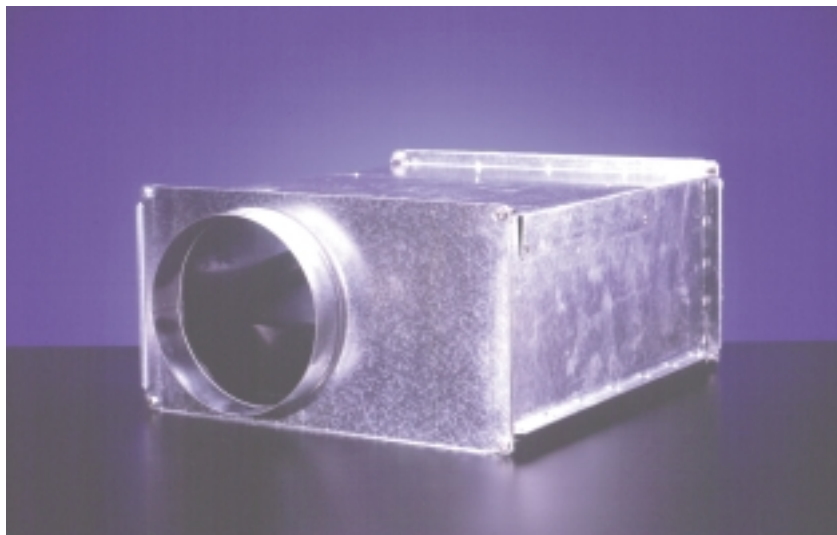


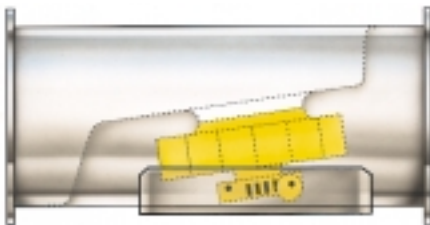
VENT-AXIA
ACCESS™ PAC IN-LINE FANS (PAC)



- ✓ Compact design.
- ✓ Fully speed controllable.
- ✓ Low noise levels, duct borne and breakout.
- ✓ Motors protected to **IP44**.
- ✓ Sizes 100 and 125 are rated to **IP54**.
- ✓ Motor insulation Class B.
- ✓ Circular spigots.
- ✓ Manufacture controlled to **BS EN ISO 9001**.
- ✓ Performance tested to **BS 848** Parts 1 & 2.
- ✓ **2 Year Guarantee**.

Where round in-line fans just won't go due to height constraints the Vent-Axia **ACCESS PAC** is the answer, cutting a 1/3 off the height of conventional in-line fans. Available in six sizes.

The casing includes an inclined inlet and bellmouth entry which directs the incoming air to the impeller with minimal turbulence. The result is better air management through the unit, less noise, higher efficiency and an increased performance.



The Vent-Axia **ACCESS PAC** range has been designed to produce minimum noise levels for use where quiet operation is required. The housing is designed to be as compact as possible for concealed false ceiling applications. Manufactured in galvanised sheet metal, the Vent-Axia **ACCESS PAC** range has integral anchorage points to allow the fan to be suspended in any plane.

When it comes to flexibility the Vent-Axia **ACCESS PAC** can be fitted directly to circular duct using the spigots provided. To complete the picture a full range of accessories, filters, heaters, silencers, shutters are available for maximum problem solving capability.

MOTORS / IMPELLER
Features an external rotor motor and backward curved impeller assembly specifically chosen for performance and non-overloading characteristics. The assembly is dynamically balanced to **VDI 2060 Class 'Q' 6.3**, motor sizes 100 and 125 rated **IP54**, all other sizes, **IP44** according to **BS EN 60529**. Ball bearings are greased for life and allow the fan to run at any angle. Insulation is **Class 'B'** (from -30°C to + 50°C).

ELECTRICAL
Motors are single phase 220-240V 50Hz. Capacitor start and run. All models are fitted with Standard Thermal Overload Protection (S.T.O.P).

PERFORMANCE / SOUND
Tested to **BS 848** Parts 1 & 2. Published dB(A) figures are free field sound pressure levels at 3m with spherical propagation at a reference level of 2×10^{-5} Pa (20 micro-Pascals). The inlet/outlet sound power level spectra figures are dB with a reference of 10^{-12} Watts (1 pico-watt).

See pages 382-397 for the full range of Accessories.



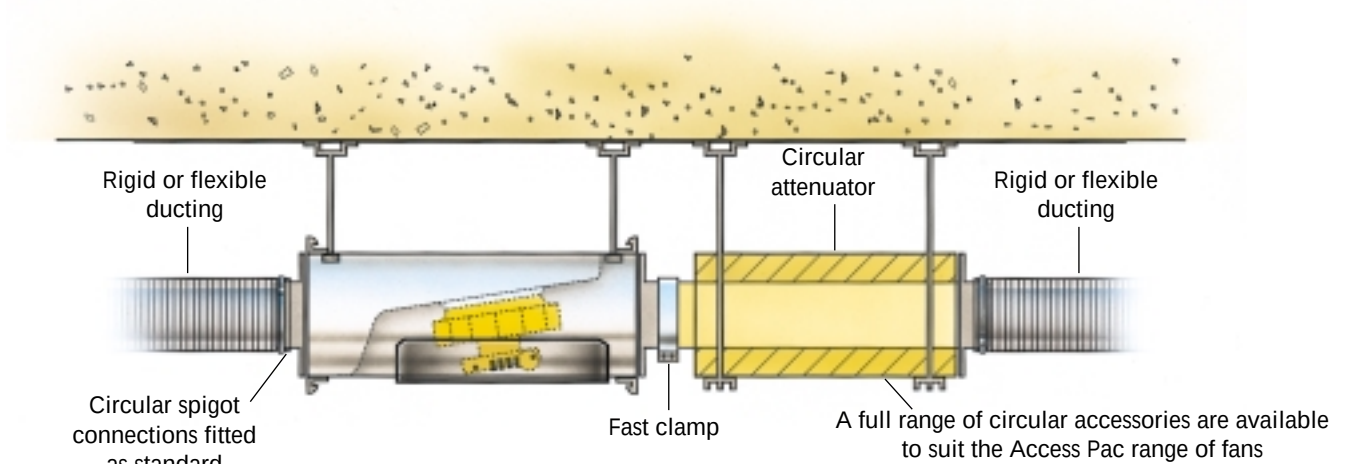
RSC ELV 24V TWO SPEED SELECTOR
The RSC ELV speed selector system offers setback versatility for any Vent-Axia speed controllable fan when used in conjunction with Vent-Axia auto-sensors and speed controllers and utilising **extra low voltage wiring**. **Stock Ref. No. 103 14 230A** (+ appropriate speed controller and sensor).

See pages 383 for full wiring details.

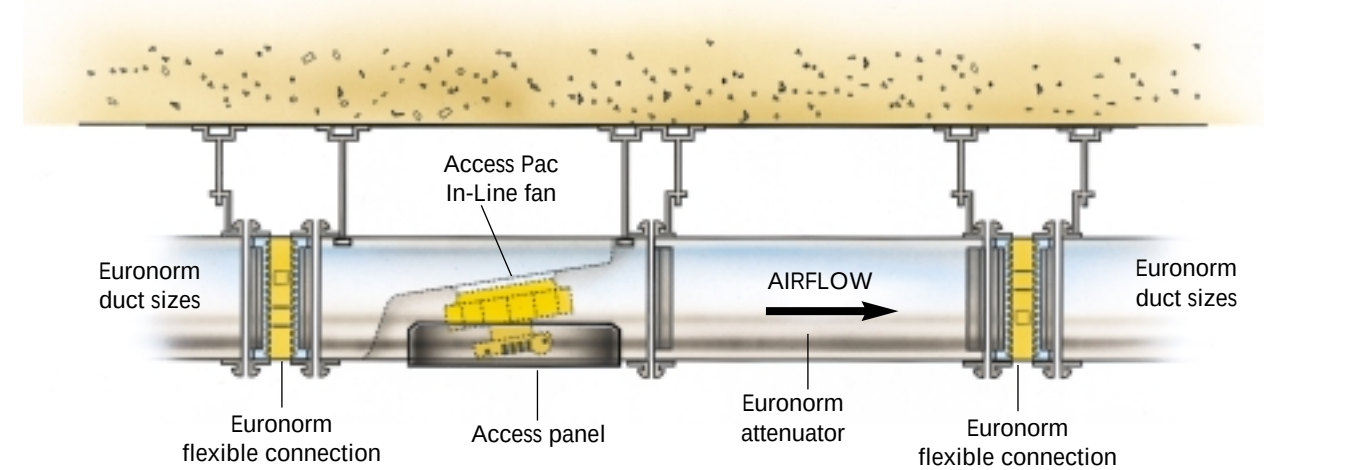
ACCESS™ PAC IN-LINE FANS
PERFORMANCE GUIDE

2 POLE		m³/s at Pa												Motor Watts	S.C. Amps	F.L.C. Amps	Breakout dB(A) @ 3m
Dia.	Motor	Stock Ref. No.	r.p.m.	0	25	50	100	150	200	250	300	350	400				
100	1 phase	PAC100-12	2560	0.073	0.068	0.063	0.054	0.047	0.034	0.018				75	1.0	0.32	37
125	1 phase	PAC125-12	2560	0.091	0.085	0.079	0.07	0.056	0.043	0.024				75	1.0	0.32	35
150	1 phase	PAC150-12	2580	0.104	0.095	0.091	0.08	0.063	0.049	0.024				75	1.0	0.32	41
200	1 phase	PAC200-12	2520	0.214	0.203	0.194	0.177	0.156	0.133	0.109	0.084	0.056		150	1.9	0.65	42
250	1 phase	PAC250-12	2630	0.278	0.260	0.244	0.225	0.201	0.184	0.155	0.127	0.096	0.063	175	2.3	0.75	41
315	1 phase	PAC315-12	2550	0.458	0.437	0.423	0.384	0.342	0.306	0.271	0.243	0.197	0.158	290	4.0	1.3	40

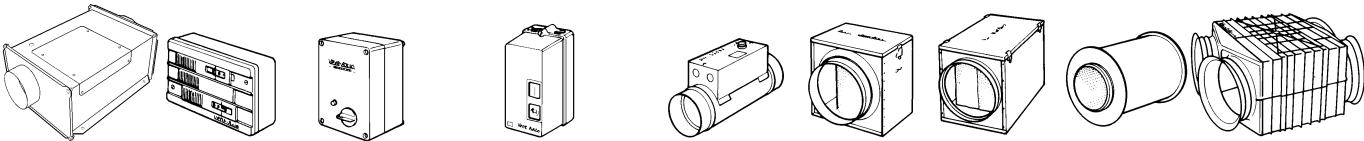
TYPICAL CIRCULAR DUCT INSTALLATION



TYPICAL RECTANGULAR DUCT INSTALLATION

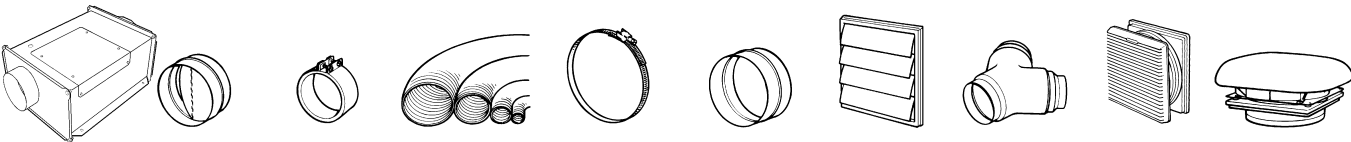


VENT-AXIA
ACCESS™ PAC IN-LINE FANS
ACCESSORIES

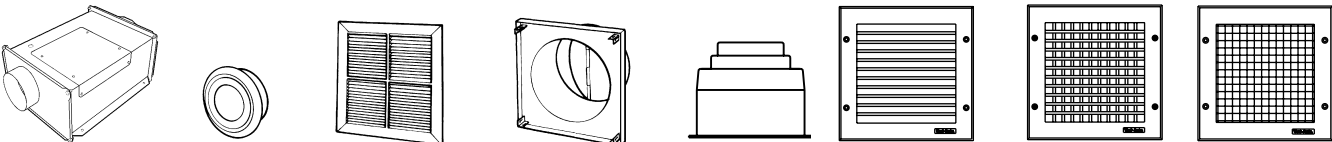


Stock Ref. No.	Electronic controller Stock Ref. No.	Auto transformer Stock Ref. No.	D.O.L. starter & coil Stock Ref. No.	†Duct air heater Stock Ref. No.	Filter cassette Stock Ref. No.	Bag filter cassette Stock Ref. No.	Duct attenuator 600mm* Stock Ref. No.	Heat exchange unit Stock Ref. No.
PAC100-12	W103 03 102M	103 14 103	103 11 240 + 103 12 004	105 31 100	105 32 100A	105 33 100	105 35 100	-
PAC125-12	W103 03 102M	103 14 103	103 11 240 + 103 12 004	105 31 125	105 32 125A	105 33 125	105 35 125	-
PAC150-12	W103 03 102M	103 14 103	103 11 240 + 103 12 004	105 31 150	105 32 150A	105 33 150	105 35 150	-
PAC200-12	W103 03 102M	103 14 103	103 11 240 + 103 12 007	105 31 200	105 32 200A	105 33 200	105 35 200	105 38 290 +105 77 315 +105 78 315
PAC250-12	W103 03 102M	103 14 103	103 11 240 + 103 12 011	105 31 250	105 32 250A	105 33 250	105 35 250	105 38 290 +105 77 315 +105 78 315
PAC315-12	W103 03 102M	103 14 103	103 11 240 + 103 12 018	105 31 315	105 32 315A	105 33 315	105 35 315	105 38 315 +105 77 315

* Also available in 300, 900 and 1200mm lengths.
† Electric Heater Controller available see pages 386-387.



Stock Ref. No.	Backdraught shutter Stock Ref. No.	Fast clamp Stock Ref. No.	Flexible ducting Stock Ref. No.	Worm drive clip Stock Ref. No.	Joining piece Stock Ref. No.	Louvre shutter Stock Ref. No.	3-way splitters Stock Ref. No.	Wall terminal Stock Ref. No.	Roof terminal Stock Ref. No.
PAC100-12	105 42 100	105 40 100	105 39 100	56 17 04	56 18 04	105 01 100	45 20 81	W105 54 150	105 55 150
PAC125-12	105 42 125	105 40 125	105 39 125	56 17 07	56 18 05	105 01 125	45 52 11	W105 54 150	105 55 150
PAC150-12	105 42 150	105 40 150	105 39 150	56 17 07	56 18 06	105 01 150	45 20 83	W105 54 150	105 55 150
PAC200-12	105 42 200	105 40 200	105 39 200	56 17 10	56 18 08	105 01 200	105 51 250	W105 54 200	105 55 200
PAC250-12	105 42 250	105 40 250	105 39 250	56 17 10	56 18 10	105 01 250	105 51 250	W105 54 250	105 55 250
PAC315-12	105 42 315	105 40 315	105 39 315	56 17 15	56 18 13	105 01 315	105 53 400	W105 54 315	105 55 315

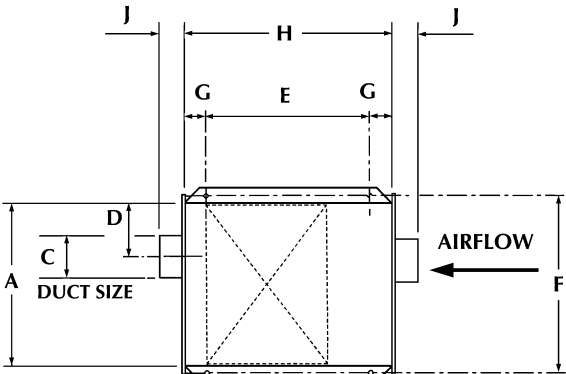


Stock Ref. No.	Circular diffusers Stock Ref. No.	4-way diffusers Stock Ref. No.	Neck adaptors Stock Ref. No.	Plenum Box Stock Ref. No.	Single Deflection Grille Stock Ref. No.	Double Deflection Grille Stock Ref. No.	Eggcrate Grille Stock Ref. No.
PAC100-12	•105 43 100 •105 44 100	--	-	-	-	-	-
PAC125-12	•105 43 125 •105 44 125	-	-	56 06 01	56 13 70	56 13 80	56 13 03
PAC150-12	•105 43 150 •105 44 150	105 46 230	105 47 150	56 06 02	56 13 71	56 13 81	56 13 05
PAC200-12	•105 44 200 •105 44 200	105 46 230	105 47 200	56 06 03	56 13 72	56 13 82	56 13 01
PAC250-12	-	105 46 300	105 47 250	56 06 04	56 13 72	56 13 82	56 13 01
PAC315-12	-	105 46 350 105 46 500	105 47 300 105 48 000	56 06 05	56 13 73	56 13 83	56 13 02

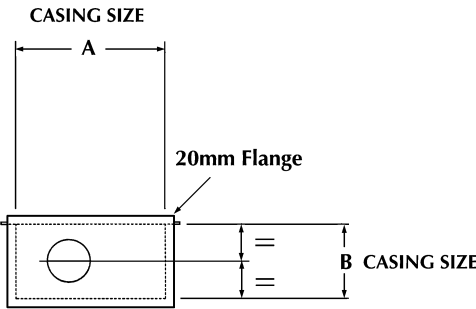
◦ Extract • Supply

ACCESS™ PAC IN-LINE FANS
DIMENSIONS

DIMENSIONS (mm)



Plan



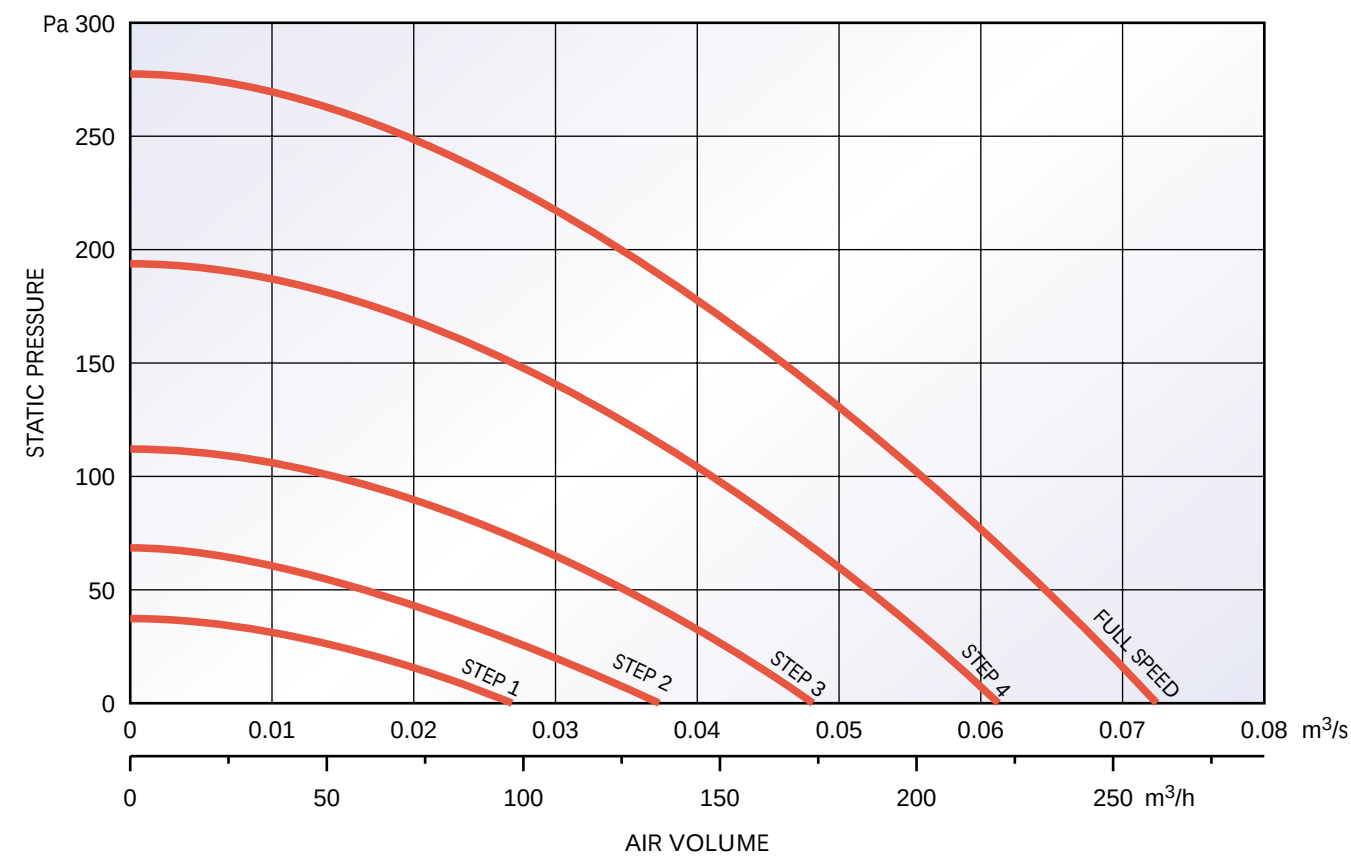
End Elevation

DUCT DIMENSIONS

Circular Duct Ø	Dimensions	Model	A	B	C	D	E	F	G	H	J	Weight Kg
100	350 x 175	PAC100-12	350	175	97	105	380	382	50	480	60	10.2
125	350 x 175	PAC125-12	350	175	122	105	380	382	50	480	60	10.2
150	350 x 175	PAC150-12	350	175	146	105	380	382	50	480	60	10.2
200	400 x 200	PAC200-12	400	200	196	115	380	432	50	480	60	12.8
250	500 x 255	PAC250-12	500	250	246	150	500	532	50	600	60	17.4
315	650 x 350	PAC315-12	650	350	311	195	500	680	50	600	60	25.0

VENT-AXIA
ACCESS™ PAC IN-LINE FANS
PERFORMANCE CURVES

PAC100-12



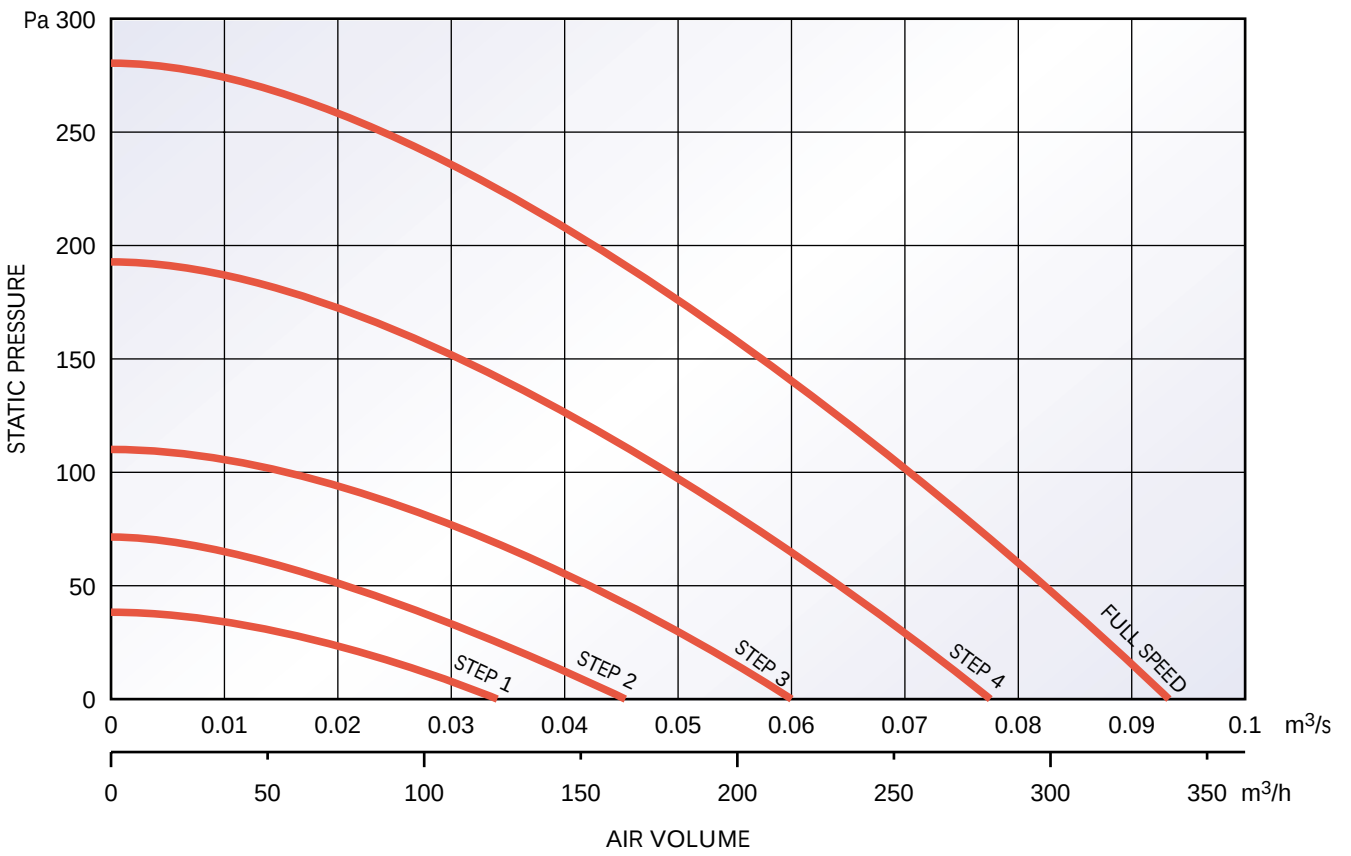
Sound Power Level Spectra dB (re 10⁻¹²Watts)

Speed		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
Full speed	INLET	77	75	67	66	55	53	46	42	45
	OUTLET	76	78	69	66	59	54	51	44	47
	BREAKOUT									37
Step 4	INLET	73	71	63	62	51	48	42	37	41
Auto transformer Controller	OUTLET	72	74	65	62	54	50	47	39	42
	BREAKOUT									32
Step 3	INLET	66	64	56	55	45	42	36	31	35
Auto transformer Controller	OUTLET	65	67	58	55	48	44	40	33	36
	BREAKOUT									26
Step 2	INLET	60	58	50	49	39	36	30	25	28
Auto transformer Controller	OUTLET	59	61	52	49	42	37	34	27	30
	BREAKOUT									20
Step 1	INLET	53	51	43	42	31	28	22	17	21
Auto transformer Controller	OUTLET	52	54	45	42	34	30	27	19	22
	BREAKOUT									13

NOTE:
 Performance & sound levels on Steps 4 to 1, can only be achieved when wired to a 5-Step Auto Transformer speed controller.
 Breakout levels are based on the noise transmitted from the fan casing, actual breakout levels may be higher due to breakout from the system ductwork.

ACCESS™ PAC IN-LINE FANS
PERFORMANCE CURVES

PAC125-12



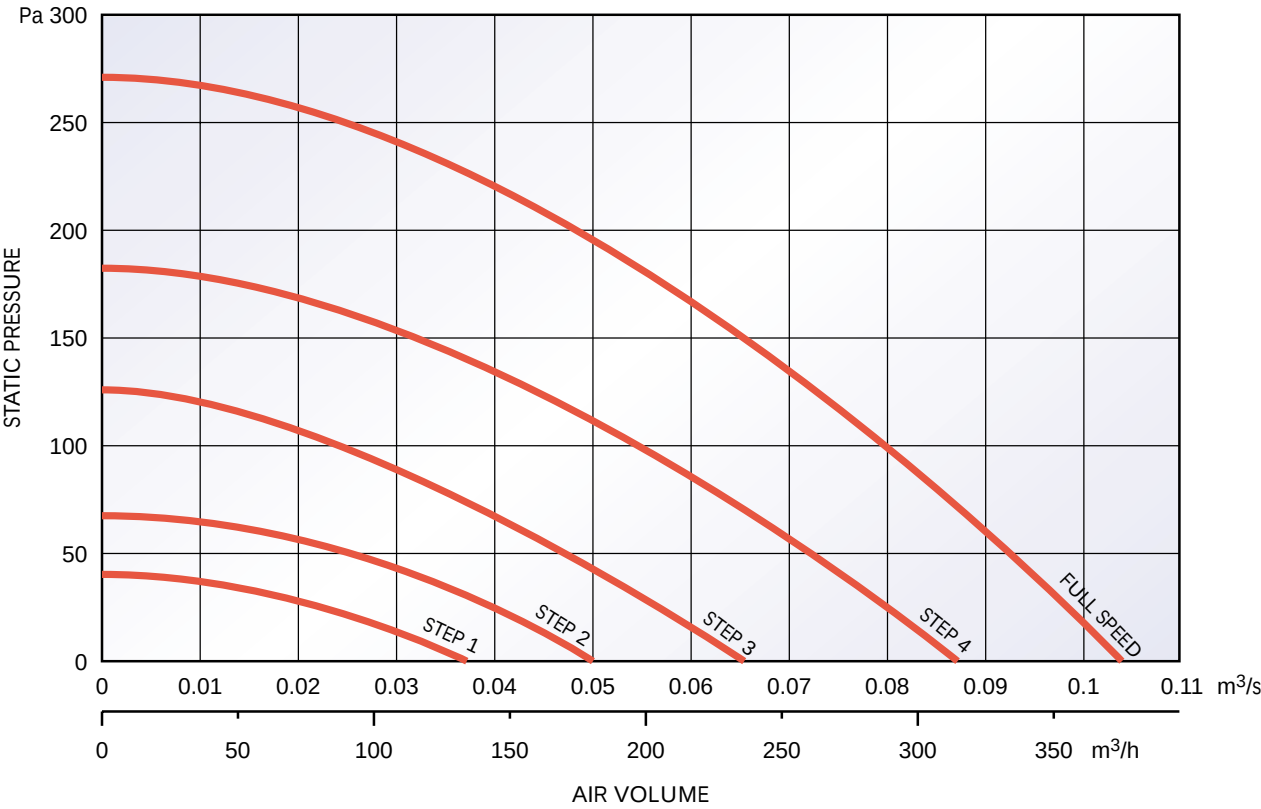
Sound Power Level Spectra dB (re 10⁻¹²Watts)

Speed		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
Full speed	INLET	74	73	66	65	58	57	50	44	45
	OUTLET	76	74	68	66	59	58	54	46	46
	BREAKOUT									35
Step 4	INLET	70	69	62	60	53	52	45	40	40
Auto transformer Controller	OUTLET	72	70	64	61	55	54	50	41	42
	BREAKOUT									30
Step 3	INLET	63	63	55	54	47	46	39	34	34
Auto transformer Controller	OUTLET	65	64	57	55	48	48	43	35	36
	BREAKOUT									24
Step 2	INLET	57	56	49	48	41	40	33	27	28
Auto transformer Controller	OUTLET	59	58	51	49	42	41	37	29	29
	BREAKOUT									18
Step 1	INLET	50	49	42	40	33	32	25	20	21
Auto transformer Controller	OUTLET	52	50	44	41	35	34	30	21	22
	BREAKOUT									11

NOTE:
 Performance & sound levels on Steps 4 to 1, can only be achieved when wired to a 5-Step Auto Transformer speed controller.
 Breakout levels are based on the noise transmitted from the fan casing, actual breakout levels may be higher due to breakout from the system ductwork.

VENT-AXIA
ACCESS™ PAC IN-LINE FANS
PERFORMANCE CURVES

PAC150-12



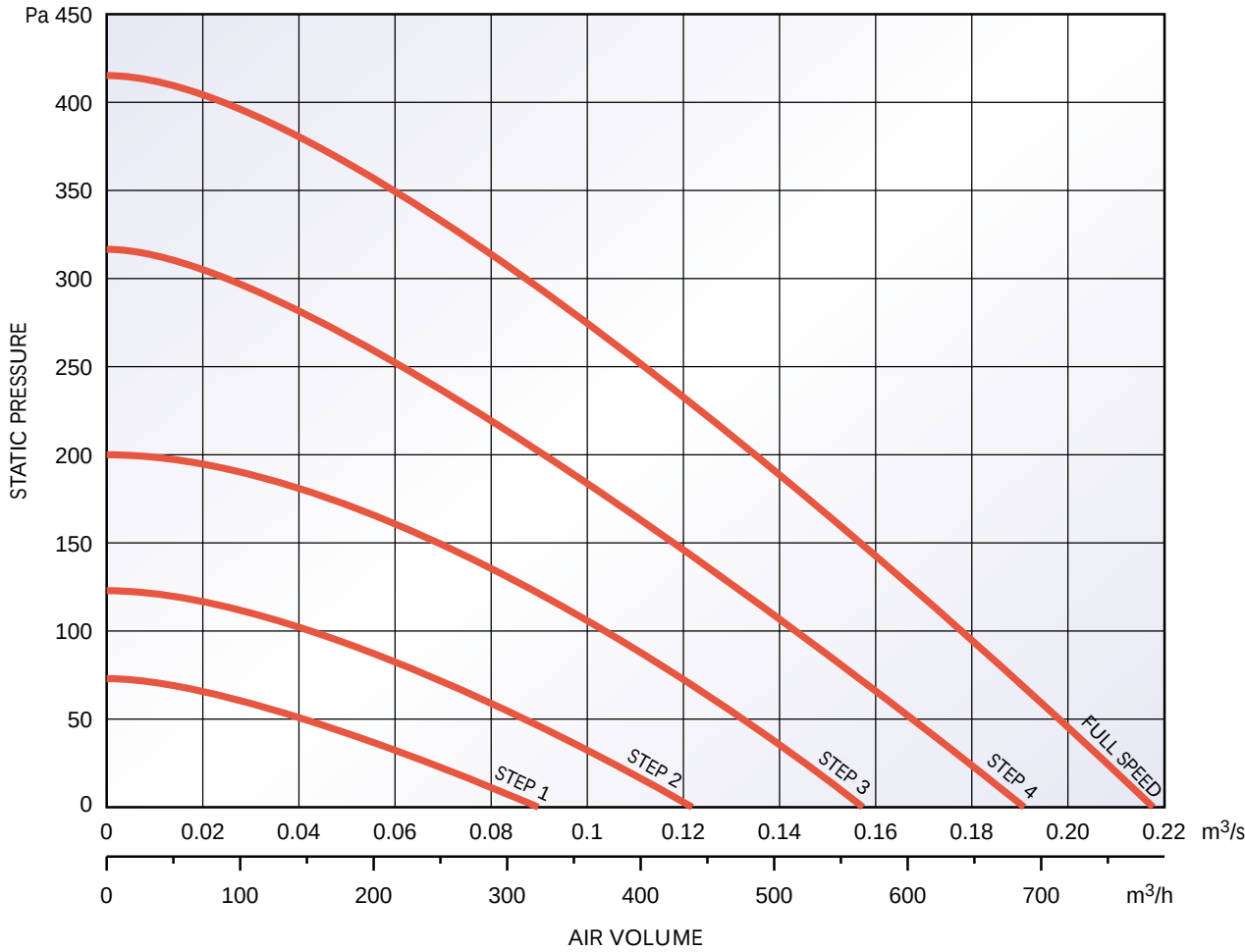
Sound Power Level Spectra dB (re 10⁻¹²Watts)

Speed		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
Full speed	INLET	71	76	72	79	70	69	65	59	57
	OUTLET	72	78	74	76	73	74	69	63	59
	BREAKOUT									41
Step 4	INLET	67	72	67	75	66	65	60	55	53
	OUTLET	68	73	69	71	68	70	64	59	54
	BREAKOUT									37
Step 3	INLET	61	65	61	69	60	58	54	48	47
	OUTLET	62	67	63	65	62	63	58	53	48
	BREAKOUT									31
Step 2	INLET	55	59	55	62	53	52	48	42	41
	OUTLET	55	61	57	59	56	57	52	46	42
	BREAKOUT									24
Step 1	INLET	47	52	47	55	46	45	40	35	33
	OUTLET	48	53	49	51	48	50	44	39	34
	BREAKOUT									17

NOTE:
 Performance & sound levels on Steps 4 to 1, can only be achieved when wired to a 5-Step Auto Transformer speed controller.
 Breakout levels are based on the noise transmitted from the fan casing, actual breakout levels may be higher due to breakout from the system ductwork.

ACCESS™ PAC IN-LINE FANS
PERFORMANCE CURVES

PAC200-12

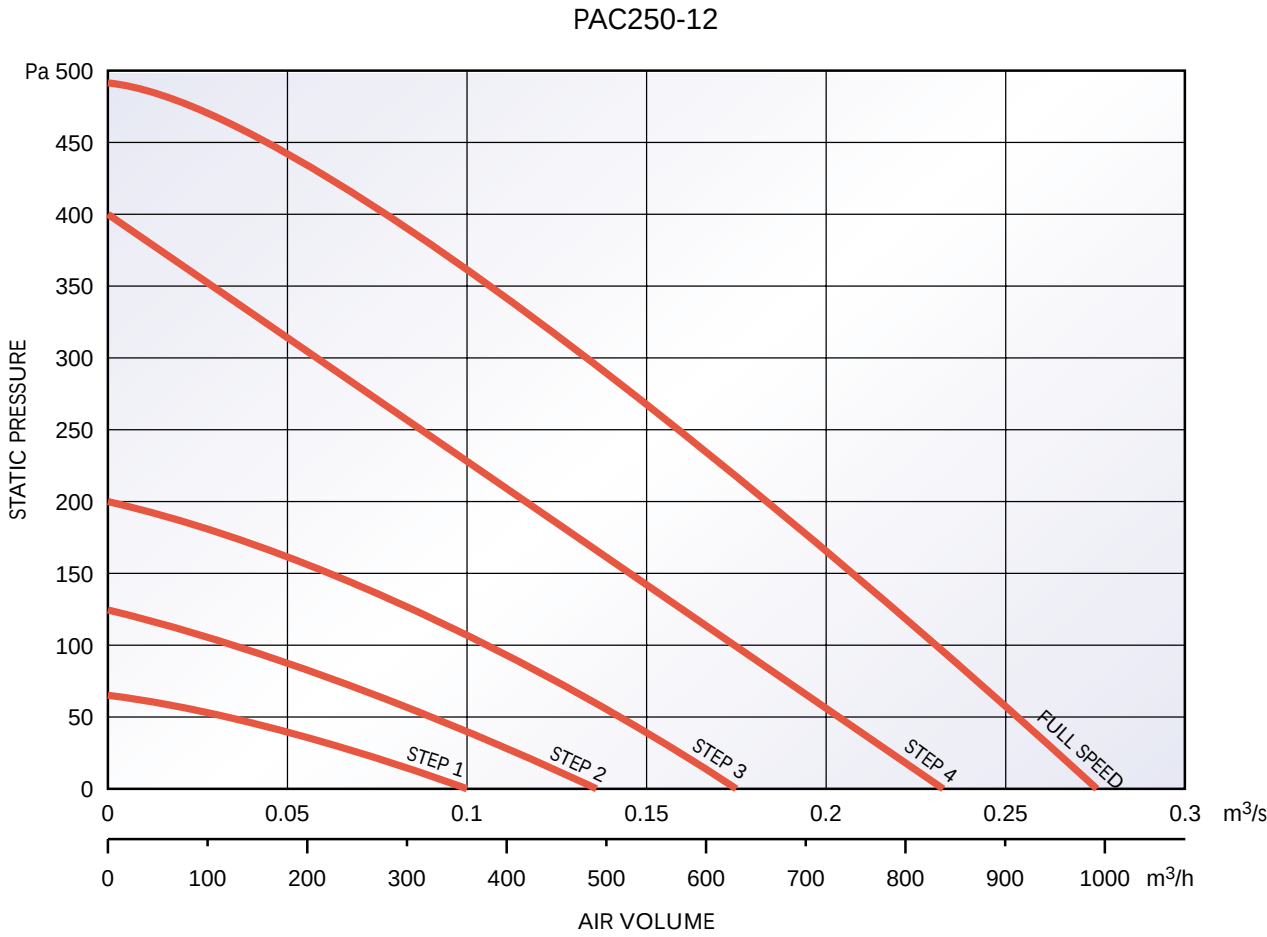


Sound Power Level Spectra dB (re 10⁻¹²Watts)

Speed		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
Full speed	INLET	74	77	70	79	67	65	63	57	56
	OUTLET	73	77	73	73	67	68	64	58	54
	BREAKOUT									42
Step 4	INLET	71	74	67	76	64	62	59	54	53
	OUTLET	70	74	70	70	64	64	61	55	51
	BREAKOUT									38
Step 3	INLET	66	69	62	72	59	57	55	49	49
	OUTLET	65	70	65	65	59	60	56	51	46
	BREAKOUT									34
Step 2	INLET	60	63	56	66	53	51	49	43	43
	OUTLET	59	64	59	59	53	54	50	45	40
	BREAKOUT									28
Step 1	INLET	53	56	49	58	46	44	42	36	35
	OUTLET	52	56	52	52	46	47	43	37	33
	BREAKOUT									17

NOTE:
 Performance sound levels on Steps 4 to 1 can only be achieved when wired to a 5-Step Auto Transformer speed controller.
 Breakout levels are based on the noise transmitted from the fan casing, actual breakout levels may be higher due to breakout from the system ductwork.

VENT-AXIA
ACCESS™ PAC IN-LINE FANS
PERFORMANCE CURVES

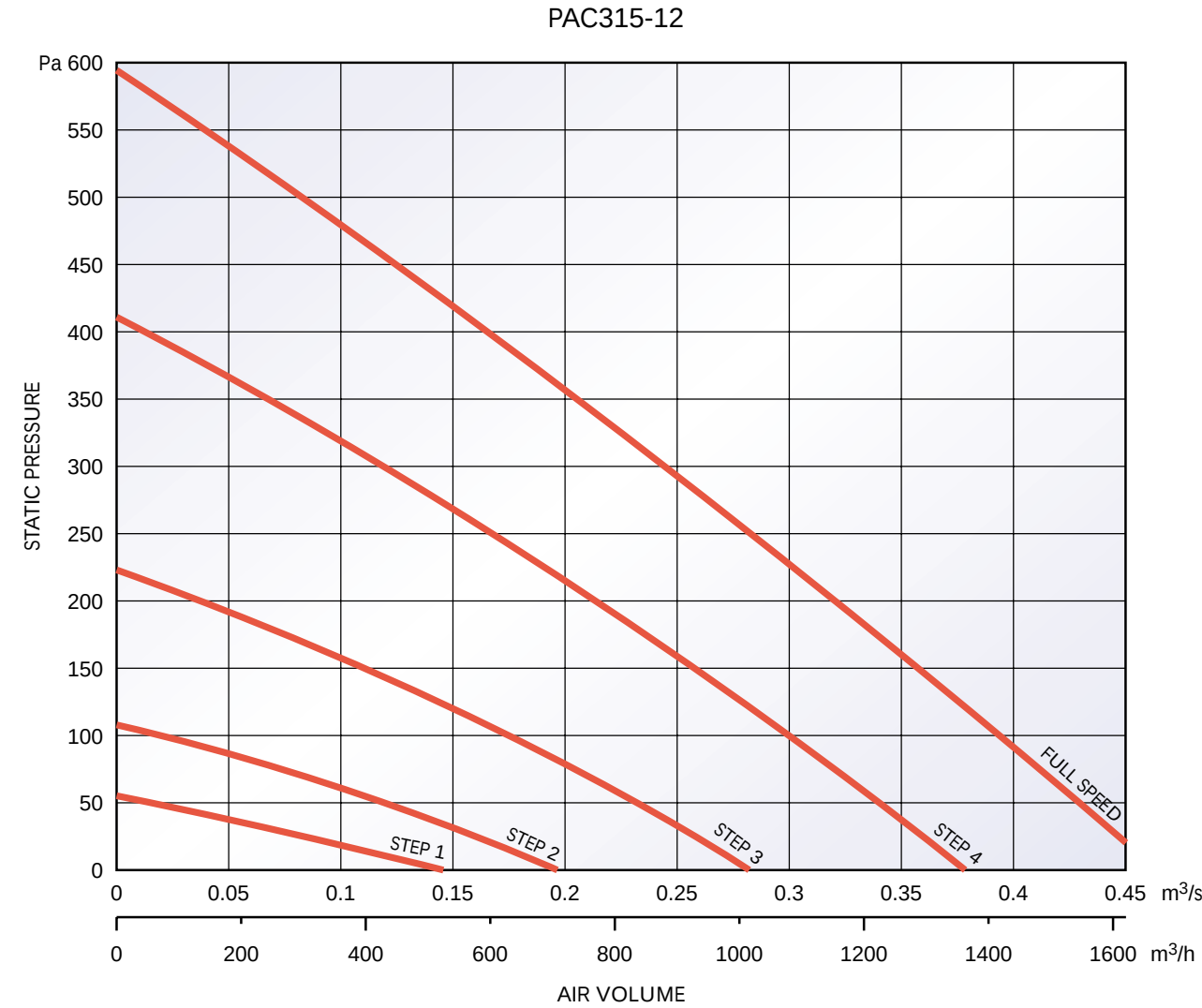


Sound Power Level Spectra dB (re 10⁻¹²Watts)

Speed		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
Full speed	INLET	71	76	72	79	70	69	65	59	57
	OUTLET	72	78	74	76	73	74	69	63	59
	BREAKOUT									41
Step 4	INLET	67	72	67	75	66	65	60	55	53
Auto transformer Controller	OUTLET	68	73	69	71	68	70	64	59	54
	BREAKOUT									37
Step 3	INLET	61	65	61	69	60	58	54	48	47
Auto transformer Controller	OUTLET	62	67	63	65	62	63	58	53	48
	BREAKOUT									31
Step 2	INLET	55	59	55	62	53	52	48	42	41
Auto transformer Controller	OUTLET	55	61	57	59	56	57	52	46	42
	BREAKOUT									24
Step 1	INLET	47	52	47	55	46	45	40	35	33
Auto transformer Controller	OUTLET	48	53	49	51	48	50	44	39	34
	BREAKOUT									17

NOTE:
 Performance & sound levels on Steps 4 to 1, can only be achieved when wired to a 5-Step Auto Transformer speed controller. Breakout levels are based on the noise transmitted from the fan casing, actual breakout levels may be higher due to breakout from the system ductwork.

ACCESS™ PAC IN-LINE FANS
PERFORMANCE CURVES



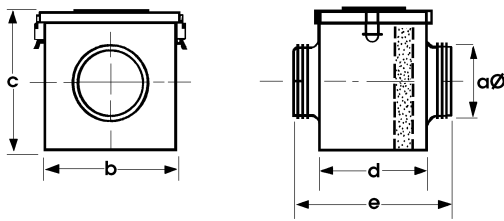
Sound Power Level Spectra dB (re 10⁻¹²Watts)

Speed		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
Full speed	INLET	75	76	76	77	72	71	67	63	58
	OUTLET	73	79	79	78	74	75	69	66	60
	BREAKOUT									40
Step 4	INLET	71	72	72	72	67	67	63	58	53
Auto transformer Controller	OUTLET	69	74	75	74	70	71	65	61	56
	BREAKOUT									36
Step 3	INLET	63	65	65	65	60	59	55	51	46
Auto transformer Controller	OUTLET	62	67	68	67	63	64	57	54	49
	BREAKOUT									29
Step 2	INLET	55	56	56	57	52	51	47	43	37
Auto transformer Controller	OUTLET	53	58	59	58	54	55	49	46	40
	BREAKOUT									20
Step 1	INLET	48	49	49	49	44	44	40	35	30
Auto transformer Controller	OUTLET	46	51	52	51	47	48	42	38	33
	BREAKOUT									13

NOTE:
 Performance & sound levels on Steps 4 to 1, can only be achieved when wired to a 5-Step Auto Transformer speed controller. Breakout levels are based on the noise transmitted from the fan casing, actual breakout levels may be higher due to breakout from the system ductwork.

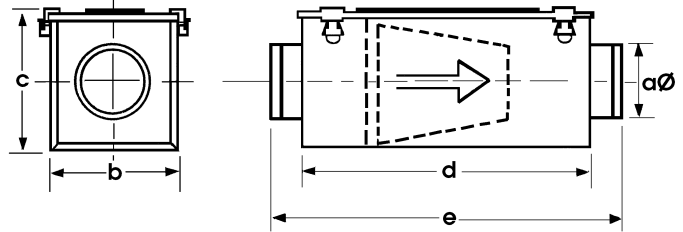
VENT-AXIA ACCESSTM PAC IN-LINE FANS CIRCULAR DUCT ACCESSORIES & DIMENSIONS

PRE-FILTER CASSETTES



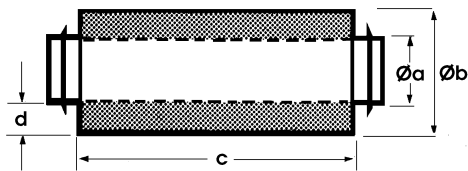
Stock Ref. No.	Øa	b	c	d	e	kg	Spare Filter
105 32 100A	100	205	170	120	227	2	105 56 100A
105 32 125A	125	215	205	140	252	2	105 56 125A
105 32 150A	150	265	235	155	267	3	105 56 150A
105 32 200A	200	315	275	180	302	3.5	105 56 200A
105 32 250A	250	365	325	230	352	5.5	105 56 250A
105 32 315A	315	425	390	330	452	7	105 56 315A

BAG FILTER CASSETTES



Stock Ref. No.	Øa	b	c	d	e	kgs	Spare Filter
105 33 100	100	200	203	450	540	4	105 57 150
105 33 125	125	200	203	450	540	4	105 57 150
105 33 150	150	200	203	450	540	4	105 57 150
105 33 200	200	245	248	450	560	5	105 57 200
105 33 250	250	295	298	500	620	7	105 57 250
105 33 315	315	345	348	550	670	8.5	105 57 315

DUCT ATTENUATORS



Stock Ref. No.	Øa	Øb	c	d	kg
105 34 100	100	200	300	50.0	2.6
105 34 125	125	225	300	50.0	3.6
105 34 150	150	250	300	50.0	4.0
105 35 100	100	200	600	50.0	4.0
105 35 125	125	225	600	50.0	4.5
105 35 150	150	250	600	50.0	6.0
105 35 200	200	315	600	57.5	7.4
105 35 250	250	355	600	52.5	10.2
105 35 315	315	450	600	67.5	13.0

Stock Ref. No.	Øa	Øb	c	d	kg
105 36 100	100	200	900	50.0	7.0
105 36 125	125	225	900	50.0	8.0
105 36 150	150	250	900	50.0	9.0
105 36 200	200	315	900	57.5	11.0
105 36 250	250	355	900	52.5	14.7
105 36 315	315	450	900	67.5	18.0
105 37 200	200	315	1200	57.5	14.0
105 37 250	250	355	1200	52.5	18.5
105 37 315	315	450	1200	67.5	21.5

DUCT ATTENUATOR INSERTION LOSSES

Stock Ref. No.	Length	Duct Ø	63	125	250	500	1k	2k	4k	8k
105 34 100	300	100	3	4	10	18	23	25	25	12
105 34 125	300	125	3	4	8	17	21	23	21	11
105 34 150	300	150	3	3	6	14	20	23	21	11
105 35 100	600	100	5	8	16	33	39	40	36	17
105 35 125	600	125	4	8	13	30	34	35	31	15
105 35 150	600	150	4	7	13	23	29	36	31	15
105 35 200	600	200	4	5	11	21	26	32	20	9
105 35 250	600	250	3	6	10	19	24	29	19	8
105 35 315	600	315	3	5	8	16	21	22	16	15
105 36 100	900	100	10	13	20	39	45	38	35	18
105 36 125	900	125	9	12	18	37	41	37	32	16
105 36 150	900	150	8	9	15	30	37	37	33	17
105 36 200	900	200	7	9	14	27	31	36	25	12
105 36 250	900	250	5	8	13	24	30	31	22	11
105 36 315	900	315	4	7	11	20	31	27	17	12
105 37 200	1200	200	10	12	17	35	40	43	27	13
105 37 250	1200	250	7	9	15	31	36	38	26	12
105 37 315	1200	315	6	8	13	23	32	30	18	11

For the full range of accessories, see pages 382-397.