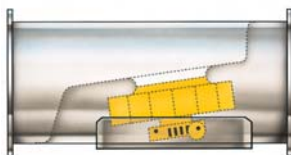


Access™ Pac In-Line Fans (PAC)

Features and Benefits

- 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 $\frac{1}{3}$ 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

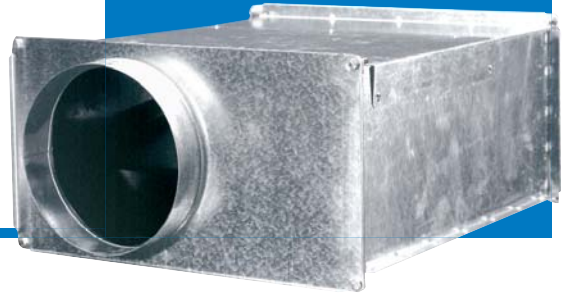
Features an external rotor motor and backward curved impeller assembly specifically chosen for performance and non-overloading characteristics. The assembly is dynamically balanced to VDI 2060 Class 'Q' 6.3, motor sizes 100 and 125 rated IP54, all other sizes, IP44 according to BS EN 60529. Ball bearings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

Electrical

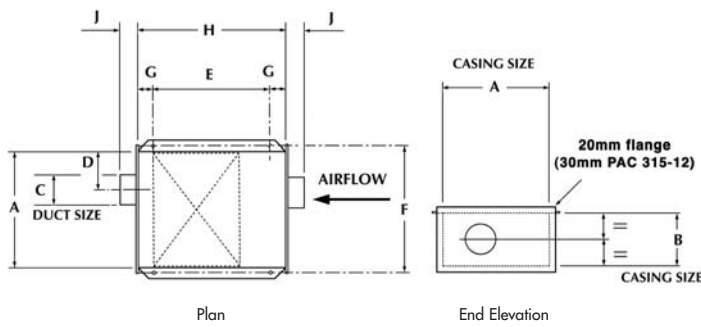
Motors are single phase 220-240V 50Hz. Capacitor start and run. All models are fitted with Standard Thermal Overload Protection (S.T.O.P).

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).

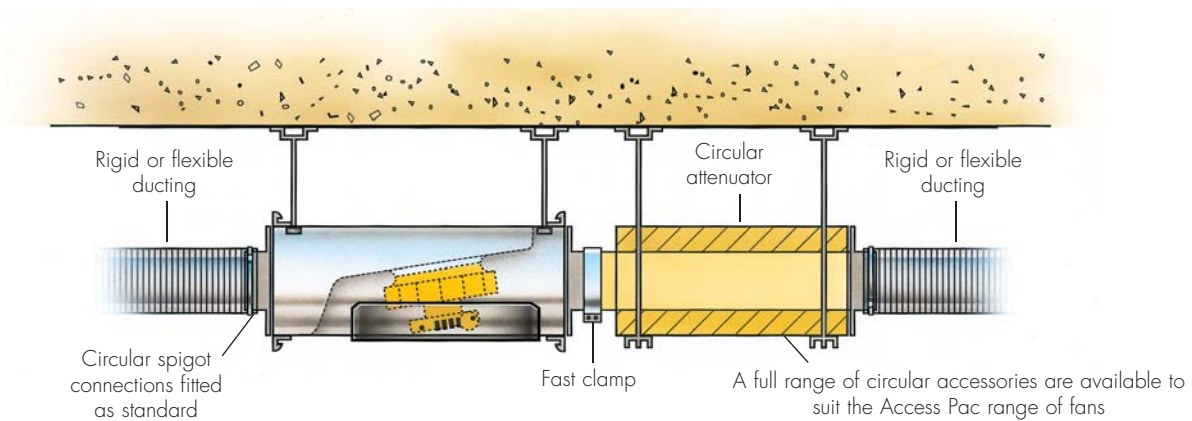


Fan Dimensions (mm)



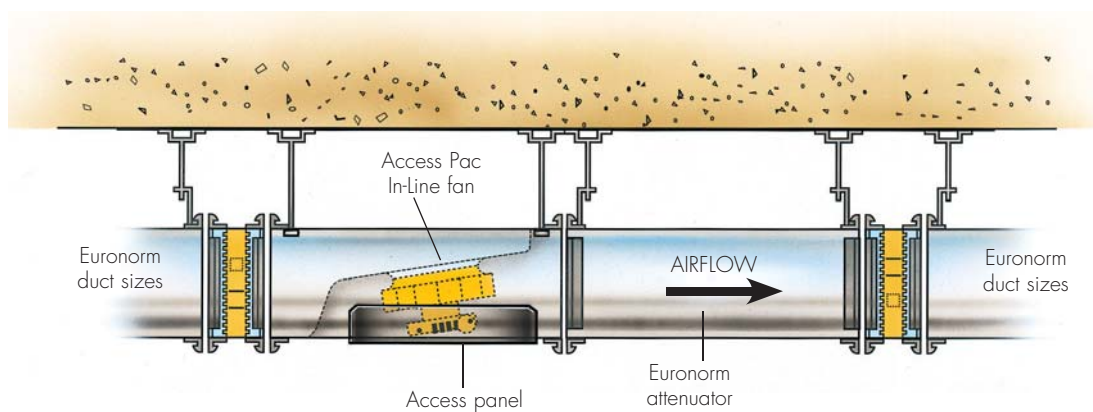
Duct										Weight		
DuctØ	Dimensions	Model	A	B	C	D	E	F	G	H	J	Kg
100	350 x 175	PAC10012	350	175	97	105	380	382	50	480	60	10.2
125	350 x 175	PAC12512	350	175	122	105	380	382	50	480	60	10.2
150	350 x 175	PAC15012	350	175	146	105	380	382	50	480	60	10.2
200	400 x 200	PAC20012	400	200	196	115	380	432	50	480	60	12.8
250	500 x 255	PAC25012	500	250	246	150	500	532	50	600	60	17.4
315	650 x 350	PAC31512	650	350	311	195	500	680	50	600	60	25.0

*Typical Circular Duct Installation



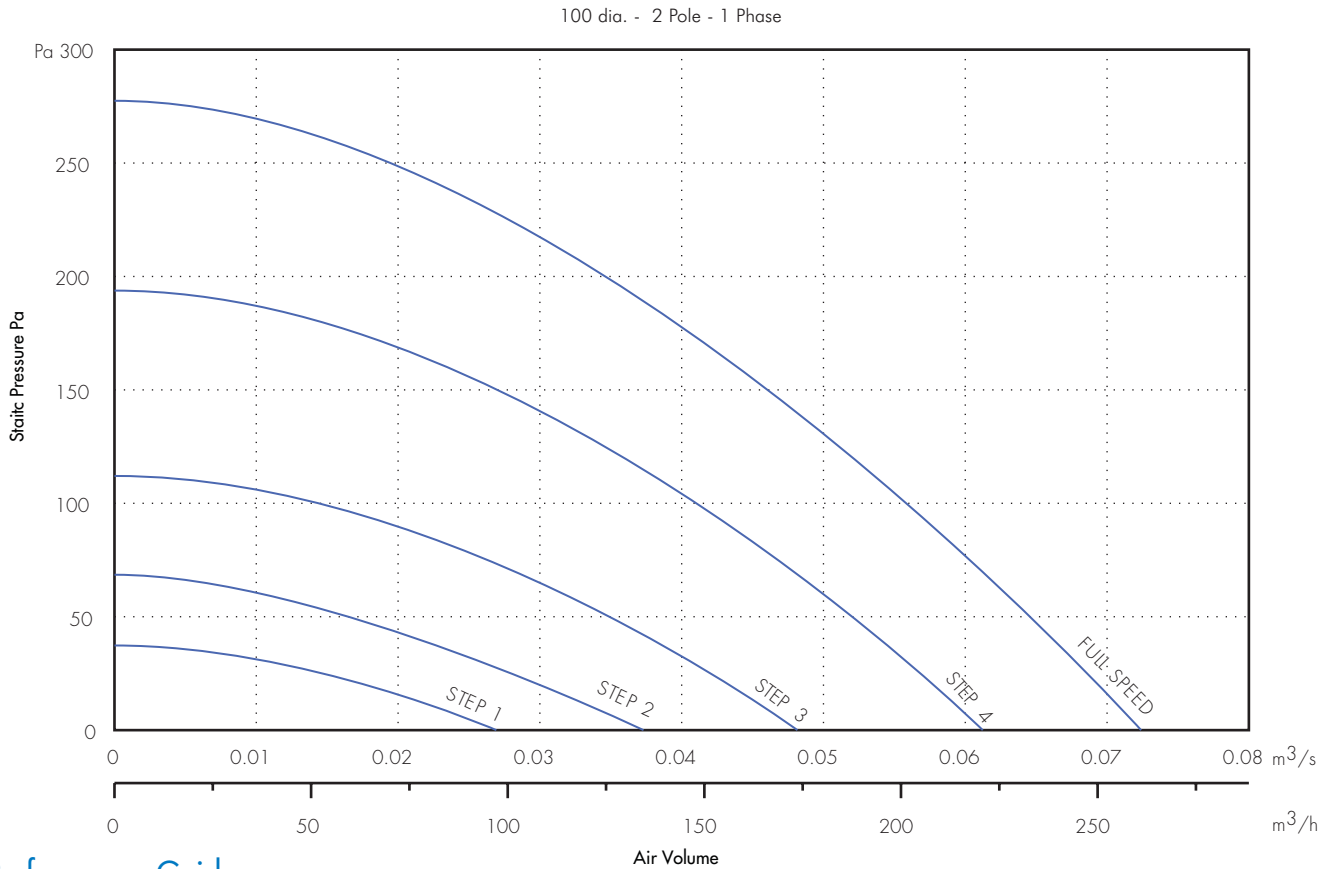
*The standard unit comes with circular spigots that can be removed to give rectangular connections.

Typical Rectangular Installation



Access™ Pack In-Line Fans (PAC)

Performance Curve



Performance Guide

Dia.	Motor	Stock Ref. No.	r.p.m.	m³/s at Pa						Motor Watts	S.C. Amps	F.L.C. Amps	Breakout dBA @ 3m	
				0	25	50	100	150	200					250
100	1 phase	PAC10012	2560	0.073	0.068	0.063	0.054	0.047	0.034	0.018	75	1	0.32	37

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

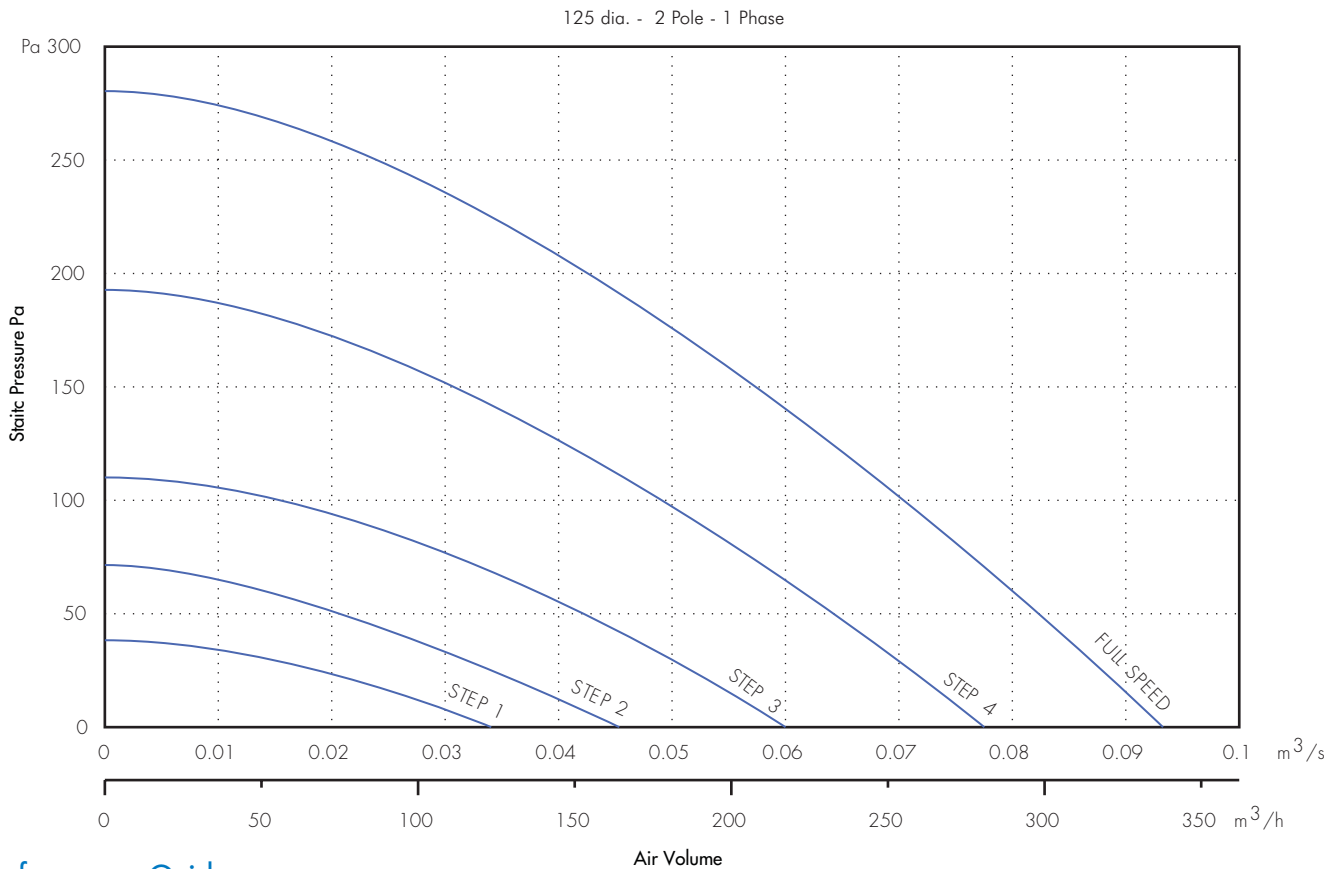
Speed		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
Full speed	INLET	77	75	67	66	55	53	46	42	45
	OUTLET	76	78	69	66	59	54	51	44	47
	BREAKOUT									37
Step 4 Auto transformer Controller	INLET	73	71	63	62	51	48	42	37	41
	OUTLET	72	74	65	62	54	50	47	39	42
	BREAKOUT									32
Step 3 Auto transformer Controller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

Performance Curve



Performance Guide

Dia.	Motor	Stock		m³/s at Pa										Motor Watts	S.C. Amps	F.L.C. Amps	Breakout dBA @ 3m			
		Ref. No.	r.p.m.	0	25	50	100	150	200	250	300	350	400							
125	1 phase	PAC12512	2560	0.091	0.085	0.079	0.07	0.056	0.043	0.024							75	1	0.32	35

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

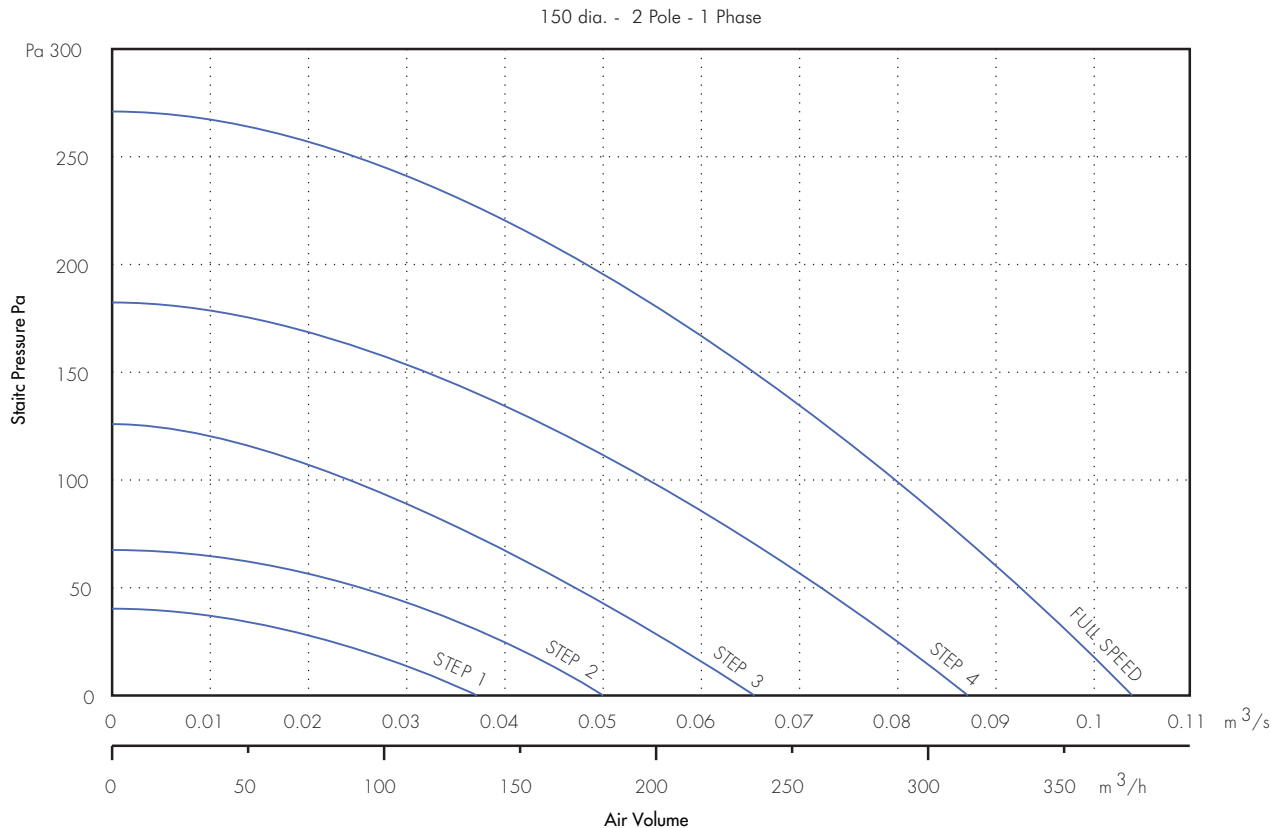
Speed		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
Full speed	INLET	74	73	66	65	58	57	50	44	45
	OUTLET	76	74	68	66	59	58	54	46	46
	BREAKOUT									35
Step 4 Auto transformer Controller	INLET	70	69	62	60	53	52	45	40	40
	OUTLET	72	70	64	61	55	54	50	41	42
	BREAKOUT									30
Step 3 Auto transformer Controller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

Access™ Pack In-Line Fans (PAC)

Performance Curve



Performance Guide

Dia.	Motor	Stock		m³/s at Pa										Motor Watts	S.C. Amps	F.L.C. Amps	Breakout dBA @ 3m			
		Ref. No.	r.p.m.	0	25	50	100	150	200	250	300	350	400							
150	1 phase	PAC15012	2580	0.104	0.095	0.091	0.08	0.063	0.049	0.024							75	1	0.32	41

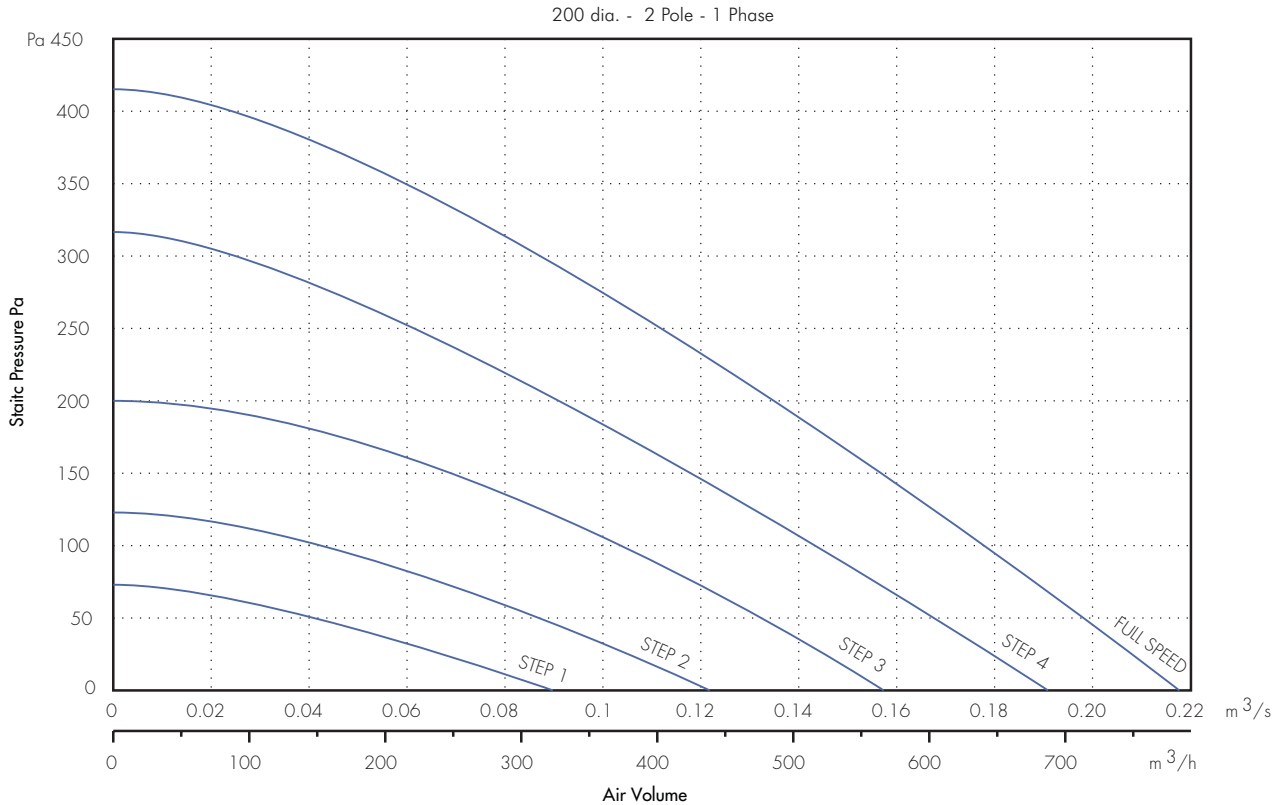
Sound Power Level Spectra dB (re 10⁻¹² Watts)

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 Auto transformer Controller	INLET	67	72	67	75	66	65	60	55	53
	OUTLET	68	73	69	71	68	70	64	59	54
	BREAKOUT									37
Step 3 Auto transformer Controller	INLET	61	65	61	69	60	58	54	48	47
	OUTLET	62	67	63	65	62	63	58	53	48
	BREAKOUT									31
Step 2 Auto transformer Controller	INLET	55	59	55	62	53	52	48	42	41
	OUTLET	55	61	57	59	56	57	52	46	42
	BREAKOUT									24
Step 1 Auto transformer Controller	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.

Performance Curve



Performance Guide

Dia.	Motor	Stock		m³/s at Pa										Motor Watts	S.C. Amps	F.L.C. Amps	Breakout dBA @ 3m
		Ref. No.	r.p.m.	0	25	50	100	150	200	250	300	350	400				
200	1 phase	PAC20012	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	

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

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 Auto transformer Controller	INLET	71	74	67	76	64	62	59	54	53
	OUTLET	70	74	70	70	64	64	61	55	51
	BREAKOUT									38
Step 3 Auto transformer Controller	INLET	66	69	62	72	59	57	55	49	49
	OUTLET	65	70	65	65	59	60	56	51	46
	BREAKOUT									34
Step 2 Auto transformer Controller	INLET	60	63	56	66	53	51	49	43	43
	OUTLET	59	64	59	59	53	54	50	45	40
	BREAKOUT									28
Step 1 Auto transformer Controller	INLET	53	56	49	58	46	44	42	36	35
	OUTLET	52	56	52	52	46	47	43	37	33
	BREAKOUT									17

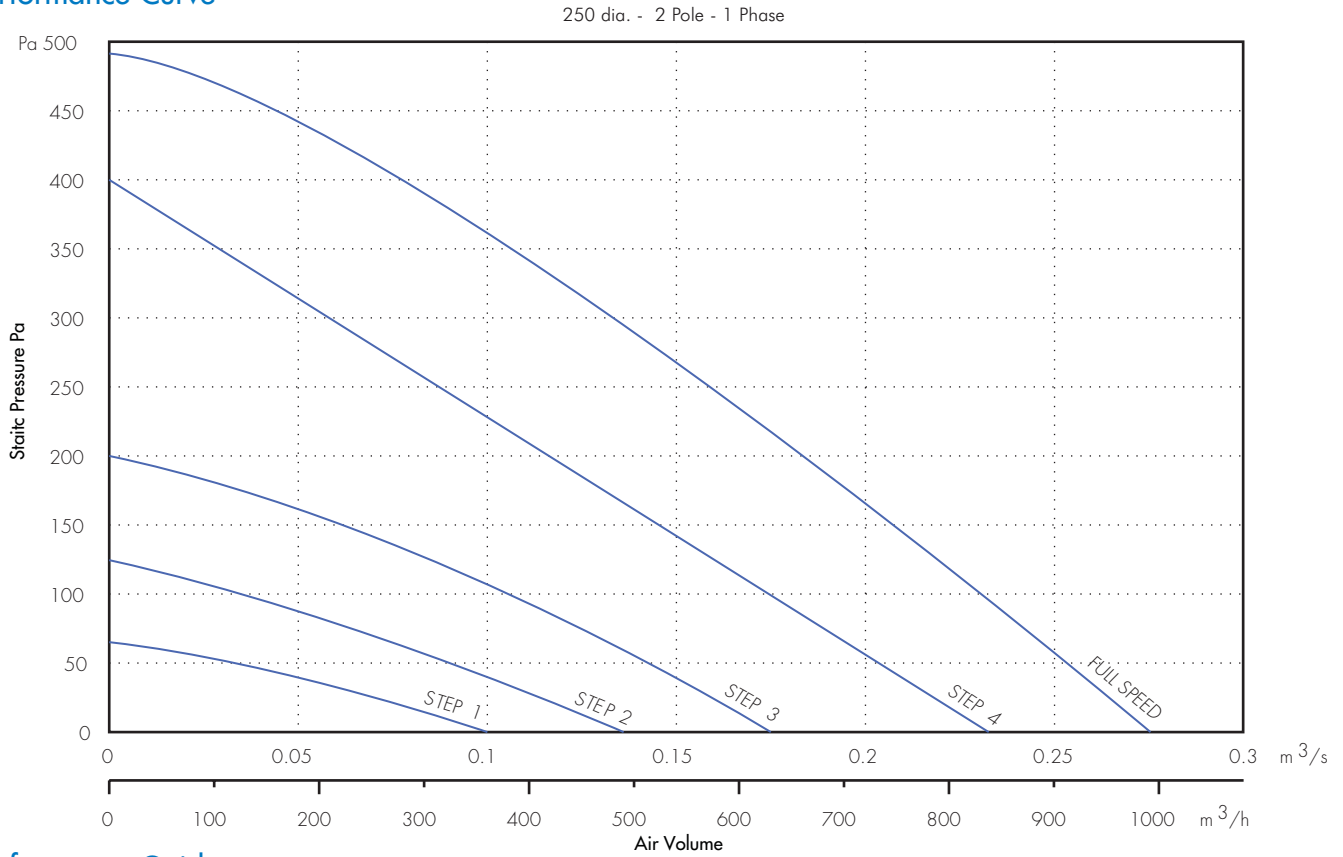
NOTE:

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.

Access™ Pack In-Line Fans (PAC)

Performance Curve



Performance Guide

Dia.	Motor	Stock Ref. No.	r.p.m.	m³/s at Pa										Motor Watts	S.C. Amps	F.L.C. Amps	Breakout dBA @ 3m
				0	25	50	100	150	200	250	300	350	400				
250	1 phase	PAC25012	2630	0.278	0.26	0.244	0.225	0.201	0.184	0.155	0.127	0.096	0.063	175	2.3	0.75	41

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

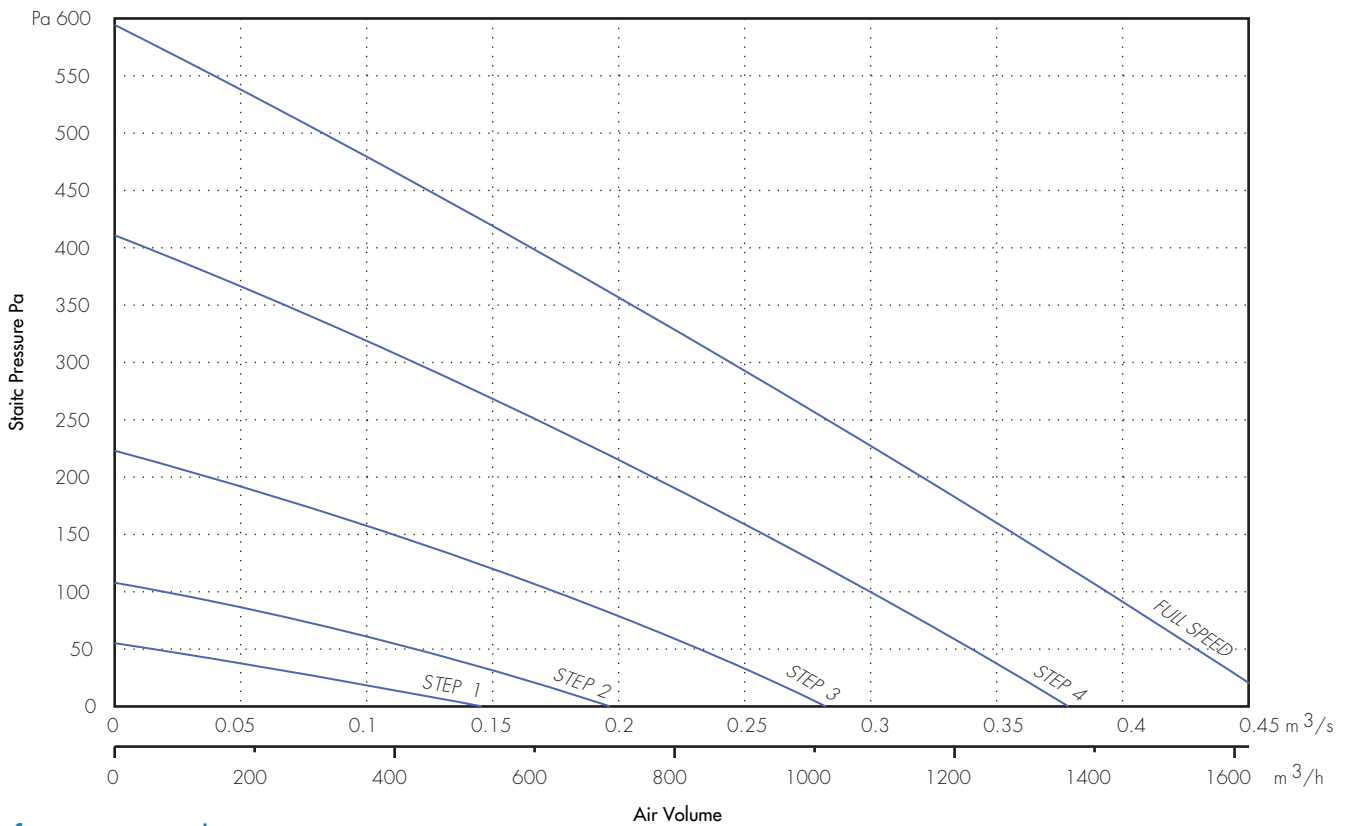
Speed		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
Full speed	INLET	71	76	72	79	70	69	65	59	57
	OUTLET	72	78	74	76	73	74	69	63	59
	BREAKOUT									41
Step 4 Auto transformer Controller	INLET	67	72	67	75	66	65	60	55	53
	OUTLET	68	73	69	71	68	70	64	59	54
	BREAKOUT									37
Step 3 Auto transformer Controller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

Performance Curve

315 dia. - 2 Pole - 1 Phase



Performance Guide

Dia.	Motor	Stock Ref. No.	r.p.m.	m³/s at Pa										Motor Watts	S.C. Amps	F.L.C. Amps	Breakout dBA @ 3m
				0	25	50	100	150	200	250	300	350	400				
315	1 phase	PAC31512	2550	0.458	0.437	0.423	0.384	0.342	0.306	0.271	0.243	0.197	0.158	290	4	1.3	40

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

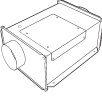


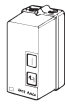
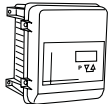
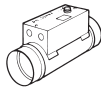

Speed		63	125	250	500	1k	2k	4k	8k	dBA @ 3m
Full speed	INLET	75	76	76	77	72	71	67	63	58
	OUTLET	73	79	79	78	74	75	69	66	60
	BREAKOUT									40
Step 4 Auto transformer Controller	INLET	71	72	72	72	67	67	63	58	53
	OUTLET	69	74	75	74	70	71	65	61	56
	BREAKOUT									36
Step 3 Auto transformer Controller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

NOTE:

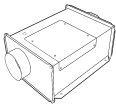


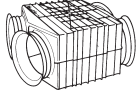


Performance & sound levels on Steps 4 to 1, can only be achieved when wired to a 5-Step Auto Transformer speed controller. Breakout levels are based on the noise transmitted from the fan casing, actual breakout levels may be higher due to breakout from the system ductwork.

Access™ Pack In-Line Fans (PAC)

Accessories

								
Electronic controller	Auto transformer	D.O.L. starter & coil		*eDemand Controller			Duct air heater	Filter cassette
Stock Ref.	Stock Ref.	Stock Ref.	Stock Ref.	Voltage Control	1/3 Phase Inverter	3 Phase Inverter	Stock Ref.	Stock Ref.
PAC10012	W10303102M	10314103	444744 + 444697	444164	-	-	10531100T1	10532100A
PAC12512	W10303102M	10314103	444744 + 444697	444164	-	-	10531125T1	10532125A
PAC15012	W10303102M	10314103	444744 + 444697	444164	-	-	10531150T1	10532150A
PAC20012	W10303102M	10314103	444744 + 444699	444164	-	-	10531200T1	10532200A
PAC25012	W10303102M	10314103	444744 + 444699	444164	-	-	10531250T1	10532250A
PAC31512	W10303102M	10314103	444744 + 444700	444164	-	-	10531315T1	10532315A

*For full range of speed controller options, see Accessories & Controllers Section

								
Stock Ref. No.	Stock Ref.	300mm	600mm	900mm	1200mm	Heat exchange unit	Backdraught shutter	Fast clamp
Stock Ref. No.	Stock Ref.	Stock Ref.	Stock Ref.	Stock Ref.	Stock Ref.	Stock Ref.	Stock Ref.	Stock Ref.
PAC10012	10533100	10534100	10535100	10536100	-	-	10542100	10540100
PAC12512	10533125	10534125	10535125	10536125	-	-	10542125	10540125
PAC15012	10533150	10534150	10535150	10536150	-	-	10542150	10540150
PAC20012	10533200	-	10535200	10536200	10537200	10538290 +10577315 +10578315	10542200	10540200
PAC25012	10533250	-	10535250	10536250	10537250	10538290 +10577315 +10577315	10542250	10540250
PAC31512	10533315	-	10535315	10536315	10537315	10538315 +10577315	10542315	10540315

