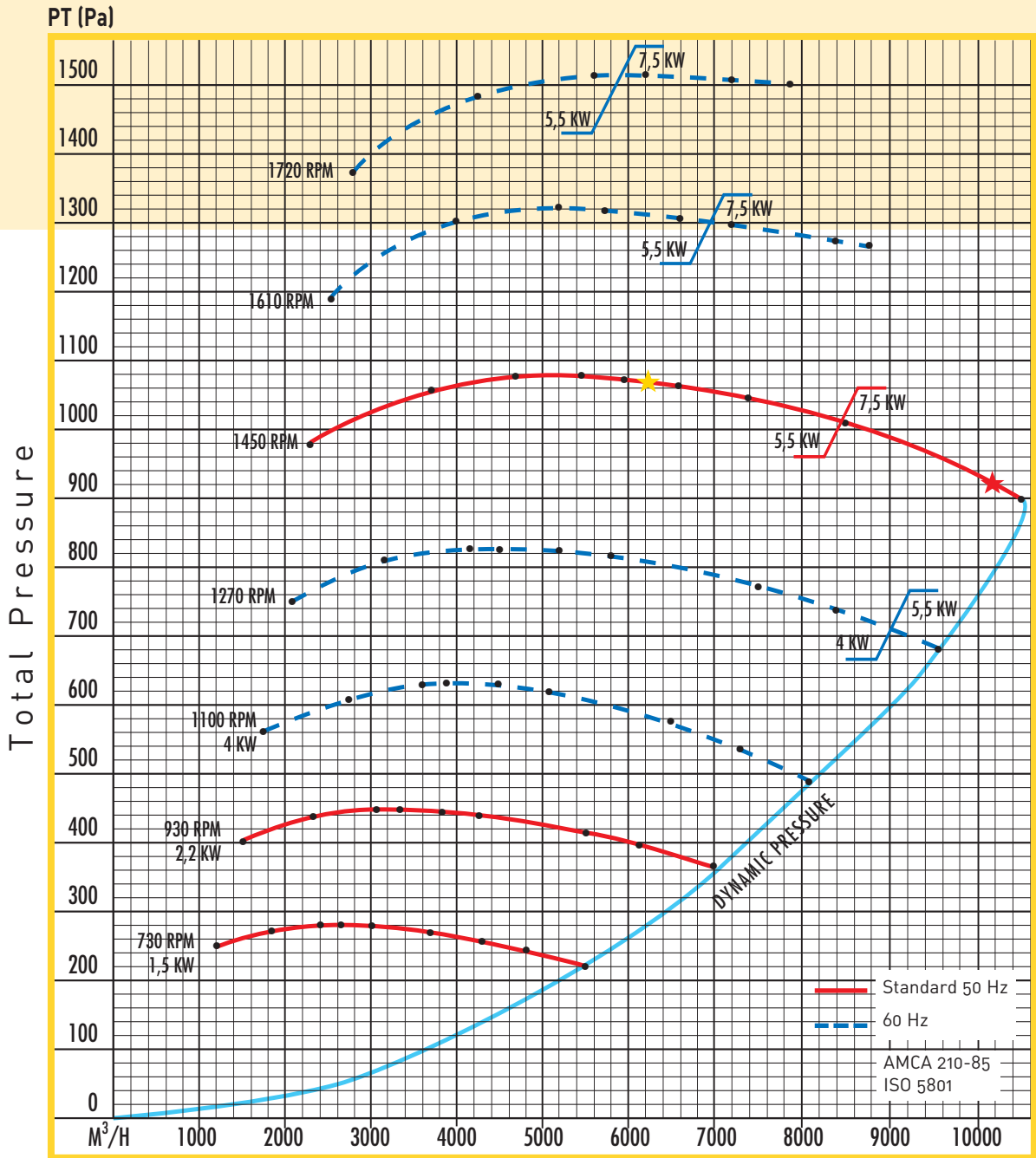


**RD 270**



**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





## SEACON ENGINEERING EQUIPMENTS PTE. LTD

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Engineering Drawing

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