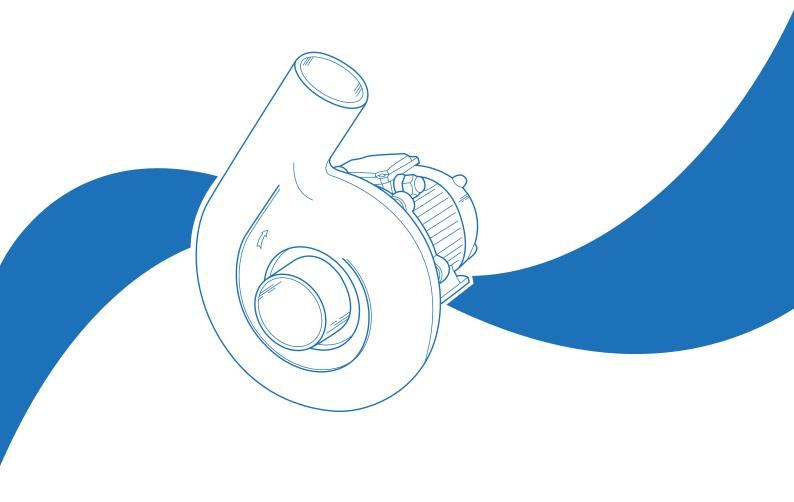
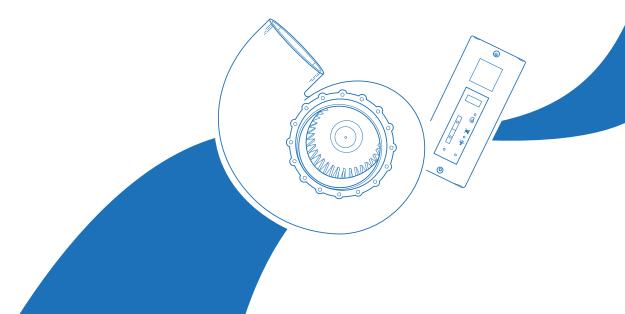


# **Corrosion Resistant Fans & Controllers**

Laboratory & Industrial Fume Extraction





# CORROSION RESISTANT POLYPROPYLENE FANS FROM AXAIR FANS UK

### **APPLICATION KNOWLEDGE**

Over 25 years of experience in general air movement; including corrosive, explosive and hot fume handling.

### **PLASTIC RANGE: CORROSION RESISTANT**

- 10 basic sizes of fan with single piece moulded, high density polypropylene casing.
- Industry standard round spigot sizes.
- Compact design, easy assembly and direct driven motors.

### **STOCK FACILITY**

Vast selection of fans, fan components, general accessories and controllers.

## **CUSTOMISED BUILD**

Fans assembled to order from stock components to create the perfect mechanical and electrical solution for you fume extract installation.

### **CUSTOMER CARE**

Experience our customer service from enquiry through to delivery and after sales support.

# AXAIR OFFERS YOU A WIDE RANGE OF ELECTRICAL OPTIONS INCLUDING:

- 230V or 115V single phase motor
- 230/400V three phase direct-on-line or inverter supplied motor
- 400/690V three phase star-delta connection in larger sizes
- Pre-wired electrical isolators
- Motor starters
- Inverter drives
- Fume cupboard alarms
- ATEX motors

# AXAIR OFFERS YOU A WIDE RANGE OF MECHANICAL OPTIONS INCLUDING:

- Choice of handling
- Choice of standard weather pedestals
- Anti-vibration mountings
- Flexible connectors
- Flange pairs
- Dust transformations
- Manual dampers
- Drain hose connectors
- ATEX polypropylene/carbon fans

# **#MORETHANJUSTAFANSUPPLIER**





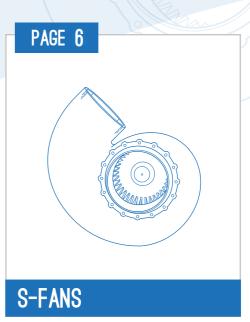


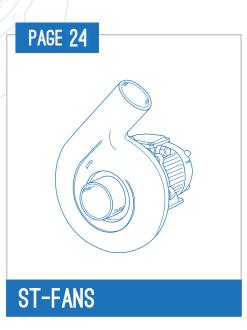


Axair Fans has over 25 years' experience in air movement and specialises in polypropylene moulded construction fans, designed to extract and resist the widest range of corrosive fumes in laboratory and industrial extraction.

# CONTENTS

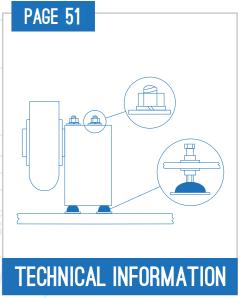










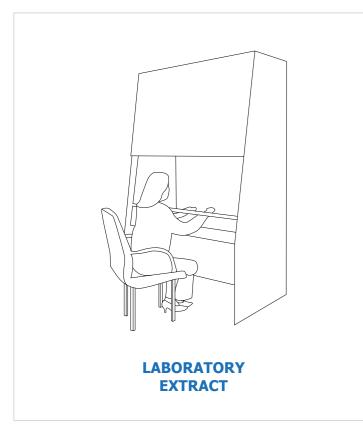




For technical information, advice on fan selection or to see our full range of fans and fan accessories in addition to our polypropylene range, visit our website.

WWW.AXAIR-FANS.CO.UK

# **APPLICATIONS**









# MOTORS & ACCESSORIES



# **MOTORS**

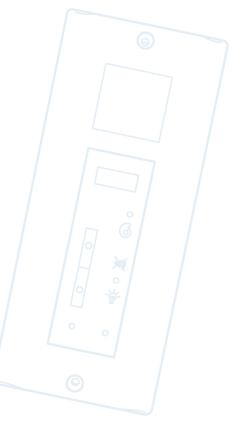
All polypropylene fans are directly driven by IEC dimensioned electric motors manufactured to BSN4999-EN60034 Standards and are selected on their capacity for:

- Low electro-magnetic vibration
- Dimensional compactness
- Inverter drive compatibility
- Electrical terminal accessibility
- IP55 dust and hosed water protection
- Integrity of surface finish

# **ACCESSORIES**

To integrate the fan into your installation, we offer the following accessories:-

- Mechanical isolation of the fan from the ductwork by means of chemical resistant flexible duct connectors, attached by quick-release stainless steel band clips.
- Mechanical isolation of the fan from the motor pedestal or base by means of rubber anti vibration mountings of the correct hardness and compression.
- Flange pairs with sockets to fit standard plastic ductwork. These can provide an easy method of disconnecting the fan stack in situations where a flexible connector is impractical.
- Pre-wiring of electrical isolators to the motor terminal to ensure first class electrical work in factory conditions and an isolator on the fan pedestal.
- Fume cupboard 'low air' alarms and air speed controls that are modern, sophisticated products requiring no special training to install and commission.

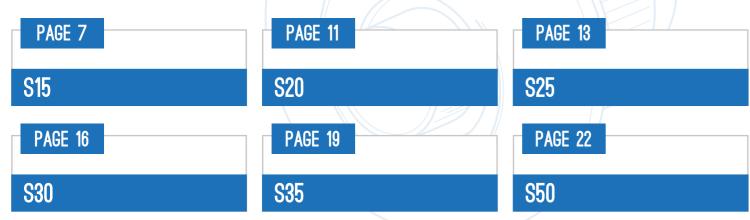


# **AXAIR 'S' FANS**

The Axair 'S' range fans are designed to provide high air flow rate against medium system pressures; typical applications being the extract of corrosive fumes from laboratory fume cupboards and industrial process tanks.



# **OUR S FAN RANGE**



# **ELECTRICAL DATA**

ELECTRIC	AL DATA			SINGLE PH	HASE			THREE PHASE		
Model	/min	kW	Motor	V	A (full load)	A (start)		V	A (full load)	A (start)
S15/2	2870	0,37	71-2	230	2,8	7		400	1,2	6
S15/4	1450	0,25	71-4	230	2,0	5		400	1,0	5
S20/2L	2870	0,55	71-2	230	3,8	9		400	1,5	7
S20/2M	2870	0,75	80-2	230	5,1	14		400	1,8	10
S20/2H	2870	1,10	80-2	230	7,0	19		400	2,5	14
S20/4	1450	0,25	71-4	230	2,0	5		400	1,0	5
S20/6	930	0,18	71-6	230	1,9	5		400	0,9	2,5
S25/2L	2870	1,50	90S-2	230	10,8	28		400	3,7	20
S25/2M	2870	2,20	90L-2	230	14,6	63		400	5,1	34
S25/2H	2870	3,00	90L-2				Ì	400	6,9	49
S25/4	1450	0,37	71-4	230	3,4	8		400	1,2	5
S25/6	930	0,18	71-6	230	1,9	5		400	0,9	2,5
S30/4	1450	1,50	90L-4	230	10,5	28		400	3,7	20
S30/4L	1450	0,75	90-4	230	4,9	27		400	2,2	10
S30/6	930	0,75	90S-6	230	4,8	16		400	2,2	8,0
S35/4	1450	4,00	112M-4					400	8,26Y	58Y
S35/4M	1450	5,50	112M-4				İ	400	11,4∆	*75A
S35/6	930	2,20	112M-4				Ì	400	5.3Y	24Y

Notes: Tabulated current values are approximate and depend on the make and model of each motor.

Size the wiring with a built-in safety factor. Set current overload protection to A (Full Load)

A (Full Load) = Motor full load current - to select wiring and current overload protection.

A (Start) = Motor starting current - mainly advisory for motors with Y/∆ facility.

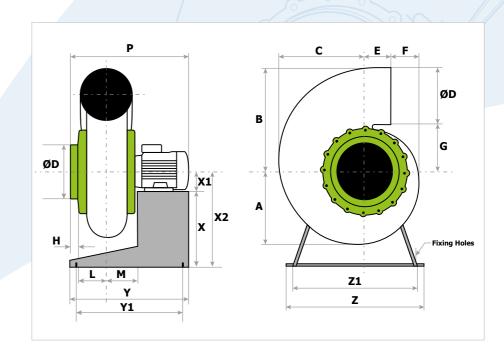
To obtain 230V 3phase current multiply 400V (Full Load) by 1,732.

\* ∆ Connected 400V direct-on-line. Y/∆ switching reduces starting current to 1/3 x A (Start).

ATEX versions are available on request, please contact us.

# S15 / 125 / METAL PEDESTAL

The fan shown is mounted on a metal pedestal but is also available with a weather protecting box pedestal. Motor dimensions will vary according to source.



## **HOUSING DIMENSIONS**

Fan	ØD	Α	В	C	E	F	G	Н	L	M	P	Y	<b>Y1</b>	Z	<b>Z</b> 1
<b>S15</b>	125	170	240	203	100	32	115	30	70	80	380	350	250	410	350

# PEDESTAL DIMENSIONS

Fan – Motor Size	Motor	X	X1	X2
S15 - all sizes	'71' frame	300	71	371

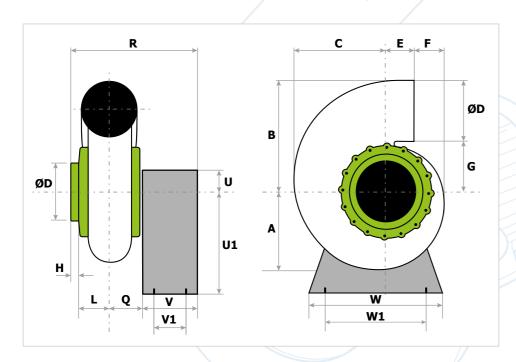
Available handing & orientation viewed on air inlet



ATEX versions are available on request, please contact us.

# **S15 / 125 / BOX PEDESTAL**

The fan shown is mounted on a weather protecting box pedestal but is also available mounted on a metal pedestal. Motor dimensions will vary according to source.



## **HOUSING DIMENSIONS**

Fan										
<b>S15</b>	125	170	240	203	100	32	115	30	70	80

# **PEDESTAL DIMENSIONS**

Fan - Motor Rating	Motor	R	U1	U2	V	V1	W	W1
S15 – 0,37-2 & 0,25-4	'71' Frame	530	81	369	340	267	410	318

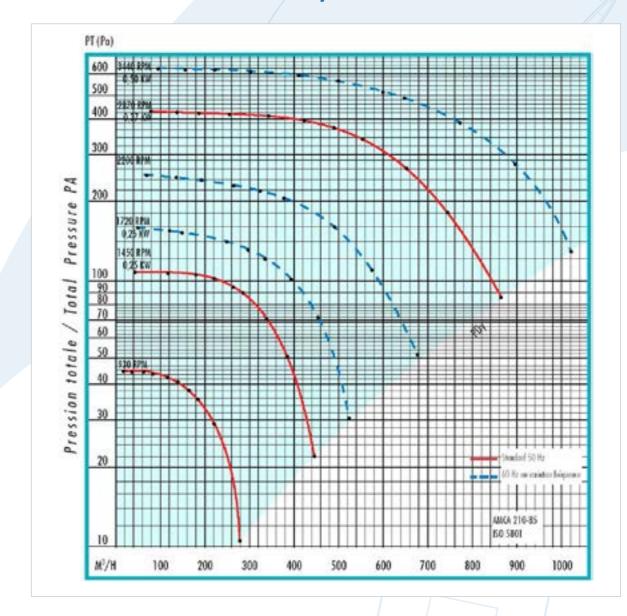
Fans shown above are also available on metal pedestals for indoor installations.

Available handing & orientation viewed on air inlet



ATEX versions are available on request, please contact us.

# S15 / 125



# **ELECTRICAL DATA**

Model	Motor	Supply	Full load	Start	Supply	Full load	Start		stal & Fan nt (Kg)	Metal Pedestal & Fan Weight (Kg)		
								1 Phase	3 Phase	1 Phase	3 Phase	
S15/4	0,25kW	230/1/50	2,0A	5A	400/3/50	1,0A	5A	11	9	16	15	
S15/2	0,37kW	230/1/50	2,8A	7A	400/3/50	1,2A	6A	11	9	16	15	

### **SOUND DATA**

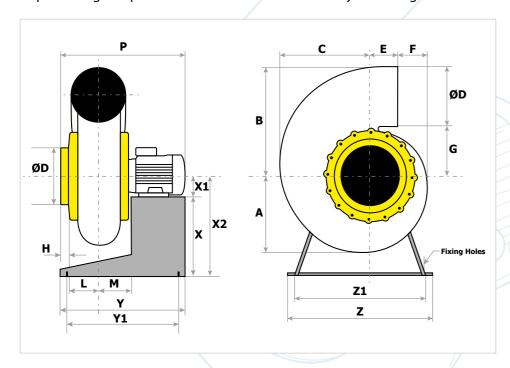
/min	dB(A)	63	125	250	500	1000	2000	4000	8000	Hz
1450	58	39	52	60	64	64	60	56	48	dB(A)
2870	75	56	69	77	81	81	77	73	65	dB(A)

SOUND POWER (Lw) in dB(A) SOUND PRESSURE at 3m range in dB(A)

ATEX versions are available on request, please contact us.

Maximum airflow temperature 50°C

The fan shown is mounted on a metal pedestal but is also available with a weather protecting box pedestal. Motor dimensions will vary according to source.



## **HOUSING DIMENSIONS**

Fan	ØD	Α	В	C	E	F	G	H	L	M	Р	Y	Y1	Z	<b>Z</b> 1
<b>S20</b>	160	208	303	240	100	57	143	32	84	94	410	350	250	410	350

### **PEDESTAL DIMENSIONS**

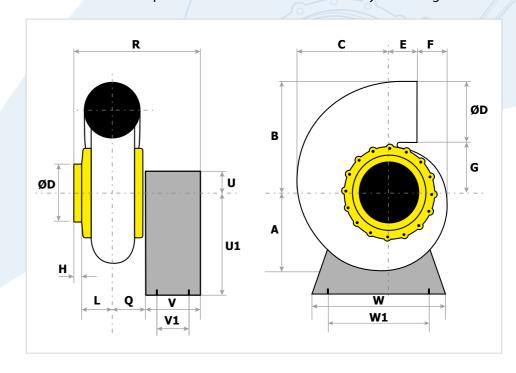
Fan – Motor Size	Motor	Х	X1	X2
S20 - 0,25kW & 0,55kW	'71' frame	300	71	371
S20 - 0,75kW & 1,1kW	'80' frame	300	80	380

Available handing & orientation viewed on air inlet



# **S20 / 160 / BOX PEDESTAL**

The fan shown is mounted on a weather protecting box pedestal but is also available mounted on a metal pedestal. Motor dimensions will vary according to source.



# **HOUSING DIMENSIONS**

										Q
<b>S20</b>	160	208	303	240	100	57	143	32	84	90

### PEDESTAL DIMENSIONS

Fan - Motor Rating	Motor	R	U1	U2	٧	V1	W	W1
S20 – 0,25 & 0,55	'71' frame	552	81	369	340	267	410	318
S20 – 0,75 & 1,10	*When '71'	552	81	369	340	267	410	318
S20 – 0,75 & 1,10	*When '80'	552	90	360	340	267	410	318

Fans shown above are also available on metal pedestals for indoor installations.

\* Choice depends on the make and model selected

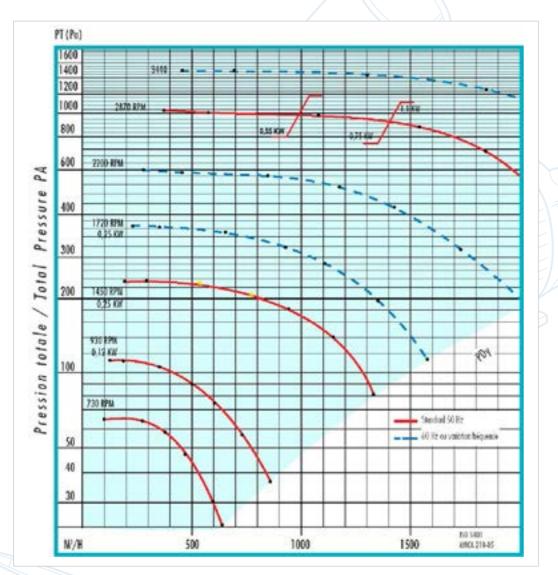
Available handing & orientation viewed on air inlet



ATEX versions are available on request, please contact us.

ATEX versions are available on request, please contact us.

# S20 / 160



# **ELECTRICAL DATA**

Model	Motor	Supply	Full load	Start	Supply	Full load	Start		stal & Fan nt (Kg)		estal & Fan nt (Kg)
								1 Phase	3 Phase	1 Phase	3 Phase
S20/4	0,25kW	230/1/150	2A	5A	400/3/50	1A	5A	11	10	17	15
S20/2L	0,50kW	230/1/150	3,8A	9A	400/3/50	1,5A	7A	12	10	18	16
S20/2M	0,75kW	230/1/150	5,1A	14A	400/3/50	1,8A	10A	15	12	19	17
S20/2H	1,1kW	230/1/150	7A	19A	400/3/50	2,5A	14A	16	13	21	20

## **SOUND DATA**

/min	dB(A)	63	125	250	500	1000	2000	4000	8000	Hz
1450	65	46	59	67	71	71	67	63	55	dB(A)
2870	81	62	75	83	87	87	83	79	71	dB(A)

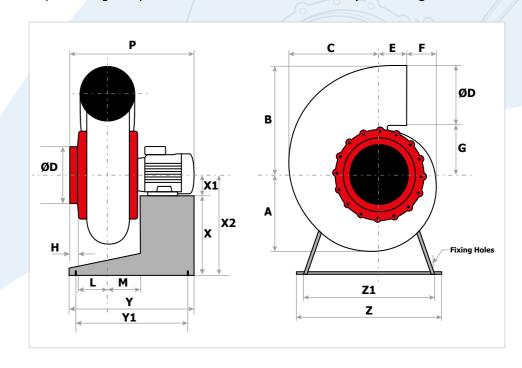
SOUND POWER (Lw) in dB(A)
SOUND PRESSURE at 3m range in dB(A)

ATEX versions are available on request, please contact us.

Maximum airflow temperature 50°C

# S25 / 200 / METAL PEDESTAL

The fan shown is mounted on a metal pedestal but is also available with a weather protecting box pedestal. Motor dimensions will vary according to source.



# **HOUSING DIMENSIONS**

Fan										
S25	200	248	365	310	103	92	164	35	95	105

# PEDESTAL DIMENSIONS

Fan – Motor Size	Motor	X	X1	Х2	Р	Y	Y1	Z	<b>Z</b> 1
S25 - 0,37kW	'71' frame	450	71	521	465	465	360	475	410
S25 - 1,5kW, 2,2kW & 3kW	'90' frame	450	90	540	465	465	360	475	410

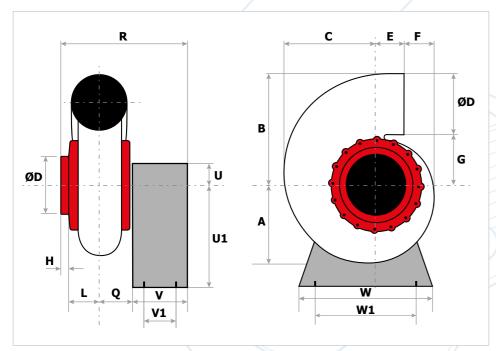
Available handing & orientation viewed on air inlet



ATEX versions are available on request, please contact us.

# **S25 / 200 / BOX PEDESTAL**

The fan shown is mounted on a weather protecting box pedestal but is also available mounted on a metal pedestal. Motor dimensions will vary according to source.



## **HOUSING DIMENSIONS**

Fan									
<b>S25</b>	200	248	365	310	103	92	165	35	95

# **PEDESTAL DIMENSIONS**

Fan – Motor Rating	Motor	R	U1	U2	V	V1	W	W1	Q
S25 - 0,37 - 4	'71' frame	580	81	369	340	267	410	318	100
S25 - 1,5, 2,2 & 3,0 - 2	'90' frame	610	95	455	340	267	405	330	115

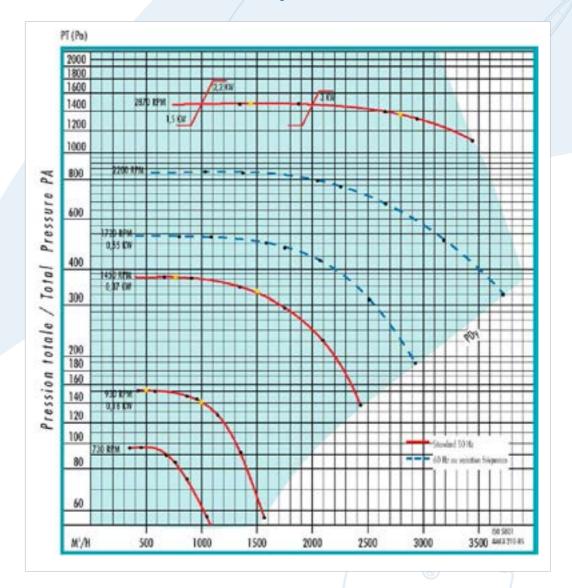
Fans shown above are also available on metal pedestals for indoor installations.

Available handing & orientation viewed on air inlet



ATEX versions are available on request, please contact us.

# S25 / 200



# **ELECTRICAL DATA**

Model	Motor	Supply	Full load	Start	Supply	Full load	Start		stal & Fan nt (Kg)		estal & Fan nt (Kg)
								1 Phase	3 Phase	1 Phase	3 Phase
S25/4	0,37 kW	230/1/50	3,4A	8A	400/3/50	1,2A	5A	14	11	22	20
S25/2L	1,50 kW	230/1/50	10,8A	28A	400/3/50	3,7A	20A	26	22	30	27
S25/2M	2,20 kW	230/1/50	14,6A	63A	400/3/50	5,1A	34A	28	25	32	30
S25/2H	3,00 kW				400/3/50	6,9A	49A	n/a	29	n/a	38

# **SOUND DATA**

/min	dB(A)	63	125	250	500	1000	2000	4000	8000	Hz
145 0	69	52	65	73	77	78	74	70	61	dB(A)
2870	87	70	83	91	95	96	92	88	79	dB(A)

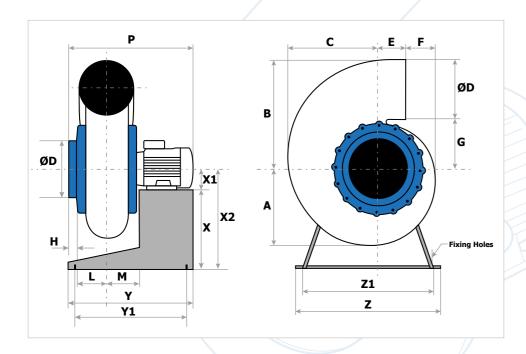
SOUND POWER (Lw) in dB(A)
SOUND PRESSURE at 3m range in dB(A)

Maximum airflow temperature 50°C

ATEX versions are available on request, please contact us.

# S30 / 250 / METAL PEDESTAL

The fan shown is mounted on a metal pedestal but is also available with a weather protecting box pedestal. Motor dimensions will vary according to source.



# **HOUSING DIMENSIONS**

Fan	ØD	A	В	C	E	F	G	Н	L	M	Y	Y1	Z	<b>Z</b> 1
<b>S30</b>	250	300	450	373	117	112	198	35	110	120	240	220	460	400

### **PEDESTAL DIMENSIONS**

Fan – Motor Size	Motor	Х	X1	X2	Р
S30 – all sizes	'90' frame	45	90	505	495

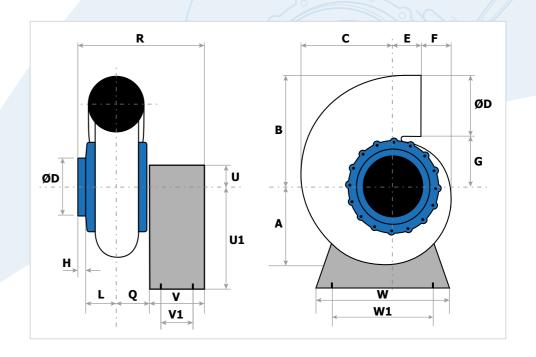
Available handing & orientation viewed on air inlet



# ATEX versions are available on request, please contact us.

# **S30 / 250 / BOX PEDESTAL**

The fan shown is mounted on a weather protecting box pedestal but is also available mounted on a metal pedestal. Motor dimensions will vary according to source.



## **HOUSING DIMENSIONS**

Fan										
<b>S30</b>	250	300	448	373	117	112	198	35	110	130

## PEDESTAL DIMENSIONS

Fan - Motor Rating	Motor	R	U1	U2	V	V1	W	W1
S30 - 0,75 & 1,5 - 4	'90' frame	630	95	455	340	267	405	315

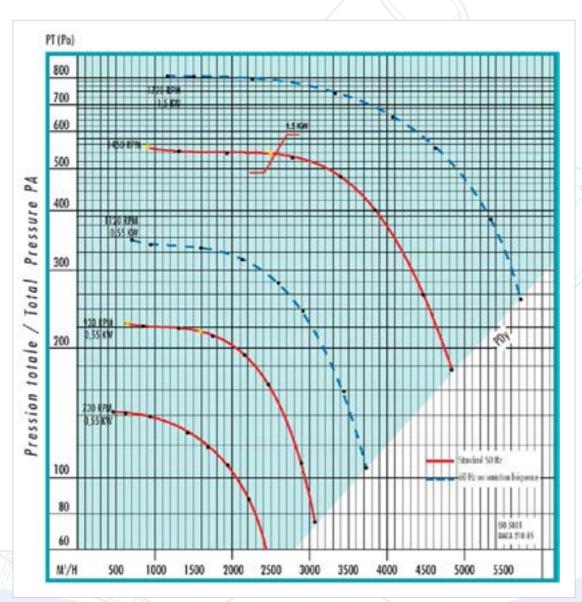
Fans shown above are also available on metal pedestals for indoor installations.

Available handing & orientation viewed on air inlet



ATEX versions are available on request, please contact us.

# S30 / 250



# **ELECTRICAL DATA**

Model	Motor	Supply	Full load	Start	Supply	Full load	Start		stal & Fan nt (Kg)	Metal Pedestal & Fan Weight (Kg)	
								1 Phase	3 Phase	1 Phase	3 Phase
S30/4	1,5kW	230/1/50	10,5A	28A	400/3/50	3,7A	20A	30	27	33	32
S30/4L	0,75kW	230/1/50	4,9A	27A	400/3/50	2,2A	10A	30	27	31	30
S30/6	0,75kW	230/1/50	4,8A	16A	400/3/50	2,2A	8A	30	27	31	30

# **SOUND DATA**

/min	dB(A)	63	125	250	500	1000	2000	4000	8000	Hz
930	63	48	61	69	73	74	70	66	57	dB(A)
1450	75	60	73	81	85	86	82	78	69	dB(A)

SOUND POWER (Lw) in dB(A) SOUND PRESSURE at 3m range in dB(A)

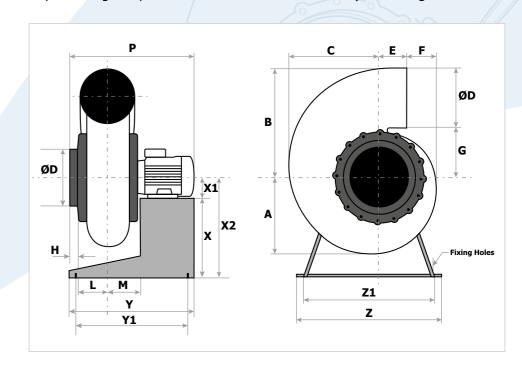
Maximum airflow temperature 50°C

ATEX versions are available on

request, please contact us.

# S35 / 315 / METAL PEDESTAL

The fan shown is mounted on a metal pedestal but is also available with a weather protecting box pedestal. Motor dimensions will vary according to source.



# **HOUSING DIMENSIONS**

Fan	ØD	A	В	C	E	F	G	Н	L	M	Y	<b>Y1</b>	Z	<b>Z</b> 1
<b>S35</b>	315	370	570	450	130	170	255	60	150	170	350	314	600	540

# PEDESTAL DIMENSIONS

Fan – Motor Size	Motor	X	X1	X2	Р
S35 - 4kW, 5,5kW & 2,2kW	'112' frame	468	112	580	724
S35 - 7,5kW	'132' frame	468	132	600	822

Available handing & orientation viewed on air inlet

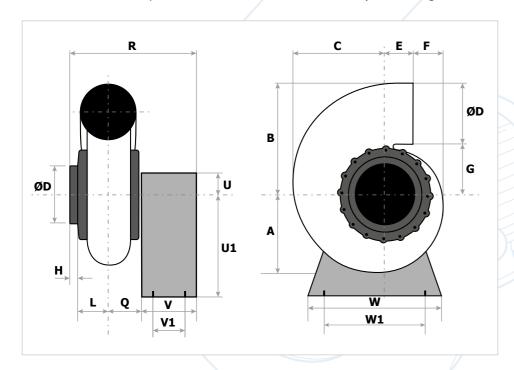


ATEX versions are available on request, please contact us.

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# **S35 / 315 / BOX PEDESTAL**

The fan shown is mounted on a weather protecting box pedestal but is also available mounted on a metal pedestal. Motor dimensions will vary according to source.



# **HOUSING DIMENSIONS**

Fan										
S35	315	370	570	450	130	170	255	60	150	180

# **PEDESTAL DIMENSIONS**

Fan - Motor Rating	Motor	R	U1	U2	V	V1	W	W1
S35 - 4kW, 5.5kW & 2.2kW	'112' frame	880	122	578	500	400	585	480

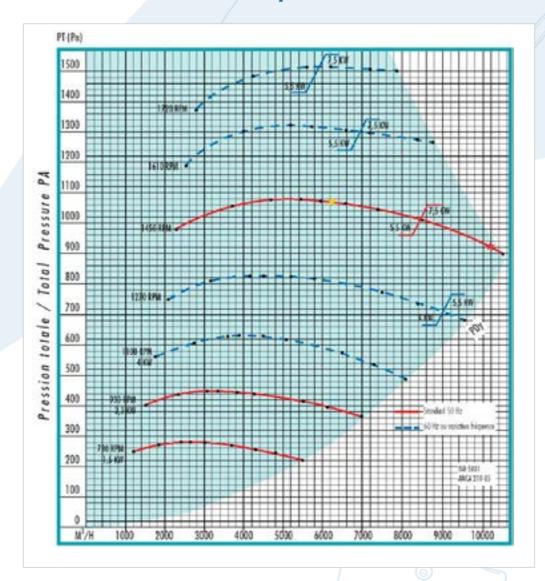
Fans shown above are also available on metal pedestals for indoor installations.

Available handing & orientation viewed on air inlet



ATEX versions are available on request, please contact us.

# S35 / 315



## **ELECTRICAL DATA**

Model	Motor	Supply	Full load	Start	Box Pedestal & Fan Weight (Kg) 3 Phase Only	Metal Pedestal & Fan Weight (Kg) 3 Phase Only
S35/6	2,2kW-930/min	400/3/50	5,3A	24A	60	55
S35/4L	4,kW-1450/min	400/3/50	11,4A	75A	65	65
S35/4M	5,5kW-1450/min	400/3/50	11,4A	75A	65	65
S35/4H	7,5kW-1450/min	400/3/50	14,7A	96A	102	80

# **SOUND DATA**

/min	dB(A)	63	125	250	500	1000	2000	4000	8000	Hz
930 - 2,2kW	75	71	81	83	86	85	85	83	74	dB(A)
1450 - 4kW, 5,5kW	79	75	85	87	90	89	89	87	78	dB(A)

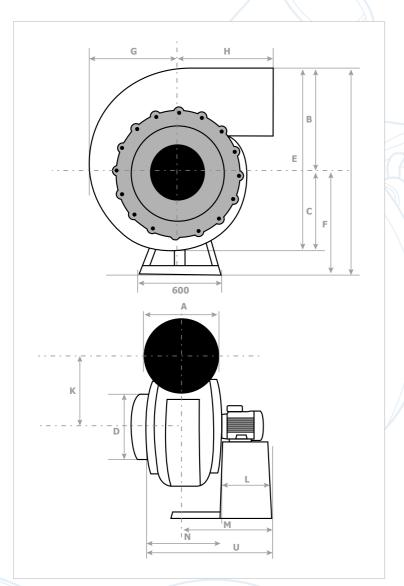
SOUND POWER (Lw) in dB(A)
SOUND PRESSURE at 3m range in dB(A)

ATEX versions are available on request, please contact us.

Maximum airflow temperature 50°C

Axair Fans UK Limited | 01782 349430 | sales@axair-fans.co.uk | www.axair-fans.co.uk

**S 50** 



# **DIMENSIONS - METAL PEDESTAL INCLUDED**

A	D	В	C	E	F	G	Н	-1	LG90	K+F	K	L	M	N	U
500	600	765	550	1315	740	660	610	1350	1505	1255	515	400	715	620	1020

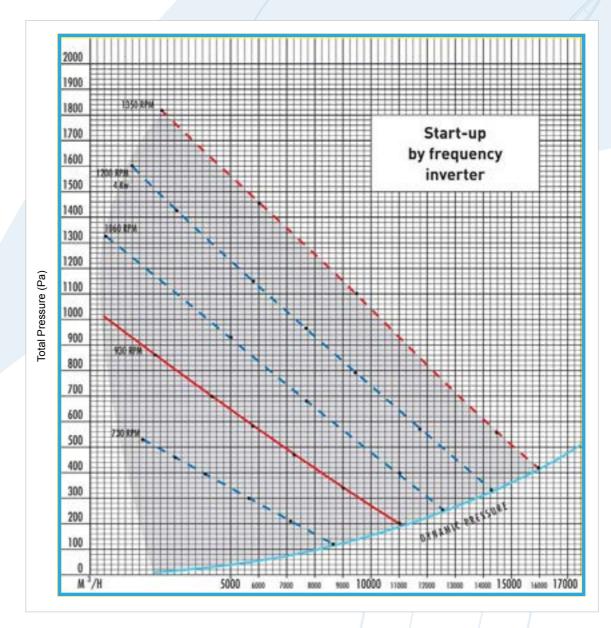
Available handing & orientation viewed on air inlet



The S50 is only available with a metal pedestal

ATEX versions are available on request, please contact us.

# **S 50**



# **ELECTRICAL DATA**

Model	Motor	Supply	Full load	Start	Weight (Kg) 3 Phase Only
S50	5,5kW - 1450/min	400/3/50	11,4A	75A	215

# SOUND DATA

/min	dB(A)	63	125	250	500	1000	2000	4000	8000	Hz
930 - 2,2kW	75	71	81	83	86	85	85	83	74	dB(A)
1450 - 4kW, 5,5kW	79	75	85	87	90	89	89	87	78	dB(A)

SOUND POWER (Lw) in dB(A)
SOUND PRESSURE at 3m range in dB(A)

ATEX versions are available on request, please contact us.

Maximum airflow temperature 50°C

# **AXAIR STORM 'ST' FANS**

STORM 'ST' range fans are designed to provide a relatively low air flow rate against elevated system pressures; typical applications being air filtration, local extraction arms, fume scrubbers and chemical stores.



# **OUR ST FAN RANGE**

PAGE 25

ST10

PAGE 28

**ST12** 

PAGE 31

**ST14** 

PAGE 34

ST16

ELECTRICA	L DATA			SINGLE PHA	SE		THREE PHASE		
Model	/min	kW	Motor	V	A (full load)	A (start)	V	A (full load)	A (start)
ST10/2	2870	0,12	56-2	230	1,4	2	400	0,5	6
ST10/4	1450	0,09	56-4	230	1,0	1,5	400	0,4	1
ST10/2/1E	1450	0,07	ERM (1)	230	0,11				
ST12/2	2870	0,37	71-2	230	2,8	7	400	1,2	6
ST12/4	1450	0,25	71-4	230	2,0	5	400	1,0	5
ST14/2	2870	1,10	80-2	230	7,0	19	400	2,5	14
ST16/2	2870	2,20	90L-2	230	14,6	63	400	5	34

Notes: Tabulated current values are approximate and depend on the make and model of each motor.

Size the wiring with a built-in safety factor. Set current overload protection to A (Full Load)

A (Full Load) = Motor full load current - to select wiring and current overload protection.

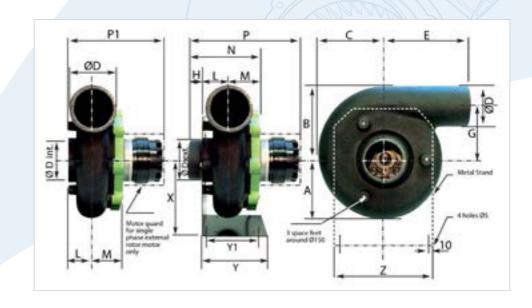
A (Start) = Motor starting current - mainly advisory for motors with Y/∆ facility.

To obtain 230V 3phase current multiply 400V (Full Load) by 1,732.

ATEX versions are available on request, please contact us.

# ST10 / 75 / METAL PEDESTAL

The fan shown has an external rotor motor. Also available with a standard induction motor. Motor dimensions will vary according to source.



# **HOUSING DIMENSIONS**

Fan														
ST10	75	115	135	127	158	97	32	48	57	137	120	100	165	135

P1	P	Motor type
173	205	Single phase 4 pole External rotor motor

Available handing & orientation viewed on air inlet

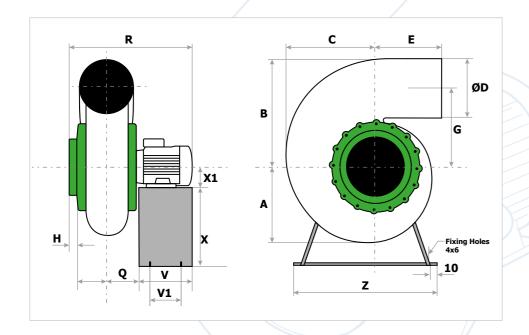


The ST10 is only available on a metal pedestal

ATEX versions are available on request, please contact us.

# ST10 / 75 / METAL PEDESTAL

The fan shown is mounted on a metal pedestal. Motor dimensions will vary according to source.



# **HOUSING DIMENSIONS**

Fan																	
ST10	75	115	135	127	158	97	32	48	57	137	285	350	250	260	56	56	112

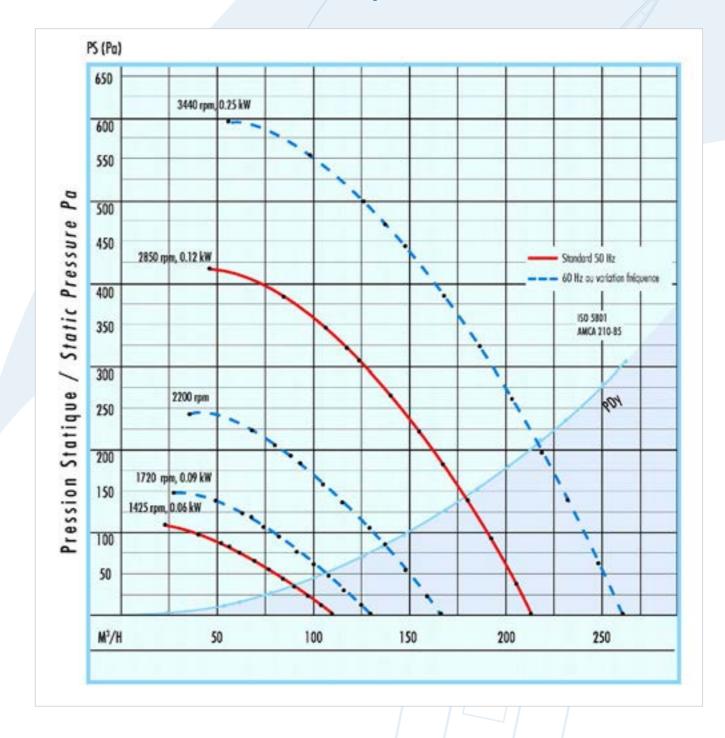
Available handing & orientation viewed on air inlet



ATEX versions are available on request, please contact us.

The ST10 is only available on a metal pedestal

# ST10 / 75



# **ELECTRICAL DATA**

Model	Motor	/min	Supply	Full Load	Start	Supply	Full Load	Start	Metal Pedestal & Fan Weight (Kg) 1 Phase	Metal Pedestal & Fan Weight (Kg) 3 Phase
ST10/2	0,12kW	2870	230/1/50	1,4A	2A	400/3/50	0,5A	6A	10	10
ST10/4	0,09kW	1450	230/1/50	1,0A	1,5A	400/3/50	0,4A	1A	10	10

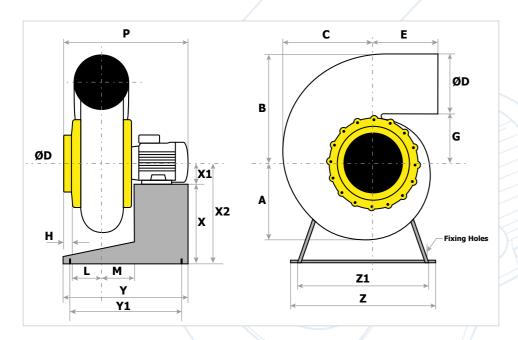
ATEX versions are available on request, please contact us.

Maximum airflow temperature 50°C

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# ST12 / 90 / METAL PEDESTAL

The fan shown is mounted on a metal pedestal but is also available with a weather protecting box pedestal. Motor dimensions will vary according to source.



## **HOUSING DIMENSIONS**

Fan	ØD	A	В	C	Е	G	Н	L	M	Р	Y	Y1	Z	<b>Z</b> 1	Х	X1	X2
ST12	90	145	175	163	212	130	45	35	72	380	350	250	410	350	300	71	371

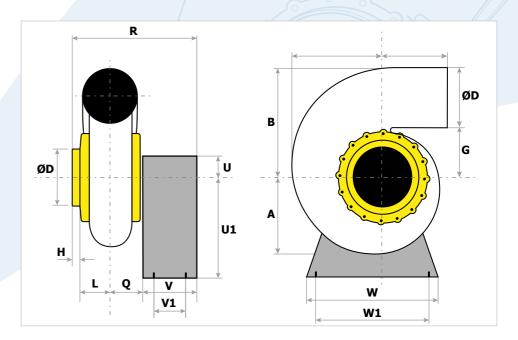
Available handing & orientation viewed on air inlet



ATEX versions are available on request, please contact us.

# ST12 / 90 / BOX PEDESTAL

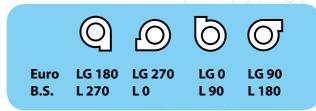
'ST' Fan fan shown is mounted on a weather protecting box pedestal but is also available mounted on a metal pedestal. Motor dimensions will vary according to source.



# **HOUSING DIMENSIONS**

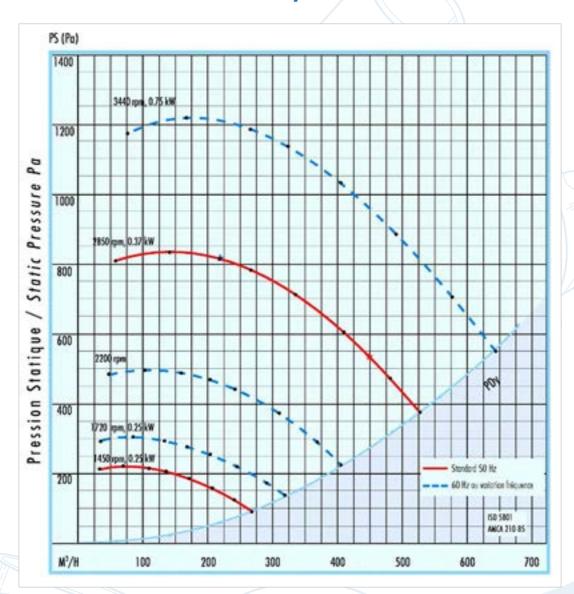
Model	ØD	Α	В	C	E	G	Н	L	Q	R	U1	U2	V	V1	W	W1
ST12	90	145	175	203	212	130	45	35	82	530	75	315	260	200	320	250

Available handing & orientation viewed on air inlet



ATEX versions are available on request, please contact us.

# ST12 / 90



# **ELECTRICAL DATA**

Model	Motor	Supply	Full load	Start	Supply	Full load	Start		stal & Fan nt (Kg)		estal & Fan nt (Kg)
								1 Phase	3 Phase	1 Phase	3 Phase
ST12/2	0,37kW	230/1/50	2,8A	7A	400/3/50	1,2A	6A	14	12	15	13
ST12/4	0,25kW	230/1/50	2A	5A	400/3/50	1A	5A	14	12	15	13

# **SOUND DATA**

/min	dB(A)	63	125	250	500	1000	2000	4000	8000	Hz
2870	75	56	69	77	81	81	77	73	65	dB(A)
*1450	70	52	65	73	77	77	74	70	71	dB(A)

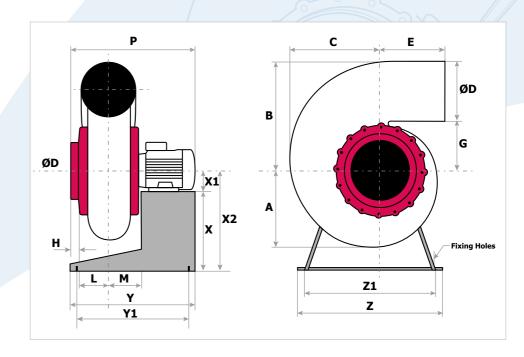
SOUND POWER (Lw) in dB(A)
SOUND PRESSURE at 3m range in dB(A)
\* Estimated figures

ATEX versions are available on request, please contact us.

Maximum airflow temperature 50°C

# ST14 / 125 / METAL PEDESTAL

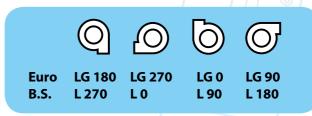
The fan shown is mounted on a metal pedestal but is also available with a weather protecting box pedestal. Motor dimensions will vary according to source.



## **HOUSING DIMENSIONS**

Fan	ØD	A	В	C	E	G	Н	L	M	Р	Y	Y1	Z	<b>Z</b> 1	X	X1	X2
ST14	125	188	232	227	218	170	55	55	83	393	350	250	410	350	300	80	380

Available handing & orientation viewed on air inlet

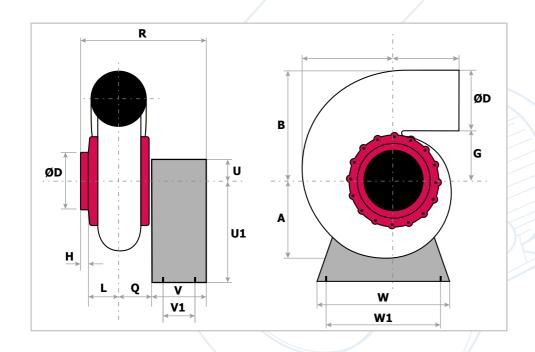


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# ST14 / 125 / BOX PEDESTAL

'ST' Fan fan shown is mounted on a weather protecting box pedestal but is also available mounted on a metal pedestal. Motor dimensions will vary according to source.



## **HOUSING DIMENSIONS**

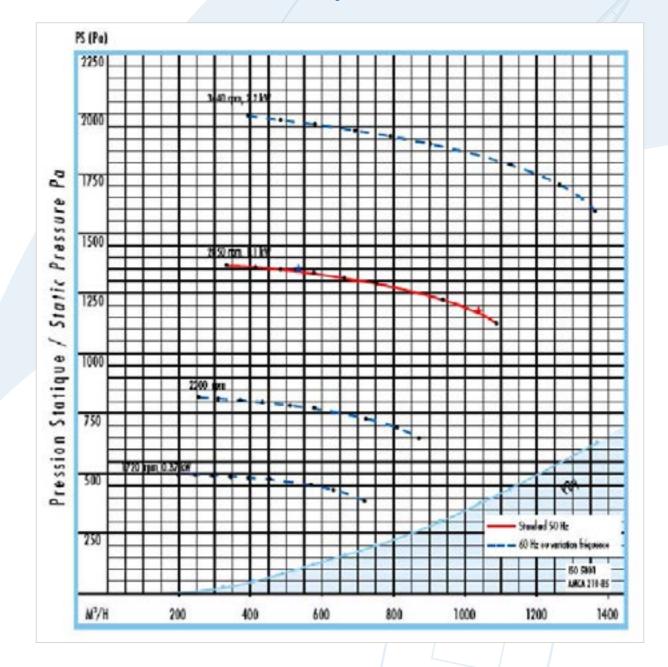
Model	ØD	A	В	C	E	G	Н	L	Q	R	U1	U2	V	V1	W	W1
ST14	125	188	232	227	218	170	55	55	93	463	85	365	260	200	330	260

Available handing & orientation viewed on air inlet



ATEX versions are available on request, please contact us.

# ST14 / 125



# **ELECTRICAL DATA**

Model	Motor	Supply	Full load	Start	Supply	Full load	Start	Box Pede: Weigh	stal & Fan it (Kg)		estal & Fan nt (Kg)
								1 Phase	3 Phase	1 Phase	3 Phase
ST14/2	1,1kW	230/1/50	7A	19A	400/3/50	2,5A	14A	21	19	19	17

# SOUND DATA

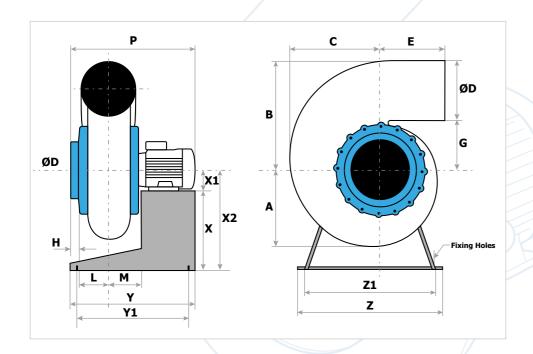
	dB(A)									
2870	79	60	73	81	85	85	81	77	69	dB(A)

SOUND POWER (Lw) in dB(A) SOUND PRESSURE at 3m range in dB(A)

ATEX versions are available on request, please contact us.

Maximum airflow temperature 50°C

The fan shown is mounted on a metal pedestal but is also available with a weather protecting box pedestal. Motor dimensions will vary according to source.



## **HOUSING DIMENSIONS**

Fan	ØD	A	В	C	E	G	Н	L	M	Р	Υ	Y1	Z	<b>Z</b> 1	X	X1	X2
ST16	160	235	288	278	262	205	40	60	97	465	465	360	475	415	450	90	540

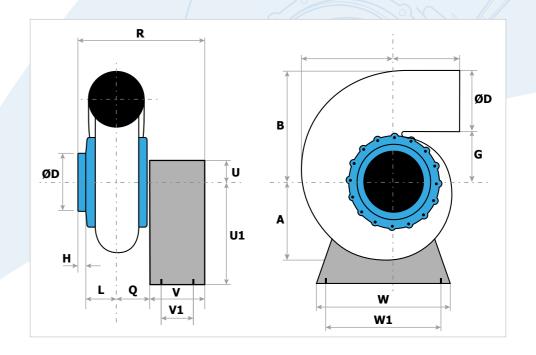
Available handing & orientation viewed on air inlet



ATEX versions are available on request, please contact us.

# ST16 / 160 / BOX PEDESTAL

'ST' Fan fan shown is mounted on a weather protecting box pedestal but is also available mounted on a metal pedestal. Motor dimensions will vary according to source.



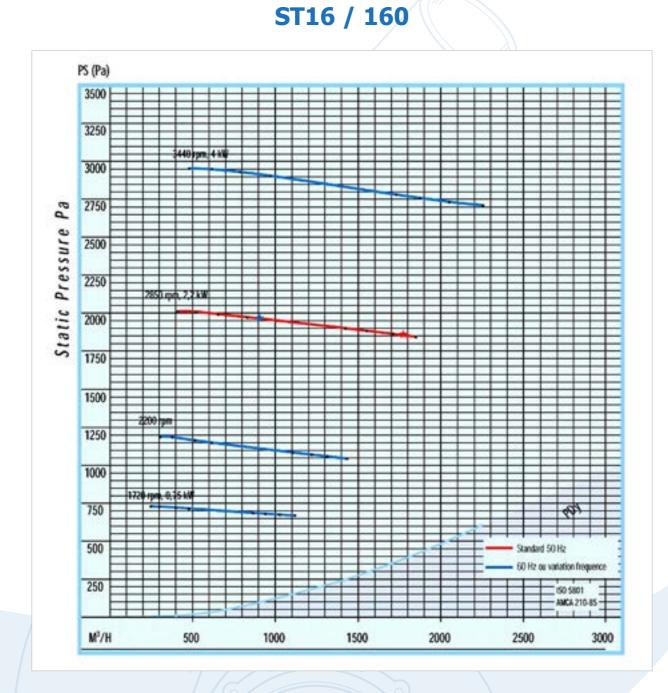
## **HOUSING DIMENSIONS**

Model	ØD	Α	В	C	E	G	Н	L	Q	R	U1	U2	V	V1	W	W1
ST16	160	235	288	278	262	205	40	60	107	572	95	455	365	300	400	330

Available handing & orientation viewed on air inlet



ATEX versions are available on request, please contact us.



# **ELECTRICAL DATA**

Model	Motor	Supply	Full load	Start	Supply	Full load	Start		stal & Fan nt (Kg)	Metal Pedestal & Fan Weight (Kg)	
								1 Phase	3 Phase	1 Phase	3 Phase
ST16/2	2,2kW	230/1/50	14,6A	63A	400/3/50	5A	34A	26	24	31	29

## **SOUND DATA**

/min	dB(A)	63	125	250	500	1000	2000	4000	8000	Hz
2870	84	65	78	86	90	90	86	82	74	dB(A)

SOUND POWER (Lw) in dB(A)
SOUND PRESSURE at 3m range in dB(A)

ATEX versions are available on request, please contact us.

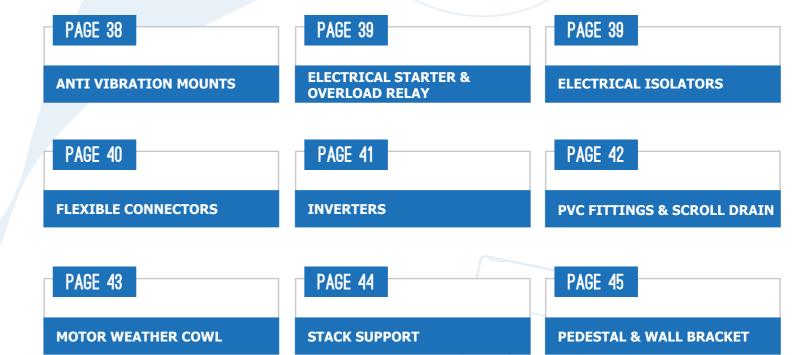
Maximum airflow temperature 50°C

# **ACCESSORIES**

To facilitate the effective installation of our corrosion resistant polypropylene fans, Axair supply a wide range of high quality accessories including AV mounts, starters, relays, inverters and weather cowls.

See the full range by using the guide below:

# **OUR ACCESSORIES RANGE**



# **ANTI-VIBRATION MOUNTINGS**





Axair Fans has a range of accessories to help make installation of our polypropylene fans easier.

Within our range of accessories we have two types of Anti Vibration mountings to suit fans on weather pedestals and metal pedestals. The weather pedestal mounts are designed to fit under the pedestal. The metal pedestal mounts are designed to fit between the pedestal and the feet of the electric motor.

They are available as a kit of parts which includes 4 Anti Vibration Mounts, bolts, nuts, washers and basic fitting instructions.

# WHY USE AV MOUNTS?

Our range of Anti vibration mounts are designed to isolate the fan from the mounting frame or floor and can be used with our 'S' and 'ST' ranges of fans. If you need any additional information please do not hesitate to contact the office.

These type of mounts may not be suitable for ATEX installations.

# AXOIR ME ME ME

Axair AVT kit



# **ELECTRICAL STARTER AND OVERLOAD RELAY**



As part of our accessories range we can offer a motor starter fitted with an overload relay.

Available as a remote type fitted with a reset button. This type is intended to work in conjunction with a switch sited away from the starter i.e in a fume cupboard.

We can also offer a starter with a start and stop button to be mounted near to the equipment. The starter would be supplied with the overload relay to suit the fan motor kW rating.

### WHY USE A STARTER AND RELAY?

Fitting a starter and an overload relay will help protect the motor from overloading. It works by measuring current drawn by the motor and will not allow it to go higher than the set current. If it does the overload will trip and then need to be reset.

# **ELECTRICAL ISOLATORS**



The electrical isolator we offer is prewired to the fan motor. It is to be sited as near to the fan as possible to allow the electrics to be shut off if attention is required on the fan or motor.

# **FLEXIBLE CONNECTORS**



Our flexible connectors are designed to fit the 'S' and 'ST' range of fans and suit both the fans inlet and discharge spigots.

There are two types of flexible connector in our range. The straight type which has the same connection size at both ends and the taper type which have different sizes at each end.

For details see our data sheets.

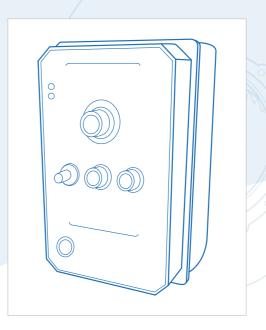


# WHY USE FLEXIBLE CONNECTORS?

Flexible connectors are supplied as a kit which includes one sleeve and two stainless steel fixing clips and basic fitting instructions.

Flexible connectors are designed to isolate the fan from the connecting ductwork. The tapered type may be used to match different diameters.

# **INVERTERS**



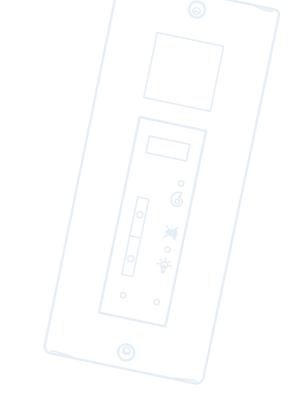
### WHY USE AN INVERTER?

Installing an inverter allows the user to control the speed of the fan motor to match the actual ventilation needs. Reducing the speed of a motor will reduce the amount of energy needed to power it, which in turn will cut your costs.

- Reduce strain on the motor and any related components.
- Lower maintenance therefore lower costs.
- Easier to stop the system when needed.
- Reduced energy consumption.



Axair flexible connector kit



# **PVC DUCT FITTINGS**











# WE HAVE THE FOLLOWING IN OUR RANGE:

- Gravity dampers also known as backdraft dampers.
   Only suitable for certain applications.
- Reducers or tapers to fit the inlet or discharge of the fan.
- Volume control dampers to help achieve the required duty.
- Socket flanges to fit the inlet or discharge of the fan.
- Scroll drain, to be fitted at the lowest point of the fan scroll to allow water to run away. Thread size 3/8" BSP, hose connection 12mm Ø. Fan housing predrilled and tapped to hose connector.

The above fittings are intended to help with the equipment needed to install the fan. All parts shown above are sized to connect to the fan.

# **MOTOR WEATHER COWL**

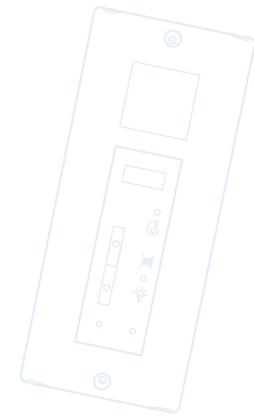


The motor cover or cowl is designed to provide increased weather protection for IP55 motors. It can be fitted to new fans from the factory or retro fitted to existing fans already on site.

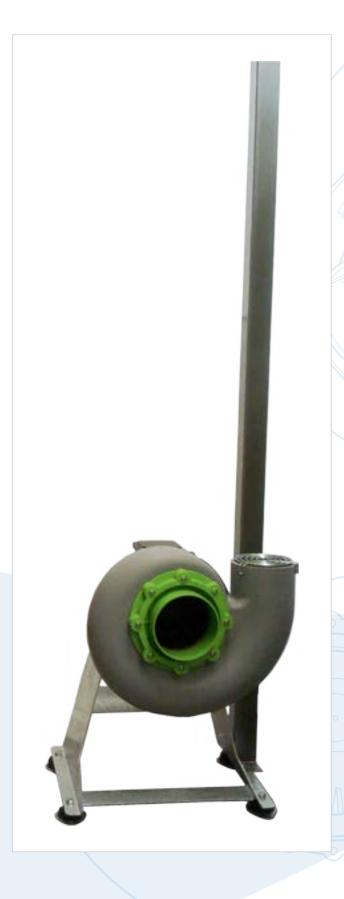
The cowl is offered as a motor shelter and is not intended to replace the successful weather protecting pedestal we have supplied for many years. It is offered as a rain cover to help protect the fan motor.

### **FEATURES OF THE WEATHER COWL**

- Mounts directly onto the pedestal
- Available in Three sizes
- Easy assembly
- Suitable for new or existing projects



# PEDESTAL AND WALL BRACKET

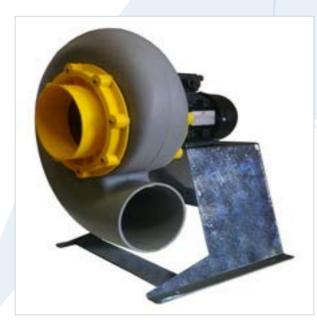


This galvanised steel stack support is designed to support the discharge stack and comes as three parts making it a versatile addition

## **FEATURES OF THE STACK SUPPORT**

- One size fits all
- Made to support the discharge stack to 1.5m
- Bolts straight onto the new pedestal
- Galvanised steel construction

# **METAL PEDESTAL**



## **FEATURES OF THE METAL PEDESTAL**

- Suitable for both indoor and outdoor installations
- Two sizes available
- 3mm thick galvanised folded mild steel
- Fixing holes for removable weather cowl

# **WALL BRACKET**



# **FEATURES OF THE METAL WALL BRACKET**

- Metal pedestal as above with an additional piece of sheet metal to create a flat base.
- Fixing holes

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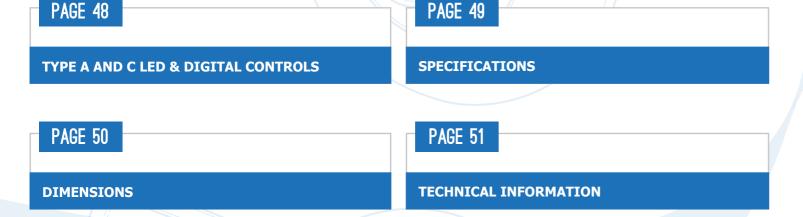


# LABORATORY AIRFLOW CONTROLS & MONITORS

### **EN 14-175 & ROHS COMPLIANT**

Fume cupboard standards recommend that an airflow indicator should be incorporated to show unambiguously, the correct functioning of the fume cupboard airflow. Axair Fans has a range of digital airflow controls to enable the user to easily check the system. We also supply airflow controls with alarms suitable for safety cabinets if required.

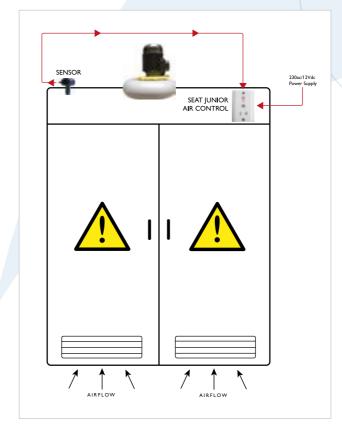
# **OUR RANGE LABORATORY OF AIRFLOW CONTROLS AND MONITORS**

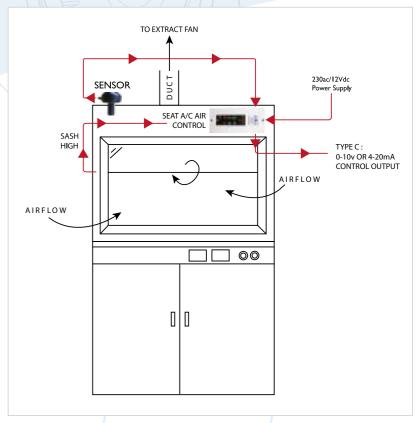


# **GENERAL DESCRIPTION**

Labair Airflow Controls and Monitors are for use with fume cupboards and chemical cabinets. Available in A and C versions, these range from a basic airflow alarm to an airflow sash high alarm. Version C includes a control output for extract and make up fans.

# SCHEMATIC DIAGRAMS AND OPERATING PRINCIPLES





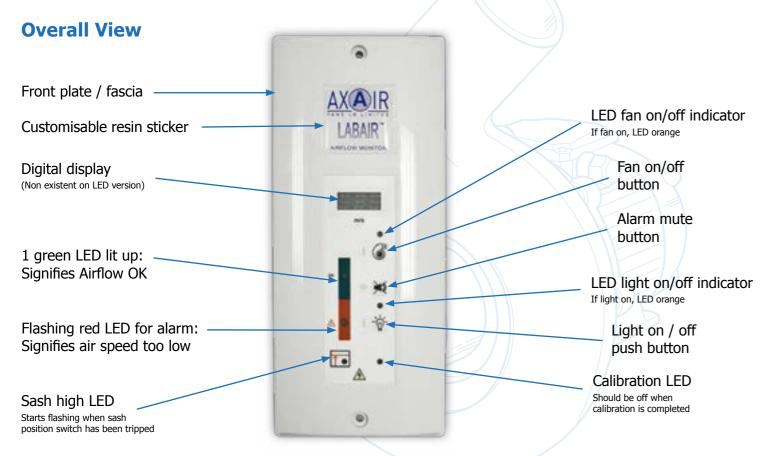
# WHY USE ON AIRFLOW CONTROL?

When the fume extract fan is running, it causes negative pressure inside the fume cupboard. If the sash is lowered, the negative pressure increases causing air to be drawn faster through the sash opening. Conversely, if the sash is raised the negative pressure reduces and air velocity reduces.

The Labair sensor detects this change in velocity and sends a signal to the control which is used to produce a visual indication of velocity through the sash.

Labair A and C give both a visual and audible alarm for low velocity whilst the Labair C can also send a signal to the fan speed controller to maintain a constant velocity, irrespective of the sash height.

# **TYPE A AND C LED & DIGITAL CONTROLS**



# **BENEFITS**

### A Series Controller

- All in one/multifunctional unit
- · Fast and simple installation
- Attractive design

## **FEATURES**

- Audible alarm and led visual
- Digital display of air velocity in meter per second (m/s) or feet per minute (digital version only)
- 3 push buttons: fan on/off, light on/off & alarm mute
- Factory precalibrated
- High precision numerical airflow sensor
- Sash high contact
- Alarm relay, battery back up optional
- Available in vertical or horizontal configuration (version A/LED only)
- White colour

# **OPTIONS**

- Surface Box mounting: Plastic enclosure to mount the face plate and to avoid profile cutting the service panel
- Alarm Relay: A remote alarm can be triggered from a relay on the controller pcb

### C Series Controller

- Energy savings :only the lowest amount of air is exhausted
- User confort: low air speeds ensures reduced noise level
- Flexibility: fan speed can be adjusted at any moment
- Simple wiring: the VAV system and inverter derive their power from 230V single phase
- Audible alarm and led visual
- VAV control system to inverter or damper
- Digital display of air velocity in meter per second (m/s) or feet per minute (digital version only)
- 3 push buttons: fan on/off, light on/off & alarm mute
- Factory precalibrated
- High precision numerical airflow sensor
- Sash high contact
- Alarm relay, battery back up optional
- Available in vertical or horizontal configuration (version A/LED only)
  - White color

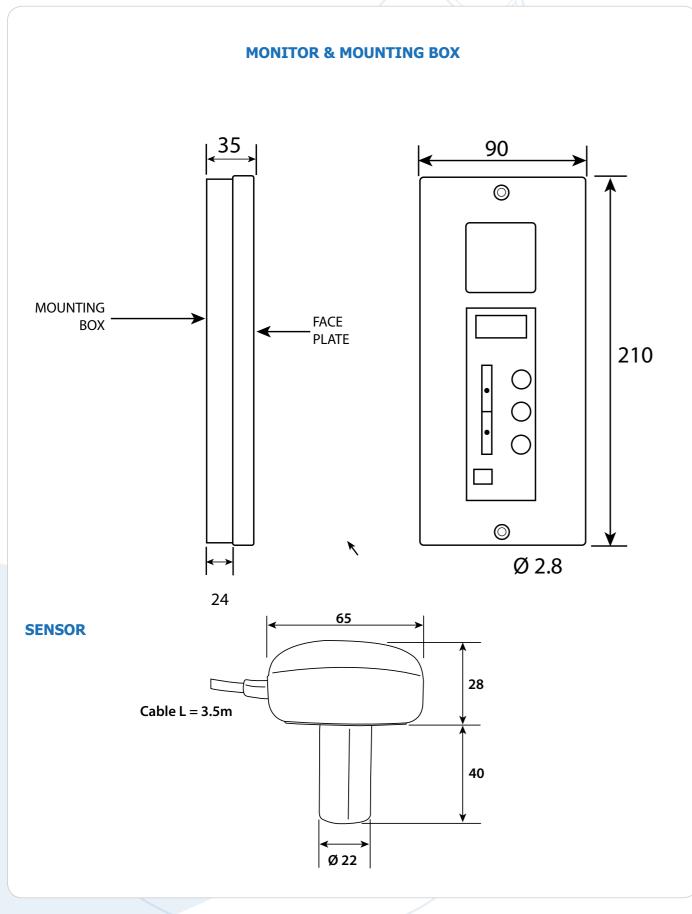
### Battery Back up: Red LED alarm is still functional up to 12 hours when unit loses power

Custom resin stickers: Customisable resin stickers with logo, address, etc.

# **SPECIFICATIONS**

	AirContro	l Standard	AirControl Digital			
	AirContro	i Stanuaru	Aircontrol Digital			
Part Number	A: 819700	C: 819703	A: 819701	C: 819704		
Display-Visual	1 Red LED flas	or right air speed shing for alarm al display	1 Green LED for right air speed 1 Red LED flashing for alarm 3 digit display with velocity reading			
Units	N	//A	meter per second (m/s)  0 - 2.00 m/s  Standard: below 0.39m/s  Selectable: 15s or 30s			
Display Range	N	//A				
Alarm Setpoint	Standard : b	elow 0.39m/s				
Alarm Delay	Selectable:	: 15s or 30s				
Analog Output	A: N/A	C: 0-10V	A: N/A	C: 0-10V		
Alarm Indication	1 red LED flashing	and audible buzzer	1 red LED flashing and audible buzzer			
Alarm Mute		10)				
Light On/Off	(1)	*				
Fan On/Off	(		Yes, optional			
Alarm Relay	Yes, o	ptional				
Battery Back up	Yes, o	ptional	Yes, optional			
Sash High Input	indicate sash po	nge flashing LED osition switch has tripped	Audible and orange flashing LED indicate sash position switch has been tripped			
Mounting	Flush or surfa	ce box (option)	Flush or surface box (option)			
Calibration	Factory pre-calib Re-calibrat	orated @ 0.5m/s. ion possible	Factory pre-calibrated @ 0.5m/s. Re-calibration possible			
Power Requirement	12Vdc (Power s	supply included)	12Vdc (Power supply included)			
Orientation	Vertical/I	Horizontal	Vertical Only			
Monitor Dimensions		_ x 90W x 10D mm _ x 85W x 14D mm		x 90W x 10D mm x 85W x 14D mm		

# **DIMENSIONS**



All dimensions in mm

# TECHNICAL INFORMATION

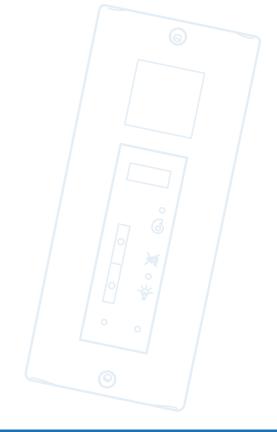
With over 25 years of experience in air movement, we appreciate that products and components used must perform to their optimum level.

This section includes a series of guides and installation instruction to assist with corrosion fan applications, maintenance and general installation of our fans and accessories.

PAGE 52

PRODUCT ORDER CODING

PEDESTAL INSTALLATION INFORMATION



# 25 - LG - 4(L) **Model Abbreviation** SEAT fan STORM fan **Model Number** Scroll Housing 'Handing' Clockwise Rotation on the fan inlet Anti-clockwise rotation on the fan inlet **Motor & Impeller Rotational Speed** 2 pole or 2870/min 4 pole or 1450/min 6 pole or 930/min Motor Power (If Applicable) Medium **Electrical Supply** Single phase electrical supply Three phase electrical supply **ATEX Flameproof** EEx-nA where stated Pedestal Standard steel pedestal for indoor and sheltered installations

Weather protecting polypropylene box pedestal

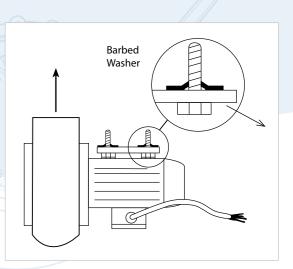
# **INSTALLATION DIAGRAMS**

# ATTACHING THE MOTOR TO A WEATHER PROTECTING PEDESTAL

With the motor feet pointing vertically upwards check that the fan housing is correctly handed.

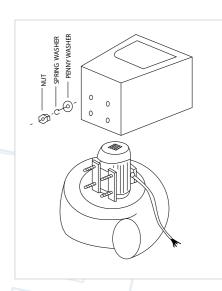
Before attaching the pedestal to the motor:

- 1. Make a note of the motor full load current for the appropriate supply voltage.
- 2. Wire the electrical cable to the motor.
- 3. Insert the hexagon headed bolts through the holes in the motor feet.
- 4. Press the barbed washers onto the screw threads to secure the bolts in position.



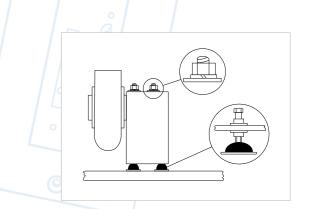
With the fan inlet pointing upwards, guide the bolts through the holes in the top of the pedestal.

Fasten the motor feet to the pedestal using the stainless steel washers, spring washers, and nuts.



The pedestal must be fastened to a horizontal surface or bracket.

Anti-vibration mountings of the turret type are recommended to be fitted to each underside corner of the pedestal base.



# **INSTALLATION DIAGRAMS**

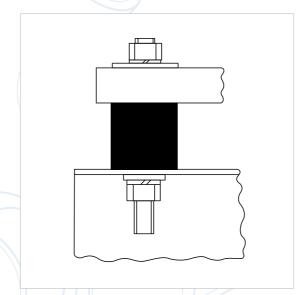
# ATTACHING ANTI-VIBRATION MOUNTINGS TO A STEEL PEDESTAL

Place the motor feet on the pedestal to identify the set of 4 holes to be used to attach the motor.

Fit the four a.v. bobbin mountings to the motor mounting holes and secure with the stainless steel plain washers, spring washers, and nuts.

Place the motor feet onto the a.v. bobbin mounting threads and secure with the stainless steel plain washers, spring washers, and nuts.

Fasten the four corners of the pedestal feet directly to the mounting base.



# INSTALLATION INSTRUCTIONS 'S' & 'ST' RANGE POLYPROPYLENE FANS

### **DELIVERY**

Inspect the carton and its contents for signs of damage. Check that the contents are exactly as ordered for the project. Any discrepancies should be reported immediately to the supplier.

### STORAGE

Protect fan motors from extremes of temperature, high humidity, damp conditions, and rain water. Motors that have been in damp or wet conditions must be dried-out by passing a low current though the windings or by energising anti-condensation heaters where fitted. The winding insulation resistance between phases and from each phase to earth should be at least  $10\text{M}\Omega$ .

## **APPLICATIONS**

Ventilation of air-diluted corrosive fumes or flammable vapours from Fume Cupboards, Fume Hoods, Fume Extraction Arms, Chemical Stores, Chemical Tanks, Process Equipment.

### **LIMITATIONS TO USE**

Polypropylene is highly resistant to corrosive substances but advice must be sought concerning its suitability for use with particular fumes, their concentrations and temperatures. In general, 'S' & 'ST' Range fans will not endure air-stream temperatures above 50°C; neither should they handle dust or other airborne materials. They must not be installed in ambient temperatures above 40°C or in designated Flameproof Zones unless they are ATEX certified models.

## **MECHANICAL PRECAUTIONS**

Flexible duct connectors secured by stainless band clips should be used to isolate fan vibration from and correct slight misalignment with the ventilation ductwork. Do not fit solid connectors to the fan inlet, it is not designed to take weight. In non-ducted applications, fans should be equipped with finger guards. Locate anti-vibration mountings between the motor feet and steel pedestal, or beneath a polypropylene BOX pedestal, and then secure them with corrosion resistant fasteners. Rubber A.V. Mountings should only be used in compression. The fan should run without excessive electromagnetic vibration or mechanical imbalance. The fan discharge position may be adjusted by removing the screws securing the motor mounting plate to the fan housing, then indexing the scroll to a new angular location and re-fitting the screws, taking care to ensure that the 'O' ring seal remains in place.

# DO NOT REVERSE THE SCROLL HOUSING - THE IMPELLERS ONLY WORK ONE WAY!

# **WEATHER PROTECTION**

Standard motors are dust and hosed-water protected to IP55 classification, but are not 'weather protected'. No motor manufacturer provides a warranty for IP55 motors installed outdoors unless a ventilated cover or weather-protecting BOX pedestal has been fitted. All cables and wires entering the motor terminal box should pass through liquid-tight glands compression-sealed to the cable outer sheath. Cables should loop downwards from the gland to take water away from the seal. A hose connector should be fitted to the scroll housing at its lowest point to enable water to drain safely away.

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# INSTALLATION INSTRUCTIONS 'S' & 'ST' RANGE POLYPROPYLENE FANS

### **ELECTRICAL CONNECTION**

Fan impeller rotation must be in the direction of the arrow symbol moulded into the scroll housing. The motor should be connected in accordance with the diagram contained in its terminal box, then wired to a local Isolator. All terminal post nuts should be tightened to provide solid and vibration resistant electrical connection. First switch-on should be brief enough to establish correct direction of impeller rotation. Single phase motors are normally pre-connected in the terminal box for correct rotation. Three phase motors can run in the wrong direction when first switched-on, in which case they must be corrected by reversing any two of the three phase supply leads.

### **ELECTRICAL PROTECTION**

The fan motor has no in-built thermal protection devices, unless specified, and must therefore be wired via a Motor Starter fitted with an Overload Relay set at the motor full-load current. If the Relay 'trips' the Starter check that a) the relay is correctly set, b) the ventilation system is sufficiently damped c) the motor is correctly connected in the terminal box, d) a three phase motor is not 'single-phasing' e) the current is below nameplate full load. Where PTC thermistors are specified and fitted to the motor they should be connected to a thermistor relay or to a frequency inverter that has the necessary terminals.

### **ELECTRIC MOTORS MUST NOT BE OVER-CURRENT PROTECTED USING FUSES.**

When controlling a fan by frequency Inverter, the motor terminals must be correctly linked in either STAR or DELTA to suit the three phase voltage output from the inverter. All relevant instructions contained in the Inverter manual should be meticulously followed. Inverter controlled flameproof motors must be fitted with thermistors for connection to the inverter to provide over-temperature cut-out.

### **RESPONSIBILITY**

The above instructions are issued for general guidance. The installation contractor bears the ultimate responsibility for determining that the work is carried-out by a qualified technician observing local regulations, and that the fan receives adequate protection from adverse electrical, mechanical, thermal and environmental conditions.

# **SAFETY NOTES**

Safety Notes for Seat polypropylene centrifugal fans for applications in a potentially explosive atmospheres.

The following safety instructions refer to the installation, use and maintenance of polypropylene centrifugal fans to be used in classified (zone 2) explosive areas.

Centrifugal fans are suitable for group EXII cat 3G (Zone 2) installation, to be used in classified zones with the presence of gas (zone 2, group II, IIB or IIC category 3G) dependant on the application. They are designed and constructed in accordance to the General Requirements of ATEX 2014-34 directive, in accordance to norm EN 1127-1, EN 13463-1. The fan is marked in accordance with the ATEX 2014-34-EU Directive.

Electric motors fitted onto centrifugal fans are subjected to appropriate certification in accordance with ATEX Directive and they are suitable for use in classified zones (zone 2) with presence of gas, groups II, IIB or IIC protection EEx, temperature classes T3,T4, T5 & T6 depending on the application. The technical characteristics of the fan (airflow, pressure, rpm, efficiency, etc.) are on individual fan data sheets.

Motor electrical data is shown on the motor nameplate.

### **MARKING**

The fan assembly (fan + motor assembled together) C€ © II 3 G II, IIB or IIC – T3, T4, T5, or T6. Maximum air temperature should be checked with fan manufacturer.

## **GENERAL REQUIREMENTS**

Before the installation please read carefully the installation and maintenance instructions. The installation and maintenance of the centrifugal fans must be done in accordance to the plant and maintenance classified area with the presence of explosive gases and/or other national norms/standards).

Electric motors to be coupled with centrifugal fans must have the following requirements:

- Subject to separate ATEX certification,
- 2. Suitable to be used in the classified zone and with the existing substance (gas group)
- 3. Temperature class (gas) suitable with the existing substances and environment of the installation area.

For motor safety requirements please refer to the motor maintenance, use, and safety instructions.

Motors must not be opened when in use.

Centrifugal fans must be earthed through appropriate connections (anti-loosening and anti-rotation device).

All maintenance operations must be performed in accordance with the instructions detailed in the maintenance manual.

# **SAFETY NOTES**

## **WARNINGS**

The fan inlet if not coupled with a duct must be installed with a protection grid IP20, to protect the impeller against contact with external bodies and/or dirt. If the fan is duct mounted it is necessary to have the appropriate protection devices in accordance regulations.

Earthing of the conductive areas of the motor/casing is made through the external earthing. Check Atex regulations for details. The fan should be checked for wear, damage or build up of dust/dirt. Ensure the fan is running correctly ie no vibration or any abnormal noises.

If on inspection the fan is not operating as normal the fan should be stopped. Then try to identify the origin of the problem and contact the installer.

If the fan is to work in conjunction with an Inverter speed controller the thermistor connections must be used. They need to be connected to the inverter if it has thermistor connections or a thermistor relay.

# POLYPROPYLENE FAN SPECIFICATIONS

### **APPLICATIONS**

Suitable for operation in corrosive applications including plating, fume handling and lab hood exhaust systems etc.

### **HOUSINGS: PP**

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

## **IMPELLER: 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 to ISO 1940, ISO 90-600.

### **MOTOR SUPPORT**

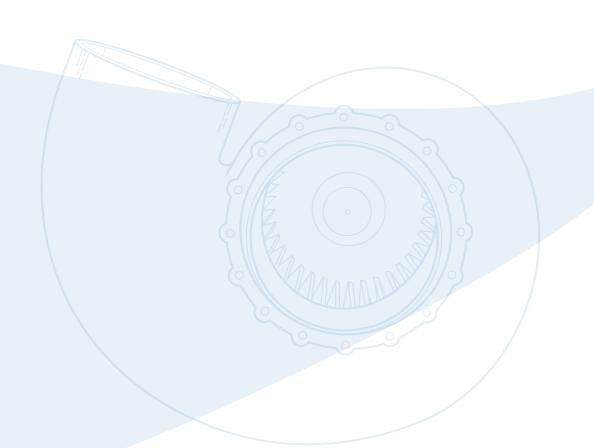
Several options: no stand, metal stand, polypropylene motor pedestal or roof unit kit.

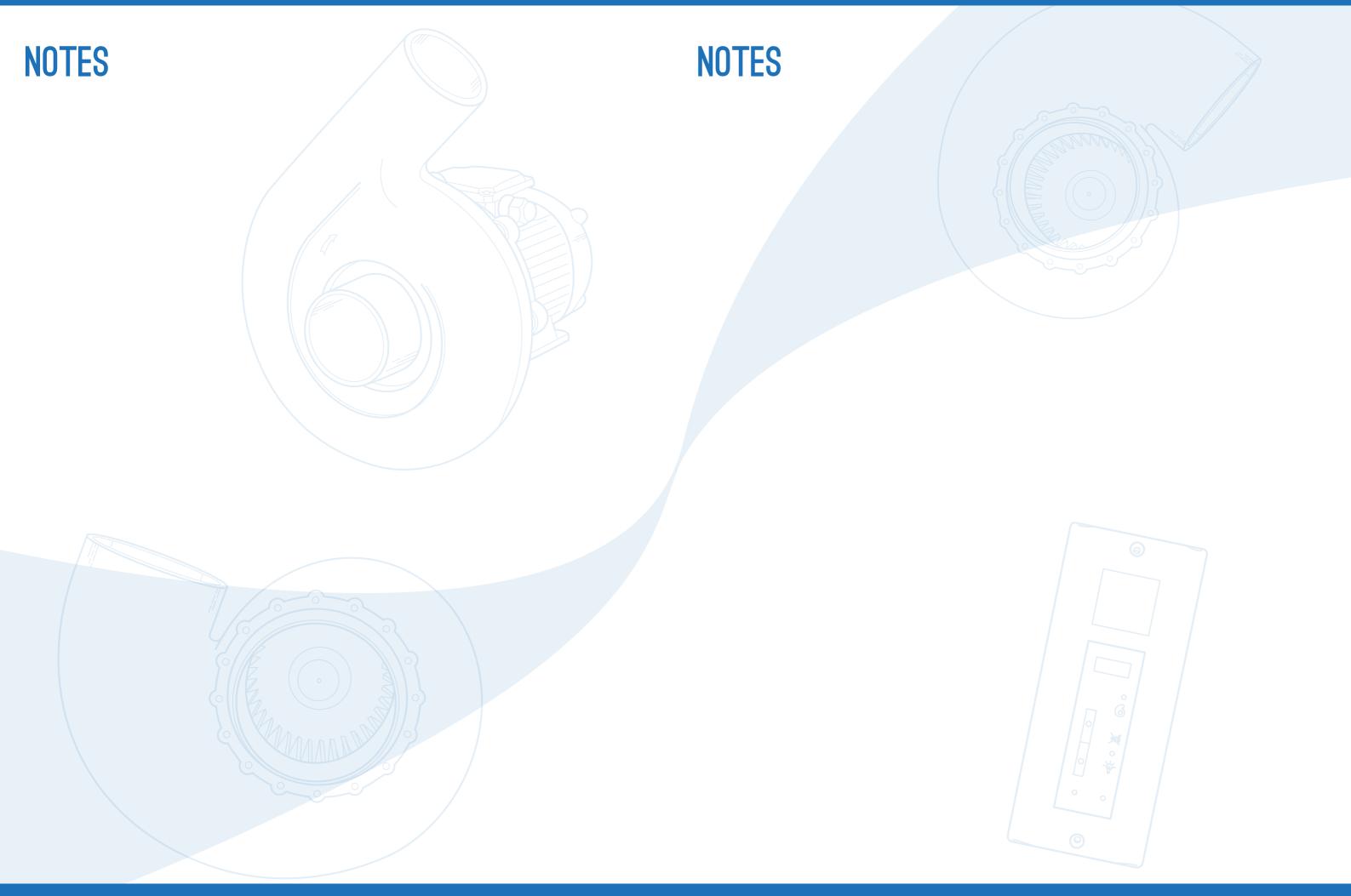
### **MOTORS**

Direct drive, asynchronous, single or three phase, IP55, Single speed three phase 230/400 V - 50/60 Hz, single phase 230 V - 50 Hz.

### **TEMPERATURE RESISTANCE**

PPH casing and wheel recommended up to 50°C.









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