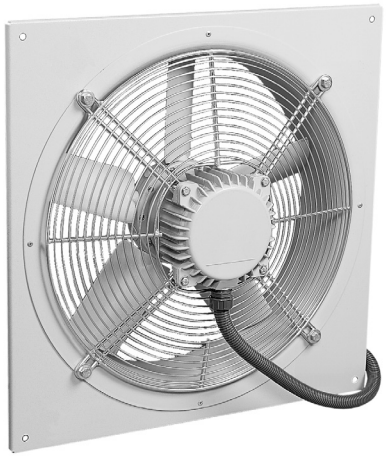
A



ANCILLARY EQUIPMENT



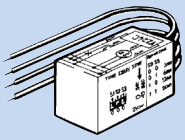
DG - Finger Guards
Ref. Section J



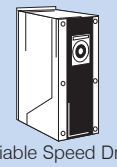
WSK - Backdraft shutter, *Ref. Section L*



VA - Speed controller
Ref. Section M



VZ - Run-on timer
Ref. Section M



Variable Speed Drive
Ref. Section M

DESCRIPTION

The Compact 2000 Series of square plate axial fans is a high quality, robust product with 10 sizes ranging from 250 to 800mm diameter. The range is available in three motor options; Standard, High Performance (HP), and Speed Controllable (SC) by Variable Speed Drive. They come with an IP55 rating and are suitable for a wide range of commercial and industrial applications.

Typical Applications

Capable of exhausting or supplying air in environments containing both clean ambient air and toxic noxious gases. See Special Note below.

Features

- Robust high quality construction.
- Inlet guard is incorporated as standard for models 025 to 063 and is an optional extra for models 071 and 080.
- The standard 040 to 063 size range in 3 phase are fitted with 2-speed star/delta motors.
- Capable of operating across a wide temperature range; -20°C to 70°C.
- A flying lead with junction box and 20mm dia flexible conduit is fitted as standard to models 025 to 063.
- Can be mounted in any position.
- An extensive range of matched ancillary equipment is available.

Construction

The square plate is manufactured from galvanised steel with an additional high quality polyester epoxy finish as standard. Impellers have GRP blades as standard; aluminium and nylon blades are an optional extra. Non-sparking blades can be fitted to models 071 and 080.

Motors

Type - squirrel cage induction motor.

Electricity supply - 230V single or 415V three-phase, 50Hz.

Bearings - sealed for life, ball.

Operating temperature range; -20°C to 70°C.

Maximum ambient temperature when being speed controlled is 40°C.

IP55 rating.

The standard 040 to 063 range are fitted with 2-speed star/delta motors.

Standard models to 063 can be speed controlled using electronic or auto-transformer controllers.

SC models can be speed controlled using a Variable Speed Drive.

See pages *O-3/4* for details of these motors.

Internal Thermal Protection

Manual-reset thermal protection is supplied as standard up to model 063 and as an optional extra on models 071 and 080.

Testing

Air flow tests to AS ISO5801:1997

Noise tests to BS848:Part 2, 1985

Wiring Diagram

See *Section N*

Special Note

Derate the air flow by at least 25% if the air flow direction is reversed from standard. Add the suffix “R” to fan code.

SUGGESTED SPECIFICATION

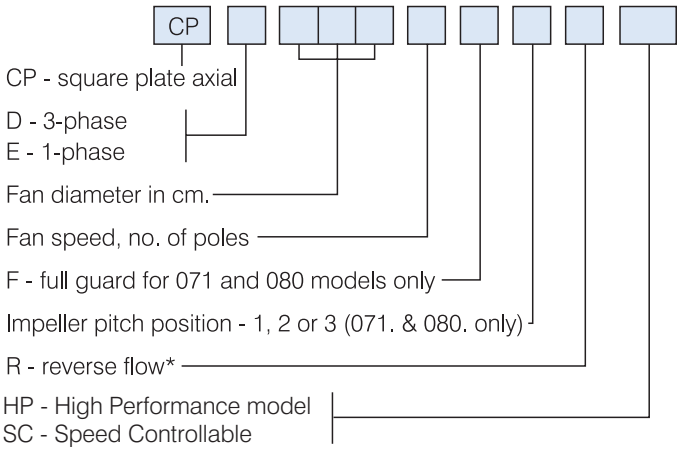
The square plate axial fans shall be of the Compact 2000 Series as designed and manufactured by Fantech Pty Ltd and be of the model numbers shown on the schedule/drawings.

The axial impellers shall have GRP blades.

Square plates shall be made from galvanised steel with a polyester epoxy finish.

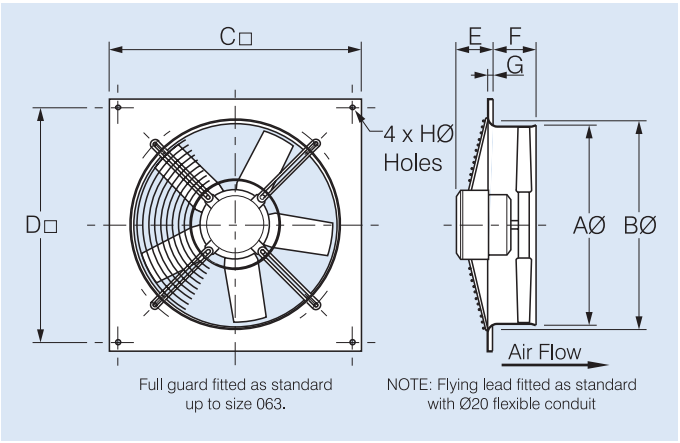
All models shall be fully tested to AS ISO5801:1997 for air flow and to BS848:Part 2, 1985 for noise

HOW TO ORDER



© FANTECH 2024

DIMENSIONS



Full guard fitted as standard up to size 063.

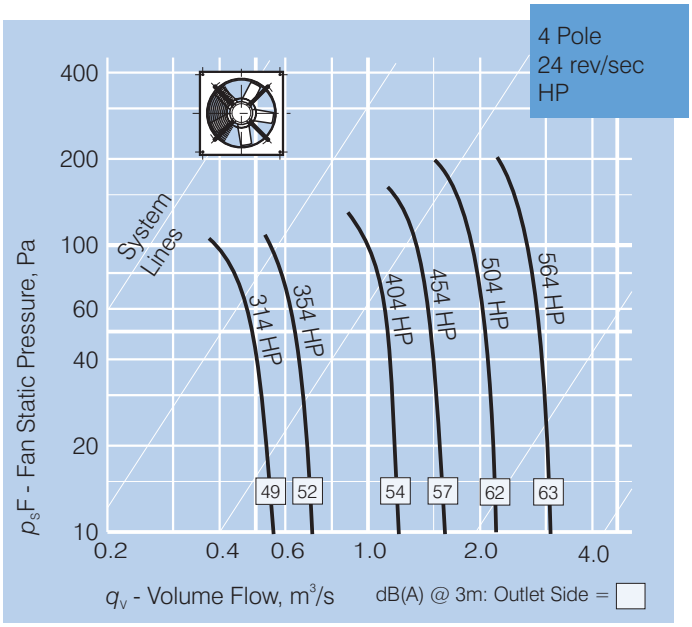
NOTE: Flying lead fitted as standard with Ø20 flexible conduit

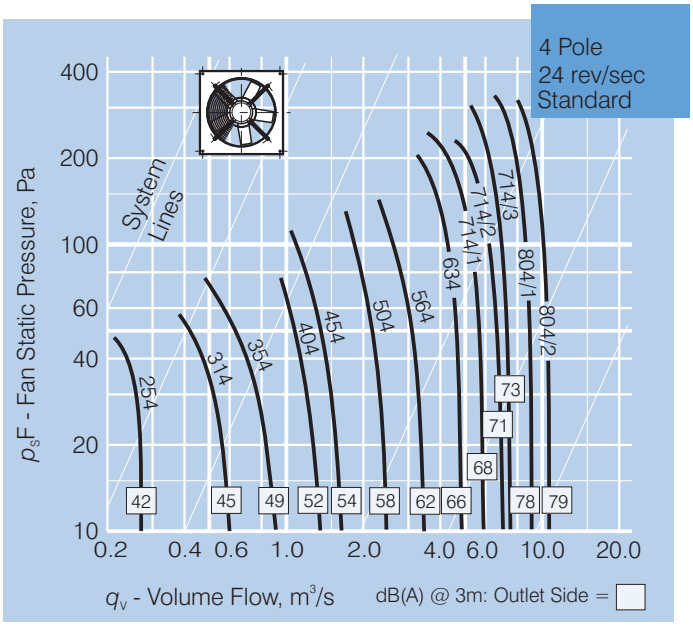
Model CP..	Dimensions, mm AØ	BØ	C□	D□	E	F	G	HØ	App. wt. kg
025.	263	285	370	320	98	74	15	6	5.5
031.	325	330	430	380	95	85	10	9	10
035.	360	370	485	435	95	85	10	9	10
040.	410	420	540	490	95	95	12	9	15
045.	460	470	575	535	95	95	12	11	17
050.	510	535	655	615	145	100	15	11	24
056.	575	600	725	670	145	100	15	11	27
063.	645	670	805	750	140	105	20	11	34
071.	716	760	850	810	*	98	22	14.5	37/61
080.	809	860	970	910	*	133	22	14.5	50/99

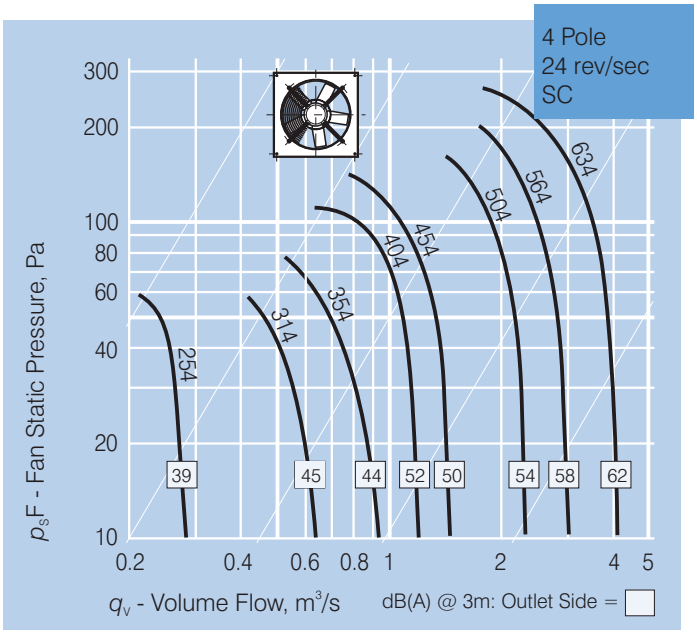
Motor Frame Size	* E
D90S	222
D90L	238
D100L	304
D112M	346
D132S	367
D132M	405

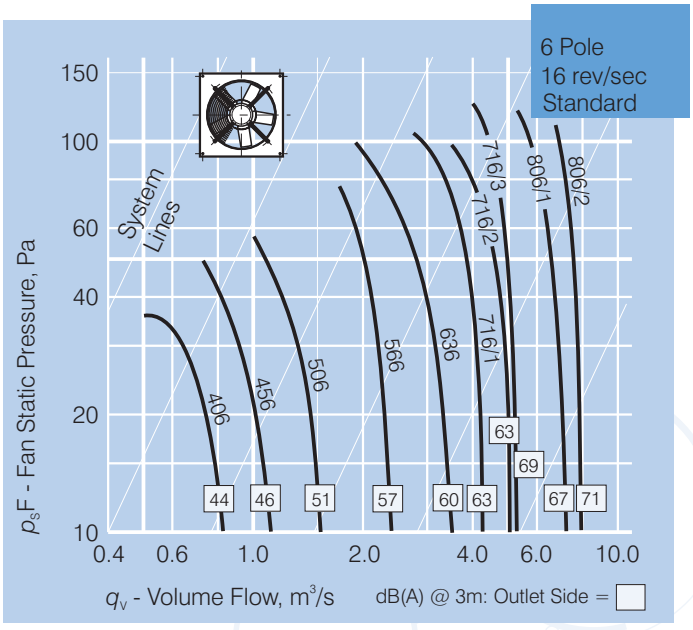
Note:-

The selections shown here are based on fixed pitch impellers. If units with different performances than those shown here are required, refer to the SQ Series on pages *A-21/23.*









TECHNICAL DATA & NOISE LEVELS

A

Model CPD.. CPE..	Nom. Speed rev/sec	Avg. dB(A) @ 3m	CPE.. 1 ph. kW	CPE.. 1 ph. Amps*	CPD.. 3 ph. Frame**	CPD.. 3 ph. kW	CPD.. 3 ph. Amps*	Max. amb °C	In-duct Sound Power Levels L_WdB re 1pW 63	125	250	500	1k	2k	4k	8k
0254F	22	42	0.09	0.90	-	0.12	0.50	70 Δ	66	64	61	60	56	55	51	45
0254FSC	23	39			-	0.12	0.41	70 Δ	58	68	62	53	53	51	45	38
0314F	22	45	0.09	0.90	-	0.12	0.50	70 Δ	69	67	63	63	60	57	53	49
0314FSC	23	45			-	0.12	0.41	70 Δ	65	69	69	62	65	64	57	44
0314FHP	22	49	0.09	0.90	-	0.12	0.50	70 Δ	64	74	68	59	59	57	51	44
0354F	22	49	0.09	0.90	-	0.12	0.50	70 Δ	71	70	65	67	66	59	55	54
0354FSC	23	44			-	0.12	0.41	70 Δ	68	72	72	65	68	67	60	47
0354FHP	22	52	0.09	0.90	-	0.12	0.50	70 Δ	63	73	67	58	59	56	50	43
0404F	22	52	0.25	1.80	-	**0.37**	**1.40**	70 Δ	71	72	68	70	69	64	61	56
0404FSC	23	52			-	0.25	0.68	70 Δ	68	70	70	69	71	69	61	52
0404FHP	22	54	0.25	1.80	-	**0.37**	**1.40**	70 Δ	74	77	69	69	65	65	62	59
0406F	15	44	0.12	1.05	-	**0.18**	**0.68**	70 Δ	67	63	66	63	61	53	48	43
0454F	22	54	0.25	1.80	-	**0.37**	**1.40**	70 Δ	74	75	72	71	70	67	64	56
0454FSC	23	50			-	0.25	0.68	70 Δ	71	73	73	72	74	72	64	55
0454FHP	22	57	0.25	1.80	-	**0.37**	**1.40**	70 Δ	69	75	67	67	64	64	60	54
0456F	15	46	0.12	1.05	-	**0.18**	**0.68**	70 Δ	66	64	66	64	61	58	54	45
0504F	22	58	0.55	3.60	-	**0.55**	**1.75**	70 Δ	77	81	78	73	72	72	69	62
0504FSC	23	54	-		-	0.55	1.35	70 Δ	73	74	74	76	79	76	74	62
0504FHP	22	62	0.55	3.60	-	**0.55**	**1.75**	70 Δ	72	78	70	70	69	68	66	60
0506F	15	51	0.18	1.55	-	**0.25**	**0.94**	70 Δ	72	67	69	68	69	63	57	51
0564F	22	62	0.75	4.90	-	**0.75**	**2.00**	70 Δ	81	83	80	79	78	75	73	67
0564FSC	23	58	-		-	0.75	1.76	70 Δ	76	74	77	78	80	77	75	66
0564FHP	22	63	0.75	4.90	-	**0.75**	**2.00**	70 Δ	80	79	74	75	72	71	69	65
0566F	15	57	0.25	2.20	-	**0.25**	**0.94**	70 Δ	76	73	76	76	73	71	60	56
0634F	22	66	-		-	**1.50**	**4.30**	70 Δ	81	82	86	84	80	78	77	72
0634FSC	24	62	-		-	1.10	2.68	70 Δ	78	83	78	78	76	76	74	69
0636F	15	60	0.55	6.00	-	**0.55**	**2.00**	70 Δ	83	80	78	77	76	73	68	59
0714/1	24	68	-		D100La	2.20	4.70	40	90	80	84	83	83	82	81	76
0714/2	24	71	-		D100Lb	3.00	6.34	40	87	84	87	87	86	84	84	75
0714/3	24	73	-		D112M	4.00	8.37	40	91	90	93	91	87	86	83	77
0716/1	16	63	-		D90S	0.75	2.22	40	85	79	77	83	78	73	71	63
0716/2	16	63	-		D90L	1.10	3.00	40	84	81	82	83	78	73	72	61
0716/3	16	69	-		D100L	1.50	3.91	40	90	84	85	89	86	79	72	68
0804/1	24	78	-		D132S	5.50	11.00	40	90	83	89	92	95	93	88	81
0804/2	24	79	-		D132M	7.50	14.51	40	96	93	94	95	94	93	89	82
0806/1	16	67	-		D100L	1.50	3.91	40	90	86	85	87	82	77	73	65
0806/2	16	71	-		D132S	3.00	7.61	40	92	84	88	89	87	84	78	69

* Amperages shown are a guide only, refer to our Sales Department for accurate figures at time of order.
** Use inverter controllers for variable speed.
Electrical data in **bold** type refers to fans that are fitted with 2-speed star/delta motors as standard. High speed data shown.
Δ Maximum ambient is 40°C when being speed controlled.
The In-duct Sound Power Levels are for the Outlet Side of the fan; Inlet Side values are generally 1-2 dB lower. The levels are based on the fans operating at approximately 50% of peak pressure.

Scan the QR Code to view more information online.

© FANTECH 2024