

E

DESCRIPTION

Seat fans are designed to exhaust fumes from corrosive environments such as laboratories, fume cupboards, battery rooms and chemical plants. They include a high density, UV treated polypropylene housing and impeller to ensure maximum protection against acids and corrosion.

There are 5 models in the range to suit duct diameters from 125 to 315mm.

Features

- Cowl rotates to 8 discharge positions by 45° increments
- LG and RD handing from SEAT15-30, LG only for SEAT35
- Air flows up to 2500L/s
- Static Pressures up to 1500Pa
- Forward curved centrifugal impeller
- Direct drive, asynchronous motor, single or three phase, IP55
- Explosion proof motors available on request
- Recommended up to 60°C

Construction

High density, UV treated polypropylene housing and impeller that are resistance to chemical corrosion. Black epoxy coated metal stand.

Internal thermal Protection

Can be provided as an optional extra.

Motors

Type - squirrel cage induction motor
Electricity supply – Motors to suit a wide range of voltages and frequencies can be supplied
Bearings - sealed-for-life, ball
Can be fitted with speed-controller
See pages *O-2/3* for details on these motors

Testing

Air flow tests to ISO5801:2017
Noise tests to ISO 13347

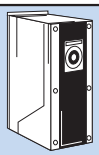
Special Note

Motor cover is recommended for all outdoor installations

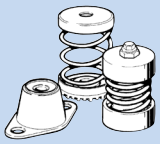
Wiring Diagram

See N-6/7, diagrams DD1,2,3,8

ANCILLARY EQUIPMENT



Variable Speed Drive
Ref. *Section M*



Vibration Isolators
Ref. *Section I*

HOW TO ORDER

SEAT Series product codes are made up as follows, not all combinations are possible.

Type	Size	Speed	Motor	Power	Handing	Angle
SEAT	25	4	B	003	LG	135

Type
SEAT Series

Inlet/Discharge diameter
15 = 125mm
20 = 160mm
25 = 200mm
30 = 250mm
35 = 315mm

Fan Speed, no. of poles 2, 4, 6

Motor Type
Three Phase B
Single Phase S

Motor Power
001 = 0.18kW 005 = 0.55kW 015 = 1.5kW 040 = 4.0kW
002 = 0.25kW 007 = 0.75kW 022 = 2.2kW 055 = 5.5kW
003 = 0.37kW 011 = 1.1kW 030 = 3.0kW

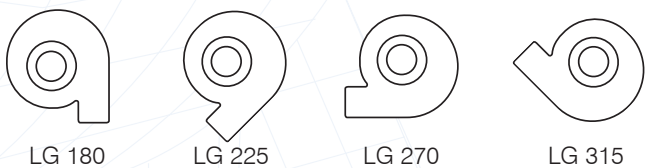
Handing Arrangements
Left LG*
Right RD
* LG only for SEAT 35

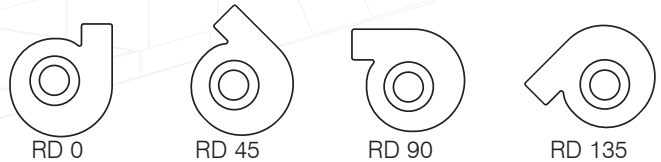
Angle, 45° increments:
0, 45, 90, 135, 180, 225, 270, 315

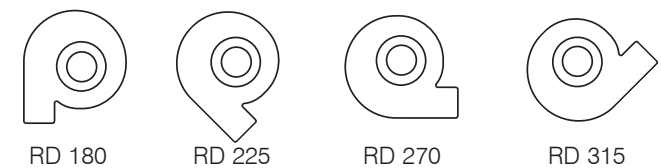
Handing Arrangements

Handing arrangements are viewed from the inlet side - adjustable by 45° increments



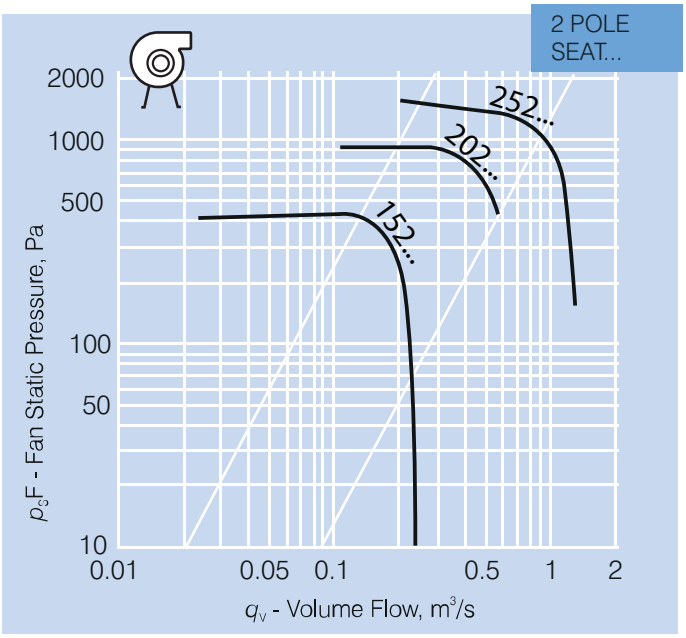




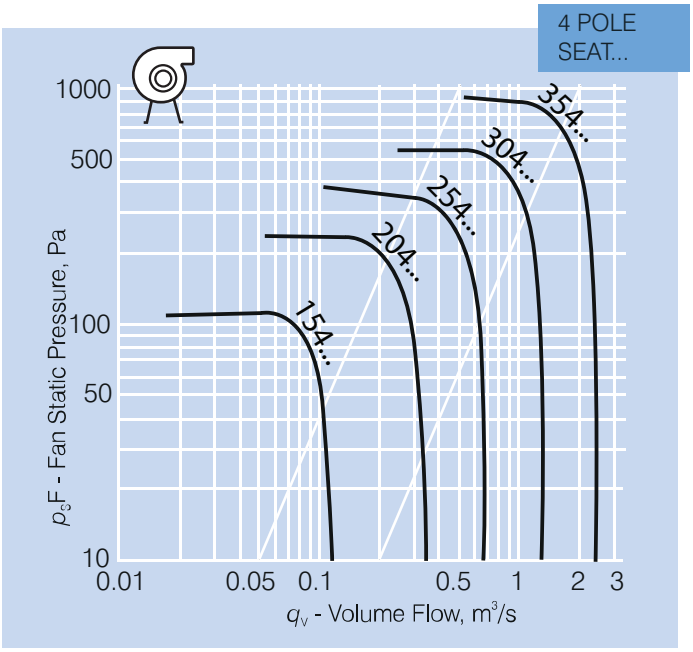


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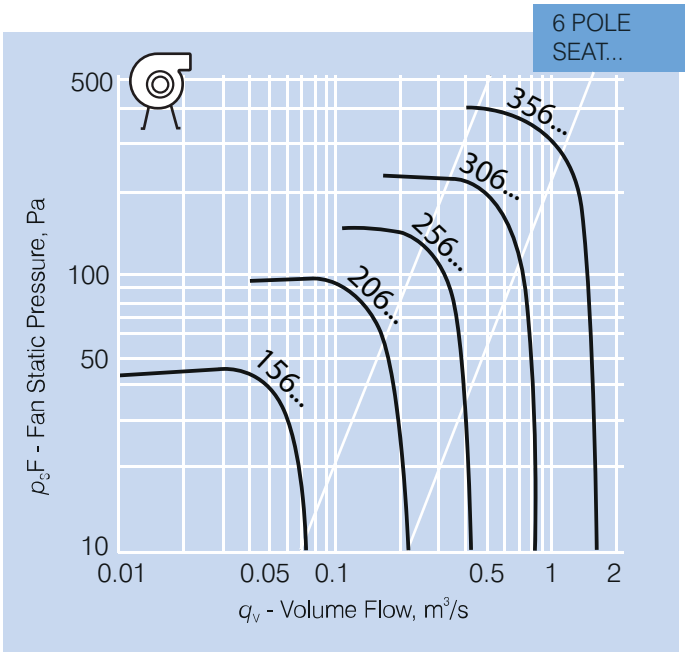
2 POLE SEAT...



4 POLE SEAT...



6 POLE SEAT...



SUGGESTED SPECIFICATION

The centrifugal extraction fans shall be of the SEAT Fan series as supplied by Fantech Pty. Ltd. and be of the model numbers shown on the schedule/drawing.

The housings and impellers shall be made from high density, UV treated polypropylene that is resistance to chemical corrosion. Impellers shall be forward-curved and the cowl preset to 1 of 8 discharge positions, rotated by 45° increments.

The centrifugal extraction fan shall be driven by a direct drive motor and designed to operate with a variable speed controller or variable speed drive.

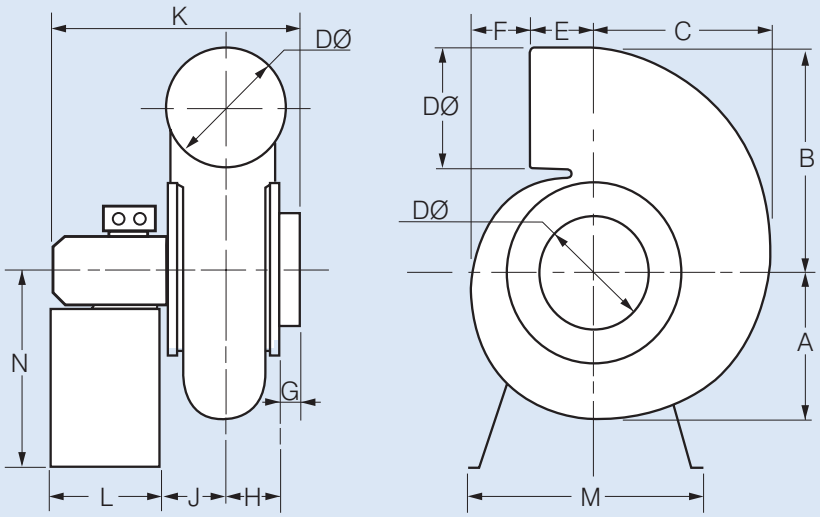
They shall be fitted with inlet spigot and discharge flange, and come standard with an epoxy coated metal stand.

Air flow test data shall be based on ISO5801:2017. Noise test data shall be based on ISO 13347.

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DIMENSIONS



Model SEAT..	Dimensions, mm A	B	C	DØ	E	F	G	H	J	K**	L	M	N
15..	170	240	203	125	100	32	30	70	80	360	180	340	311
20..	208	303	240	160	100	57	32	84	94	390	180	340	311
25..	248	365	310	200	103	92	35	95	105	515	180	420	390
30..	300	450	373	250	117	112	35	110	120	540	240	460	460
35..*	370	570	450	315	130	170	60	150	170	792	350	600	580

* LG Position available only
** Longest frame size shown

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TECHNICAL DATA

Model SEAT...	Fan Speed rev/sec	Avg. dB(A) @ 3m*	1 ph kW	1 ph Amps	3 ph kW	3 ph Amps	Max. amb °C**	App. Wt. kg	Handing
152	48	54	0.37	2.70	0.37	1.04	60	8.1	LG or RD
154	24	42	0.25	2.20	0.25	0.90	60	8.3	LG or RD
156	16	30	-	-	0.18	0.68	60	8.3	LG or RD
202	48	64	0.75	4.73	1.10	2.40	60	15.9	LG or RD
204	24	49	0.25	2.20	0.25	0.90	60	9.0	LG or RD
206	16	40	-	-	0.18	0.68	60	9.7	LG or RD
252	48	67	-	-	3.00	5.78	60	36.0	LG or RD
254	24	53	0.37	2.90	0.37	1.10	60	11.9	LG or RD
256	16	43	-	-	0.18	0.68	60	11.4	LG or RD
304	24	59	1.10	7.00	1.10	2.68	60	23.7	LG or RD
306	16	49	-	-	0.75	2.22	60	19.6	LG or RD
354	24	67	-	-	5.50	11.00	60	53.0	LG
356	16	58	-	-	2.20	5.38	60	43.2	LG

* Inlet Sound Levels
**Max temperature of air in duct

NOISE DATA

Model SEAT...	Type	Avg. dB(A) @ 3m	In-duct Sound Power Levels LwdB re 1pW 63	125	250	500	1k	2k	4k	8k
152	Inlet	54	76	72	74	73	71	62	57	49
	Outlet	57	75	74	80	78	71	62	59	51
154	Inlet	42	60	59	65	63	56	47	44	36
	Outlet	39	61	57	59	58	56	48	42	34
156	Inlet	30	52	48	49	48	47	38	32	25
	Outlet	33	50	50	55	54	46	37	34	26
202	Inlet	64	89	77	87	84	79	70	68	61
	Outlet	66	88	81	87	86	80	73	70	64
204	Inlet	49	74	63	72	69	64	56	53	47
	Outlet	51	73	66	72	71	65	58	56	50
206	Inlet	40	64	53	62	60	55	46	43	37
	Outlet	41	63	56	62	61	55	48	46	40
252	Inlet	67	96	84	88	87	83	76	73	68
	Outlet	70	100	91	93	90	84	79	77	71
254	Inlet	53	81	69	73	72	68	62	58	53
	Outlet	56	85	76	78	76	69	64	62	56
256	Inlet	43	71	59	63	62	59	52	49	44
	Outlet	46	75	67	68	66	60	55	52	46
304	Inlet	59	78	80	76	76	76	72	67	62
	Outlet	61	85	86	80	79	77	73	70	64
306	Inlet	49	68	70	66	66	66	62	57	52
	Outlet	52	75	76	71	70	68	64	61	55
354	Inlet	67	82	88	84	84	82	81	78	72
	Outlet	70	87	98	88	86	85	83	80	73
356	Inlet	58	73	79	74	75	73	71	68	62
	Outlet	61	77	88	78	76	76	74	71	63

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