

Fan Box

IN-LINE CENTRIFUGAL DUCT FANS

PERFORMANCE GUIDE & ELECTRICAL DATA

Unit Code	Nom. RPM	Phase	Duty - m ³ /s @ Pa										Motor kW	Amps		
			0	25	50	100	150	200	250	300	350	400		FLC	SC	
Single Phase Unit																
FB100B	2500	1	0.064	0.060	0.056	0.046	0.033							0.084	0.64	0.78
FB125B	2500	1	0.073	0.066	0.063	0.054	0.039							0.084	0.64	0.78
FB150B	1800	1	0.181	0.177	0.175	0.162	0.146	0.128	0.105	0.079				0.180	0.79	3.20
FB160B	1800	1	0.187	0.182	0.180	0.167	0.150	0.132	0.108	0.081				0.180	0.79	3.20
FB200B	1450	1	0.248	0.239	0.231	0.212	0.191	0.166	0.138	0.106				0.220	0.95	4.00
FB250B	1350	1	0.528	0.504	0.486	0.441	0.390	0.331	0.258	0.183	0.082			0.600	3.00	12.00
FB315B	1400	1	0.900	0.864	0.836	0.778	0.702	0.616	0.481	0.345	0.210			1.320	6.20	13.00
FB400B	1400	1	0.985	0.960	0.936	0.874	0.810	0.718	0.599	0.462	0.290	0.111		1.320	6.20	13.00
FB500B	1400	1	1.080	1.049	1.023	0.964	0.900	0.826	0.730	0.610	0.340	0.127		1.320	6.20	13.00

FLC = Full Load Current SC = Starting Current

SOUND DATA

SOUND POWER LEVEL SPECTRA dB (ref 10⁻¹² Watts)

Unit Code		MID OCTAVE BANDS									@3m
		63	125	250	500	1000	2000	4000	8000		
FB100B	Inlet	54	62	46	46	48	47	45	39	33	
	Outlet	50	57	55	57	51	50	46	41	37	
FB125B	Inlet	52	56	53	44	50	46	42	38	33	
	Outlet	50	56	55	54	56	47	45	41	38	
FB150B	Inlet	59	64	54	48	42	39	38	35	32	
	Outlet	59	68	62	64	63	64	63	62	50	
FB160B	Inlet	59	64	54	48	42	39	38	35	32	
	Outlet	59	68	62	64	63	64	63	62	50	
FB200B	Inlet	63	68	55	59	59	57	58	54	44	
	Outlet	59	68	67	63	66	64	63	61	50	
FB250B	Inlet	66	66	62	60	56	55	56	56	43	
	Outlet	61	68	62	62	62	60	61	61	48	
FB315LB	Inlet	71	72	66	64	65	65	62	55	50	
	Outlet	66	73	68	67	70	69	67	59	54	
FB400B	Inlet	71	74	69	67	67	68	67	61	53	
	Outlet	66	77	71	71	74	71	71	66	58	
FB500B	Inlet	71	73	65	67	68	68	65	58	53	
	Outlet	59	72	68	70	70	69	67	60	55	

Published dB(A) figures are free field sound levels at 3m with spherical propagation at a reference level of 2 x 10⁻⁵ Pa. The free field sound power level spectra figure are dB with reference of 10⁻¹² Watts.

To ensure minimum noise levels during speed control an auto transformer speed controller is recommended.

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ACCESSORIES

Unit Code	Electronic Controller Code	Auto Transf. Controller Code	DOL Starter Code	Electric Heaters Code	Panel Filters Code	Spare Panel Filters Code	Bag Filters Code	Spare Bag Filters Code
FB100B	SP5001	SPM5026	RDO1B	QAH100	QPF100A	FILTERS100	QPFB100	FILTERQPFB100
FB125B	SP5001	SPM5026	RDO1B	QAH125	QPF125A	FILTERS125160	QPFB125	FILTERQPFB125
FB150B	SP5001	SPM5026	RDO1C	QAH150	QPF150A	FILTERS125160	QPFB150	FILTERQPFB150
FB160B	SP5001	SPM5026	RDO1C	QAH160	QPF160A	FILTERS125160	QPFB160	FILTERQPFB160
FB200B	SP5001	SPM5026	RDO1C	QAH200	QPF200A	FILTERS200	QPFB200	FILTERQPFB200
FB250B	SP5050	SPM5055	RDO1F	QAH250	QPF250A	FILTERS250	QPFB250	FILTERQPFB250
FB315B	SP5010	SPM5070	RDO1G	QAH315	QPF315A	FILTERS315	QPFB315	FILTERQPFB315
FB400B	SP5010	SPM5070	RDO1G	QAH400	QPF400A	FILTERS400	QPFB400	FILTERQPFB400
FB500B	SP5010	SPM5070	RDO1G	QAH50018KW	QPF500A	63PF661	QPFB500	63BF665

Code No.	Distribution Boxes Code	In-Line Attenuators 300mm Code	600mm Code	900mm Code	1200mm Code	Wall Terminal Code (*280mm)	Roof Terminal Code	Louvre Shutter Code
FB100B	PLB100	010-030	010-060	010-090	-	SA100/280	WRC100	LS250
FB125B	PLB125	012-030	012-060	012-090	-	SA125/280	WB160	LS250
FB150B	PLB150	015-030	015-060	015-090	-	SA150/280	WB160	LS315
FB160B	PLB160	016-030	016-060	016-090	-	SA160/280	WB200	LS315
FB200B	PLB200	-	020-060	020-090	020-120	SA200/280	WB200	LS315
FB250B	PLB250	-	025-060	025-090	025-120	SA250/280	WB200	LS315
FB315B	PLB315	-	031-060	031-090	031-120	SA315/280	RU31/35P	LS400
FB400B	-	-	-	040-090	040-120	QSA400/280	RU40/45P	LS450
FB500B	-	-	-	050-090	050-120	-	RU50/56P	LS500

* Please state length of wall terminal required (80mm or 280mm)

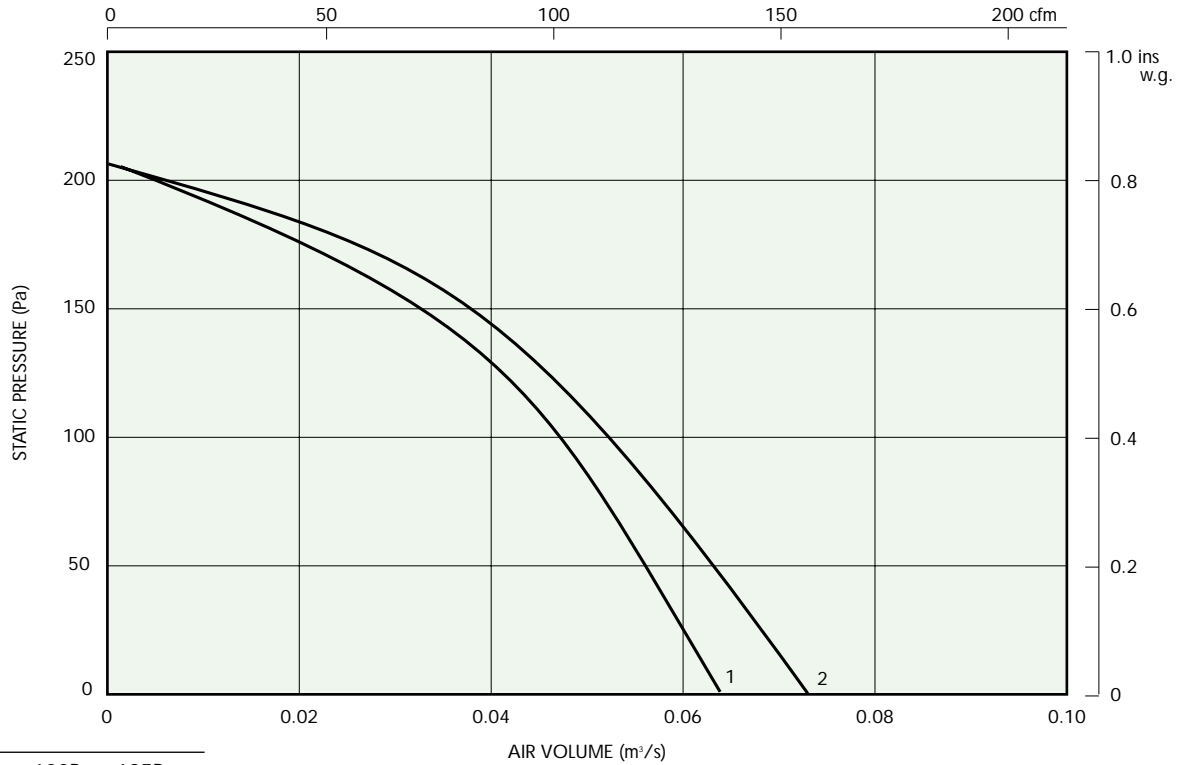
Code No.	Fast Clamp Code	Speed Clamp Code	Vinyl Coated Euroflex 120 (6m)	Aluminium Euroflex 130 (10m)	Flexible Ducting Multiple Layer Ali. Euroflex 150 (10m)	Thermal Euroflex 200 (10m)	Acoustic Euroflex 350 (6m)	Ceiling Terminals Code
FB100B	FC100	49085135	12904102	13904102	15904102	20904102	35904102	-
FB125B	FC125	49085135	12905127	13905127	15905127	20905127	35905127	PNE125-150sq Grille
FB150B	FC150	49115165	12906152	13906152	15906152	20906152	35906152	PNE150-200sq Grille
FB160B	FC160	49115165	12908160	13908160	15908160	20908160	35908160	PNE160-200sq Grille
FB200B	FC200	49165215	12908203	13908203	15908203	20908203	35908203	PNE200-315sq Grille
FB250B	FC250	49275325	12910254	13910254	15910254	20910254	35910254	PNE250-350sq Grille
FB315B	FC315	49275325	12900315	13900315	15900315	20900315	35900315	PNE315-400sq Grille
FB400B	FC400	49375425	12916406	-	15916406	20916406	35916406	PNE400-500sq Grille
FB500B	-	49475525	12920508	-	15920508	20920508	35920508	-

Code No.	Back Draught Shutters Code	Extract Valve (plastic) Code	Supply Valve (plastic) Code	Supply or Extract Steel Valves Code	Fire Protection Valves Code	Intumescent Fire Dampers Code	Circular Fusible Link Damper Code
FB100B	BDS100	VLF100	VLI100	VHE100	VHD100	CVT100	PA100A
FB125B	BDS125	VLF125	VLI125	VHE120	VHD125	CVT130	PA125A
FB150B	BDS150	VLF150	VLI150	VHE150	VHD150	CVT150	PA150A
FB160B	BDS160	-	-	-	-	-	PA160A
FB200B	BDS200	VLF200	VLI200	VHE200	VHD200	CVT200	PA200A
FB250B	BDS250	-	-	-	-	CVT250	-
FB315B	BDS315	-	-	-	-	CVT300	-
FB400B	BDS400	-	-	-	-	-	-
FB500B	-	-	-	-	-	-	-

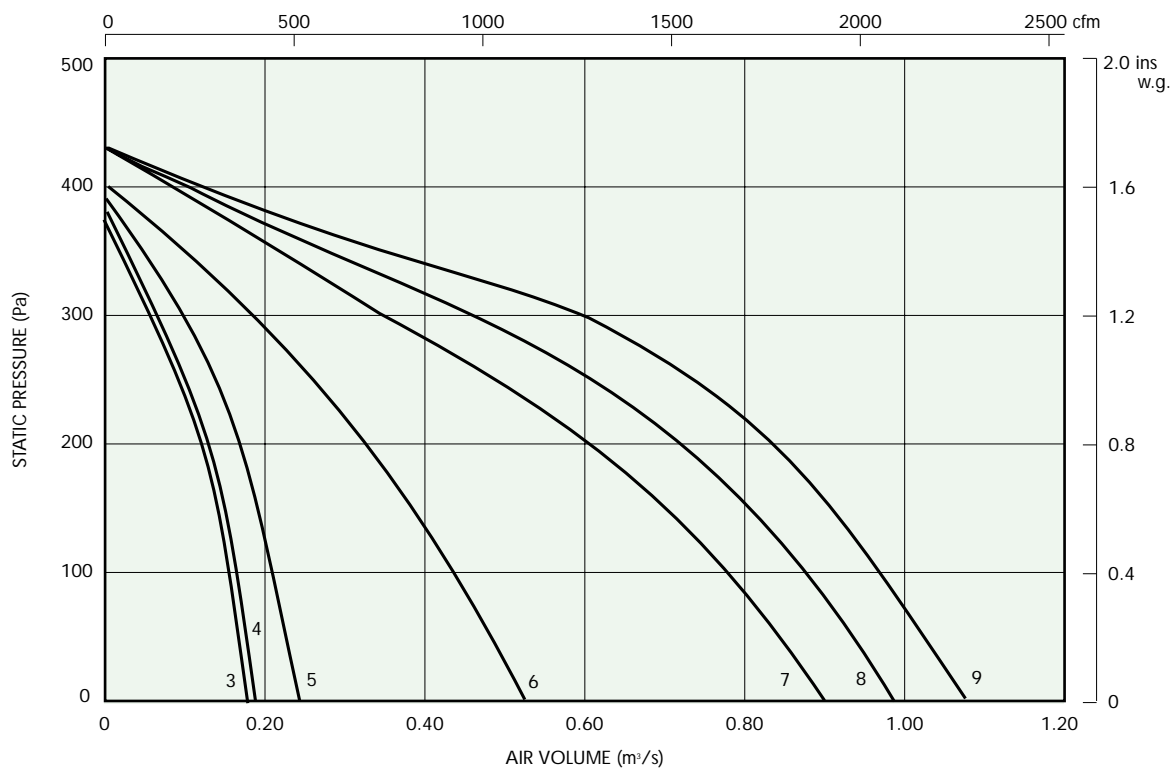
Fan Box

IN-LINE CENTRIFUGAL DUCT FANS

PERFORMANCE CURVES



Size	100B	125B
	1	2



Size	150B	160	200B	250B	315B	400B	500B
	3	4	5	6	7	8	9

Fan Box

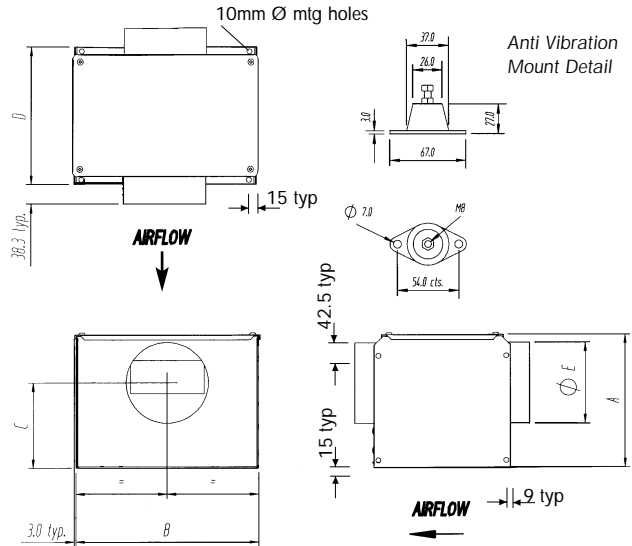
IN-LINE CENTRIFUGAL DUCT FANS

DIMENSIONS (mm)

Unit Size	A	B	C	D	E	Approx Weight (kg)
FB100B	268	363	171	272	97	13
FB125B	268	363	171	272	122	13
FB150B	322	400	203	336	147	13
FB160B	322	400	203	336	157	13
FB200B	322	400	203	336	197	18
FB250B	472	614	320	499	247	23
FB315B	530	630	300	560	312	33
FB400B	530	630	300	560	397	48
FB500B	530	630	300	560	497	72

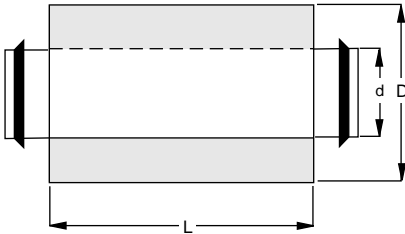
PLEASE NOTE

- Drop rods (up to M8) can be used on the base flange when mounting the unit upside down.
- AVM's can be fitted to either side or the base of the unit.
- An access provision above the lid of each unit, no less than the respective A dimension must be made.

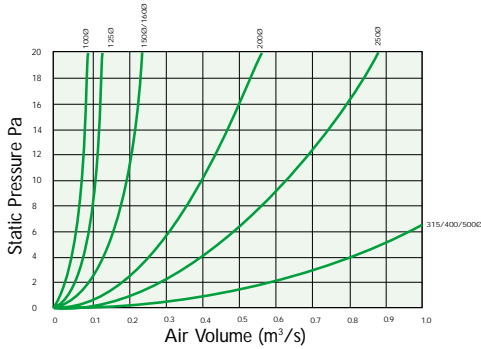


ACCESSORY DIMENSIONS (MM)

SONEX ATTENUATOR



PRESSURE LOSS GRAPH



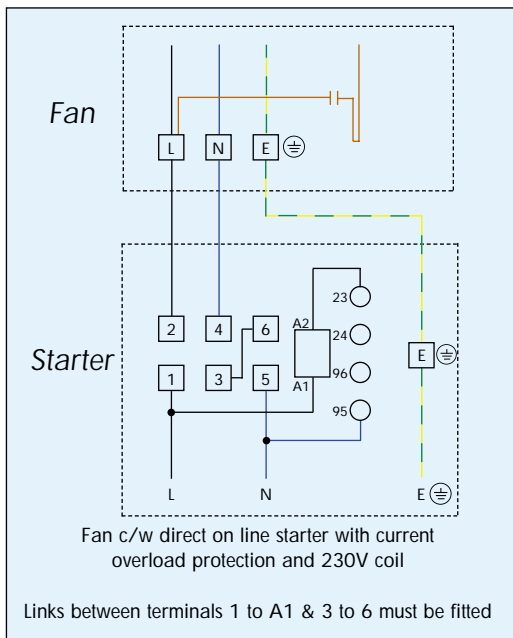
Code No	Attenuation dB mid Frequency Hz								Dimensions (mm)			Weight kg.
	63	125	250	500	1K	2K	4K	8k	d	D	L	
010-030	3	3	9	17	23	26	25	13	100	200	300	2.5
010-060	6	9	15	34	40	40	37	18	100	200	600	4
010-090	10	13	21	40	45	39	36	16	100	200	900	7
012-030	3	3	7	16	20	24	22	17	125	225	300	3.5
012-060	5	8	13	29	35	35	32	22	125	225	600	4.5
012-090	10	12	19	37	40	38	34	32	125	225	900	8
015-030	3	3	6	13	19	23	22	16	150*	260	300	4
015-060	5	7	12	24	30	35	31	20	150*	260	600	6
015-090	8	10	15	32	38	37	34	29	150*	260	900	9
020-060	4	6	10	20	27	33	19	17	200	300	600	7.5
020-090	8	9	14	28	32	35	28	25	200	300	900	11
020-120	10	12	17	36	41	43	28	26	200	300	1200	14
025-060	4	5	10	19	25	29	18	17	250	355	600	10
025-090	6	7	12	23	30	30	22	19	250	355	900	14.5
025-120	8	10	15	32	37	38	26	20	250	355	1200	18
031-060	4	5	8	15	20	22	17	15	315	400	600	13
031-090	5	7	10	20	30	29	18	16	315	400	900	17.5
031-120	7	9	13	22	32	33	19	18	315	400	1200	21
040-090	3	5	9	19	26	20	13	11	400	606	900	38
040-120	6	8	14	24	30	28	17	9	400	606	1200	50
050-090	3	4	9	15	23	17	12	11	500	711	900	43
050-120	5	7	13	18	26	23	15	9	500	711	1200	60

* Also available with a 160 dia spigot

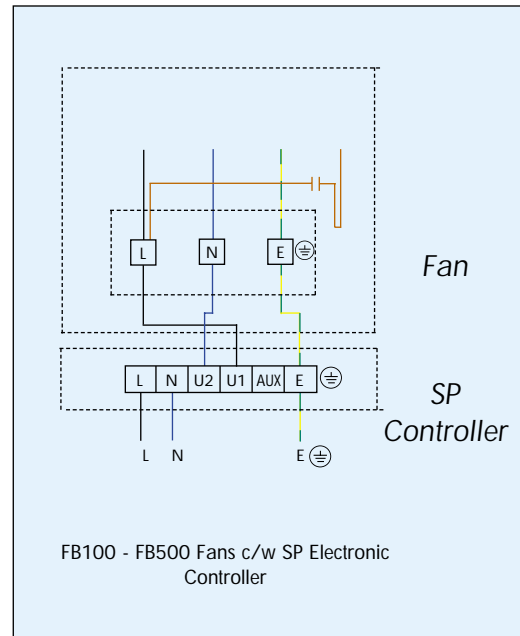
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SINGLE PHASE IN-LINE CENTRIFUGAL DUCT FANS WIRING DIAGRAMS 230V 1PH 50HZ SUPPLY

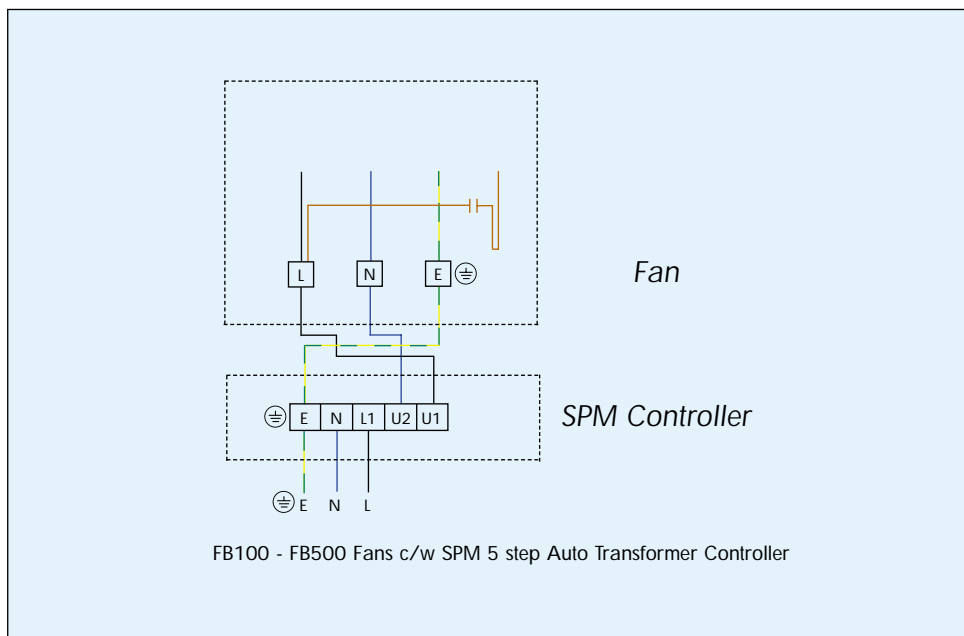
D.O.L. STARTER WIRING DIAGRAM



**SINGLE PHASE ELECTRONIC SPEED
CONTROLLER WIRING DIAGRAM**



SINGLE PHASE AUTO TRANSFORMER SPEED CONTROLLER WIRING DIAGRAM



These products must be installed by a suitably qualified and competent person in accordance with current applicable regulations.