

# Vent-Axia Sentinel D-Box Single Fan

The Sentinel single inline duct fans are as supplied from Vent-Axia Ltd. Manufactured from prime quality galvanised sheet steel, Sentinel fan units are internally treated with an 'O' class rated, BS476 part 6 & 7, acoustic foam, which offers the benefits of high sound absorption, good thermal insulation properties, in addition to self extinguishing properties and resistance to ignition.

Weatherproof external units incorporate controller shrouds and are coated externally with a polyurethane finish.

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 housing is designed to be as compact as possible for concealed false ceiling applications and Sentinel casings are specially designed to allow the unit to be mounted via its unique mounting bracket, ensuring a quick and easy solution to installation.

## Impellers

All Sentinel units feature a low energy, Class 1, EC/DC external rotor motor and backward curved impeller assembly specifically chosen for performance and non-overloading characteristics. The assembly is dynamically balanced to DIN

ISO 1940 Grade 6.3, duct size 500mm rated IP54, all other sizes, IP44 according to BS EN 60529. Ball bearings are greased for life. Insulation is Class 'B' (from -25°C to +60°C). All models incorporate internal electronic overload protection and soft start function.

## Electrical

Every Sentinel unit is fitted with a purpose designed common PCB controller incorporating a 16-character backlit alphanumeric x 2 line display with 4 button membrane keypad for fan status and commissioning set up. The enclosure is fitted with a 4-pole 10A isolator that is suitable for fitting a locking device to prevent accidental operation.

Motors are single phase 230V +/- 10% / 50/60Hz / 1ph (size 100-400mm) or 400V +/- 10% / 50/60Hz / 3ph (size 500mm), (4 wire systems only).

24V DC power is provided from the controller for powering the matched range of Sentinel switches and sensors.

## Performance/Sound

Extensively tested to BS848 parts 1 & 2. Published dB(A) figures are free field sound pressure levels at 3m with spherical propagation at reference level of  $2 \times 10^{-5}$  Pa. The inlet/outlet sound power level spectra figures are dB with a reference of  $10^{-12}$  watts.

## Weatherproof Typical Ordering Designation

Ordering Codes are similar to existing units with Suffix.... /W/P which denotes Weatherproof finish.

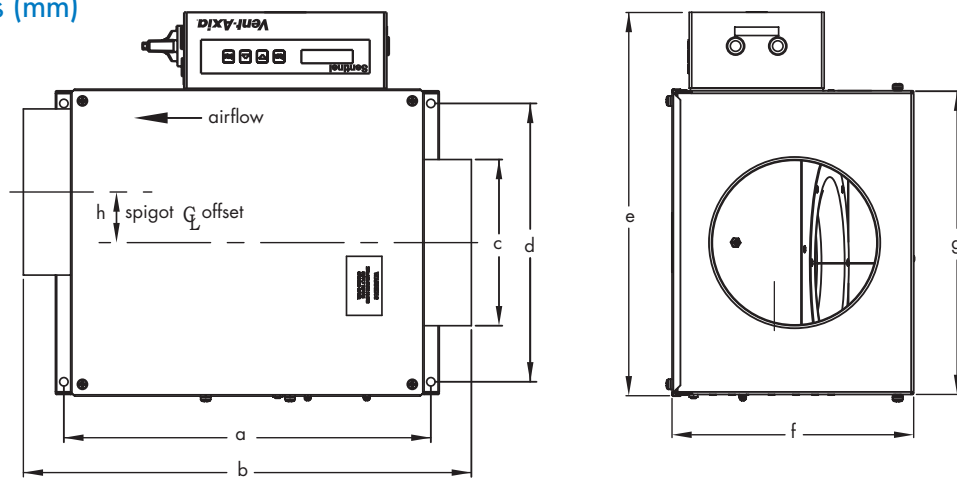
Example SENT100S/CP/W/P

## Accessories

For duct accessories see Ducting and Fitting Section.



## Fan Dimensions (mm)



Hierarchy	Constant Pressure	Duct Diameter mm								Weight Kg
		c	a	b	d	e	f	g	h	
SENT100S	SENT100S/CP	100	380	443	275	400	192	306	62	8.5
SENT125S	SENT125S/CP	125	380	443	275	400	192	306	62	8.5
SENT150S	SENT150S/CP	150	380	443	275	400	192	306	62	8.5
SENT200S	SENT200S/CP	200	435	531	330	453	287	360	60	12.5
SENT250S	SENT250S/CP	250	435	531	330	453	287	360	35	13
SENT315S	SENT315S/CP	315	710	808	540	661	458	568	43	34
SENT400S	SENT400S/CP	400	710	808	540	661	458	568	43	36
SENT500S	SENT500S/CP	500	898	996	735	858	577	765	59	55

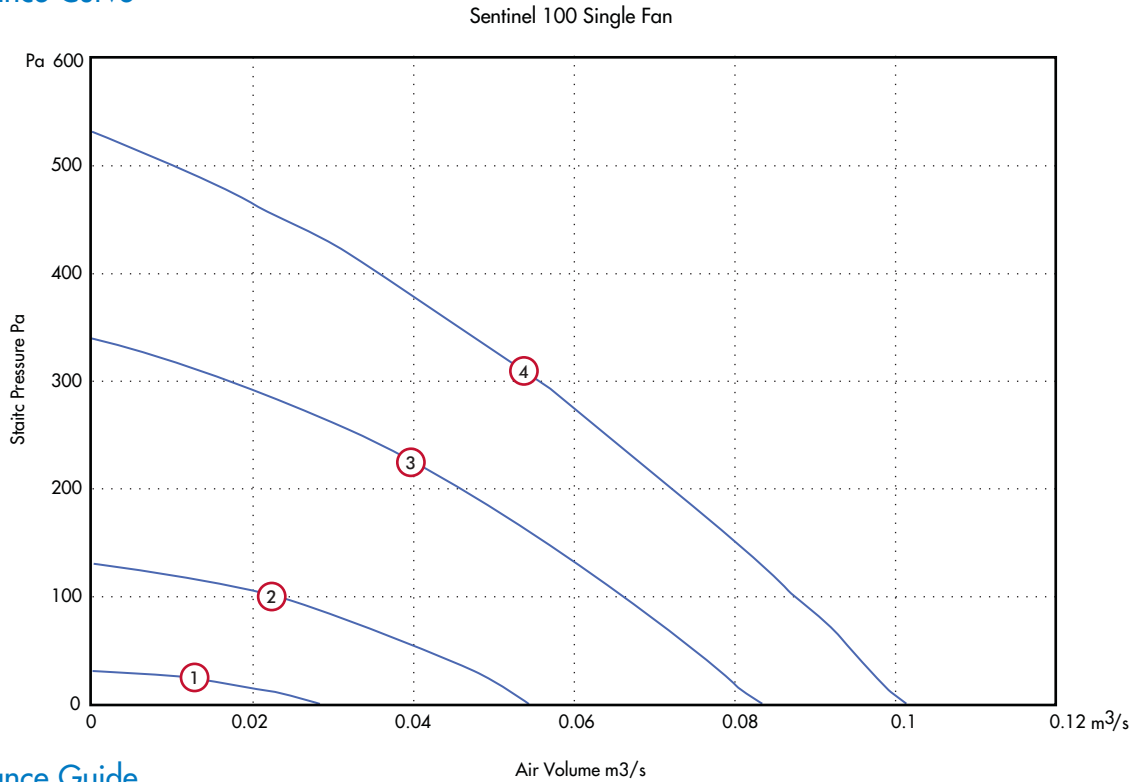
## Accessories

Hierarchy	Model	Anti-Vibration	*Duct			Heat	
		Mounts	Duct air heater	Filter cassette	Bag filter cassette	attenuator 600mm	exchange unit
Model	Model	Stock Ref.	Stock Ref.	Stock Ref.	Stock Ref.	Stock Ref.	
SENT100S	SENT100T/CP	10523033	10531100T1	10532100A	10533100	10535100	-
SENT125S	SENT125T/CP	10523033	10531125T1	10532125A	10533125	10535125	-
SENT150S	SENT150T/CP	10523033	10531150T1	10532150A	10533150	10535150	-
SENT200S	SENT200T/CP	10523033	10531200T1	10532200A	10533200	10535200	10538290 +10577315 +10578315
SENT250S	SENT250T/CP	10523033	10531250T1	10532250A	10533250	10535250	10538290 +10577315 +10578315
SENT315S	SENT315T/CP	10523033	10531315T1	10532315A	10533315	10535315	10538290 +10577315
SENT400S	SENT400T/CP	10523033	10531400T3	10532400A	10533400	10535400	-
SENT500S	SENT500T/CP	10523033	10531500T3	10532500A	10533500	10536500*	-

\*For alternative attenuator lengths, refer to Accessories and Controllers section

# Vent-Axia Sentinel D-Box Single Fan

## Performance Curve



## Performance Guide

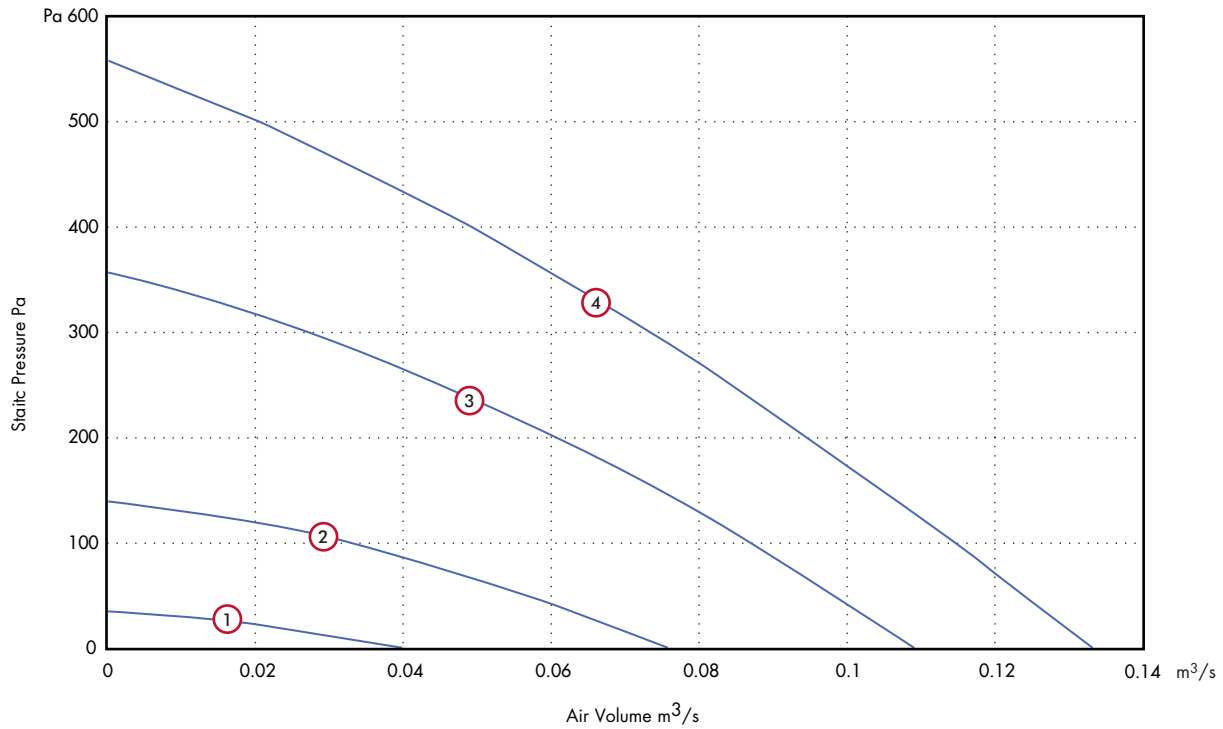
Speed	Phase	Performance	Curve Ref.	Airflow, m³/s @ Pa																Amps F.L.C
				0	25	50	100	125	150	200	250	300	350	375	400	450	500			
100%	1	Airflow	4	0.101	0.097	0.094	0.087	0.084	0.08	0.072	0.064	0.056	0.046	0.041	0.036	0.024	0.011	0.72		
100%	1	SFP		0.84	0.88	0.9	0.98	1.01	1.06	1.18	1.33	1.52	1.85	2.07	-	-	-	0.72		
80%	1	Airflow	3	0.083	0.079	0.075	0.066	0.061	0.056	0.046	0.033	0.018						0.5		
80%	1	SFP		0.46	0.48	0.51	0.58	0.62	0.68	0.83	1.15	2.11						0.5		
50%	1	Airflow	2	0.054	0.048	0.041	0.023	0.008										0.15		
50%	1	SFP		0.33	0.38	0.44	0.78	2.75										0.15		
25%	1	Airflow	1	0.028	0.013													0.08		
25%	1	SFP		0.21	0.46													0.08		

## Sound Data

Speed	Test Mode	Octave Band Frequency SWL								dB(A) @3m
		63	125	250	500	1k	2k	4k	8k	
100%	Inlet	57.2	68.7	68	70.1	59.4	53.1	47.3	41.8	42.5
100%	Outlet	54.9	67.7	70	70.5	68.1	64.6	57.7	49.5	49.3
100%	Breakout	58.7	63.8	63.3	63	54.8	51.2	46.4	42.1	42.2
80%	Inlet	52.2	63.7	63	65.1	54.3	48.1	42.3	36.8	37.5
80%	Outlet	50.1	62.9	65.1	65.6	63.2	59.7	52.9	44.6	44.5
80%	Breakout	53.8	58.9	58.5	58.2	49.9	46.4	41.5	37.2	37.3
50%	Inlet	42.2	53.7	52.9	55.1	44.3	38.1	32.3	26.8	27.5
50%	Outlet	39.9	52.7	54.9	55.4	53	49.5	42.7	34.4	34.3
50%	Breakout	43.6	48.7	48.3	48	39.7	36.2	31.4	27	27.1
25%	Inlet	27.1	38.6	37.9	40	29.2	23	17.2	11.7	12.4
25%	Outlet	24.8	37.6	39.9	40.4	37.9	34.5	27.6	19.4	19.2
25%	Breakout	28.6	33.7	33.2	32.9	24.7	21.1	16.3	11.9	12.1

## Performance Curve

Sentinel 125 Single Fan



## Performance Guide

Speed	Phase	Performance	Curve Ref.	Airflow, m <sup>3</sup> /s @ Pa																Amps F.L.C
				0	25	50	100	125	150	200	250	300	350	375	400	450	500			
100%	1	Airflow	4	0.133	0.129	0.124	0.115	0.11	0.105	0.095	0.084	0.073	0.068	0.061	0.049	0.035	0.02	0.72		
100%	1	SFP		0.64	0.66	0.69	0.74	0.77	0.81	0.89	1.01	1.16	1.25	1.39	1.73	2.43	-	0.72		
80%	1	Airflow	3	0.109	0.104	0.099	0.087	0.081	0.075	0.061	0.045	0.027	0.016	0.003				0.51		
80%	1	SFP		0.35	0.37	0.38	0.44	0.47	0.51	0.62	0.84	1.41	2.38	-				0.51		
50%	1	Airflow	2	0.075	0.066	0.057	0.033	0.015										0.18		
50%	1	SFP		0.29	0.33	0.39	0.67	1.47										0.18		
25%	1	Airflow	1	0.04	0.019													0.09		
25%	1	SFP		0.35	0.74													0.09		

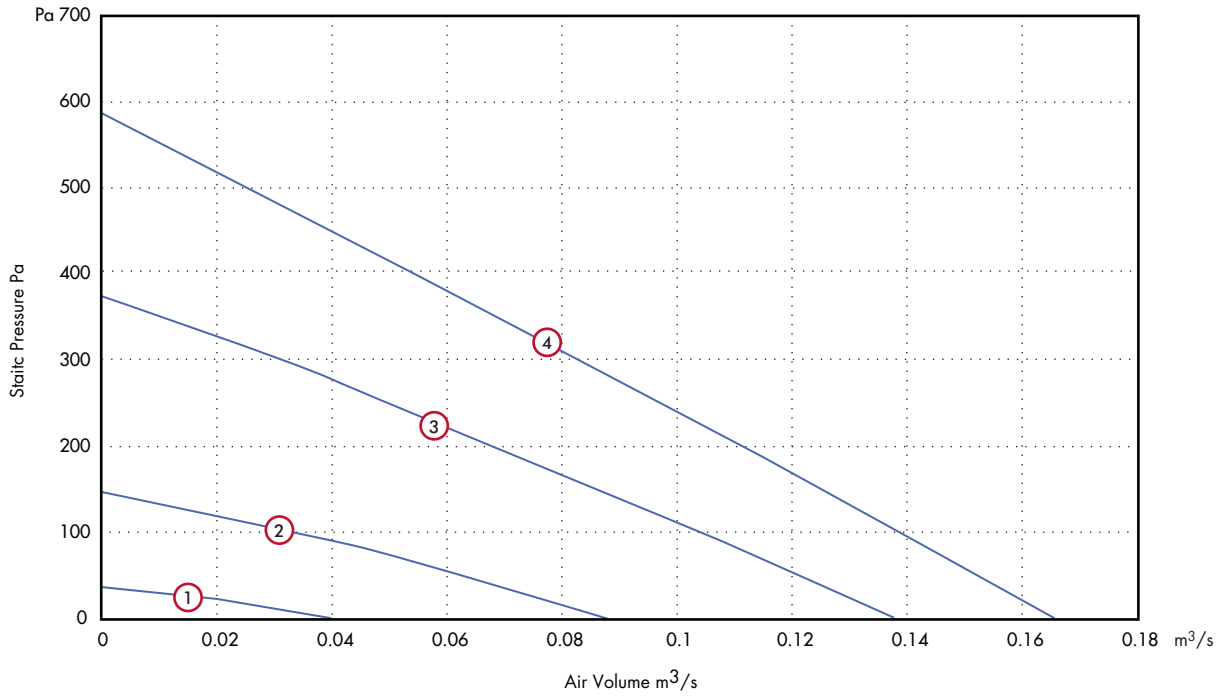
## Sound Data

Speed	Test Mode	Octave Band Frequency SWL								dB(A) @3m
		63	125	250	500	1k	2k	4k	8k	
100%	Inlet	57.9	68.5	68.3	70.5	62.4	57.3	50.8	45.5	44.5
100%	Outlet	58.7	68.4	69.6	74.2	69.7	67.2	61.9	53.7	51.9
100%	Breakout	56.3	59.2	63.4	62.8	56.5	52.1	45.2	38.2	42.3
80%	Inlet	53.1	63.6	63.4	65.7	57.6	52.4	46	40.6	39.7
80%	Outlet	53.9	63.6	64.7	69.4	64.9	62.4	57.1	48.8	47.1
80%	Breakout	51.5	54.3	58.6	58	51.6	47.3	40.4	33.3	37.5
50%	Inlet	42.9	53.4	53.3	55.5	47.4	42.2	35.8	30.4	29.5
50%	Outlet	43.7	53.4	54.5	59.2	54.7	52.2	46.9	38.6	36.9
50%	Breakout	41.3	44.1	48.4	47.8	41.4	37.1	30.2	23.1	27.3
25%	Inlet	27.8	38.3	38.2	40.4	32.3	27.2	20.8	15.4	14.4
25%	Outlet	28.6	38.3	39.4	44.1	39.6	37.1	31.8	23.6	21.8
25%	Breakout	26.2	29.1	33.3	32.7	26.4	22	15.1	8.1	12.2

# Vent-Axia Sentinel D-Box Single Fan

## Performance Curve

Sentinel 150 Single Fan



## Performance Guide

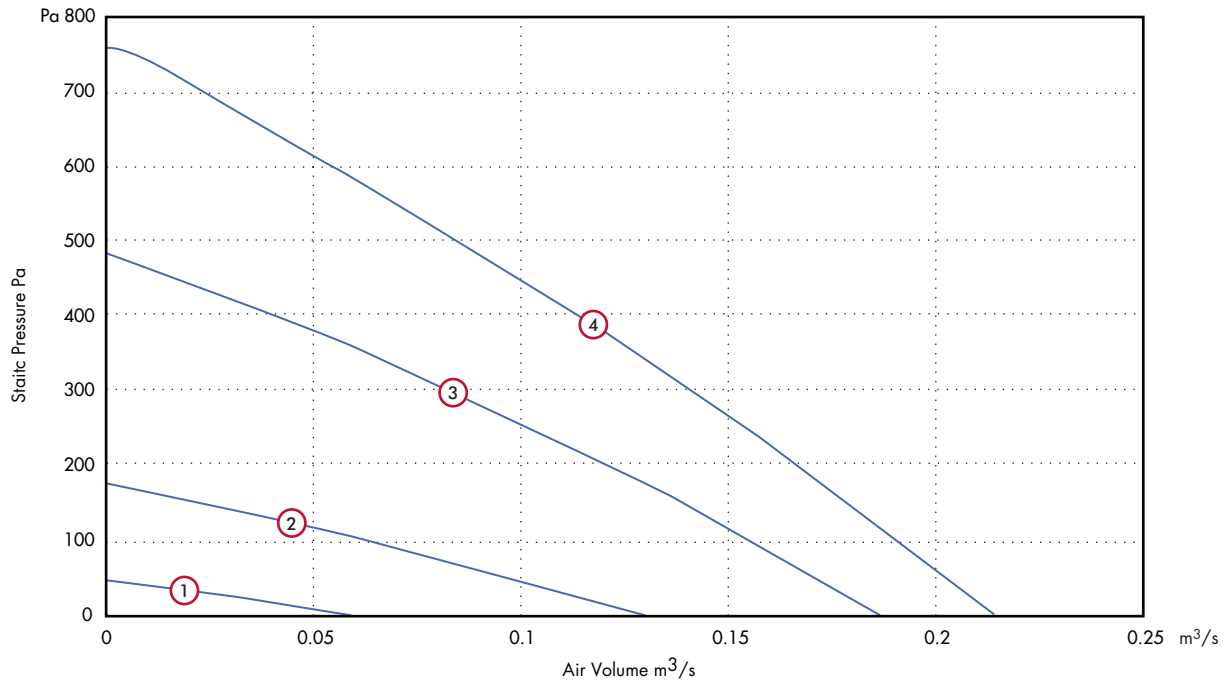
Speed	Phase	Performance	Curve Ref.	Airflow, m³/s @ Pa																Amps F.L.C
				0	25	50	100	125	150	200	250	300	350	375	400	450	500			
100%	1	Airflow	4	0.166	0.159	0.152	0.138	0.131	0.124	0.111	0.096	0.082	0.068	0.054	0.039	0.025	0.011	0.74		
100%	1	SFP		0.52	0.55	0.57	0.63	0.66	0.7	0.78	0.91	1.06	1.28	1.61	2.23	-	-	0.74		
80%	1	Airflow	3	0.138	0.129	0.121	0.104	0.096	0.087	0.069	0.05	0.031	0.011					0.48		
80%	1	SFP		0.28	0.3	0.32	0.38	0.41	0.45	0.57	0.78	1.26	3.55					0.48		
50%	1	Airflow	2	0.088	0.075	0.063	0.033	0.016										0.16		
50%	1	SFP		0.24	0.28	0.33	0.64	1.31										0.16		
25%	1	Airflow	1	0.04	0.015													0.08		
25%	1	SFP		0.18	0.47													0.08		

## Sound Data

Speed	Test Mode	Octave Band Frequency SWL								dB(A) @3m
		63	125	250	500	1k	2k	4k	8k	
100%	Inlet	60	71.5	74	75.2	66.6	61.5	53.6	50	49.8
100%	Outlet	60.2	71.5	73.8	73.8	73.1	70.4	64.6	57.4	55
100%	Breakout	55.8	58.3	62.8	63.9	58	54.4	47	39.6	43.5
80%	Inlet	55.1	66.7	69.1	70.3	61.8	56.7	48.8	45.2	45
80%	Outlet	55.3	66.7	68.9	68.9	68.3	65.6	57.3	52.5	50.1
80%	Breakout	50.9	53.5	57.9	59.1	53.1	49.6	42.2	34.7	38.6
50%	Inlet	44.9	56.4	58.9	60.1	51.5	46.5	38.6	35	34.8
50%	Outlet	45.1	56.5	58.7	58.7	58.1	55.3	47.1	42.3	39.9
50%	Breakout	40.7	43.3	47.7	48.9	42.9	39.4	31.9	24.5	28.4
25%	Inlet	29.9	41.4	43.9	45.1	36.5	31.4	23.6	20	19.7
25%	Outlet	30.1	41.4	43.7	43.7	43.1	40.3	32.1	27.3	24.9
25%	Breakout	25.7	28.2	32.7	33.8	27.9	24.3	16.9	9.4	13.4

## Performance Curve

Sentinel 200 Single Fan



## Performance Guide

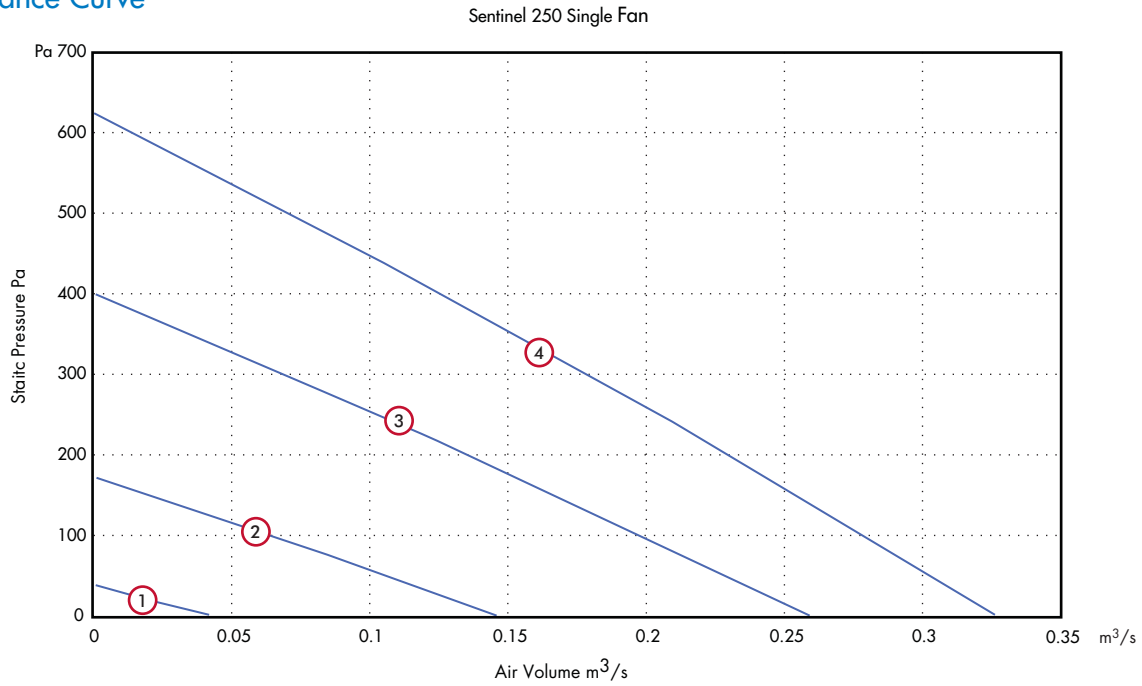
Speed	Phase	Performance	Curve Ref.	Airflow, m³/s @ Pa																Amps F.L.C
				0	25	50	100	150	200	250	300	350	400	450	500	600	700			
100%	1	Airflow	4	0.214	0.208	0.202	0.19	0.178	0.166	0.154	0.141	0.128	0.114	0.099	0.085	0.07	0.054	0.72		
100%	1	SFP		0.81	0.83	0.86	0.91	0.97	1.04	1.12	1.23	1.35	1.52	1.75	2.04	-	-	0.72		
80%	1	Airflow	3	0.186	0.178	0.171	0.154	0.138	0.121	0.103	0.083	0.063	0.041	0.017				0.5		
80%	1	SFP		0.47	0.49	0.51	0.56	0.63	0.72	0.84	1.05	1.38	2.12	-				0.5		
50%	1	Airflow	2	0.13	0.115	0.099	0.064	0.023										0.16		
50%	1	SFP		0.23	0.25	0.3	0.46	1.27										0.16		
25%	1	Airflow	1	0.059	0.031													0.08		
25%	1	SFP		0.15	0.28													0.08		

## Sound Data

Speed	Test Mode	Octave Band Frequency SWL								dB(A) @3m
		63	125	250	500	1k	2k	4k	8k	
100%	Inlet	65.4	74.3	75.1	76.2	70.9	65.2	63.7	57	52.9
100%	Outlet	66.2	74.4	73.7	81.2	78.5	79.2	74.9	68	62.9
100%	Breakout	63.5	61.9	63.3	68.7	63.1	63.3	55.2	41.7	49
80%	Inlet	60.6	69.4	70.3	71.3	66	60.4	58.9	52.2	48.1
80%	Outlet	61.3	69.5	68.8	76.3	73.7	74.4	70.1	63.2	58
80%	Breakout	58.6	57.1	58.4	63.8	58.2	58.4	50.3	36.9	44.2
50%	Inlet	50.4	59.2	60.1	61.1	55.8	50.2	48.7	42	37.9
50%	Outlet	53.4	60.9	68	64.5	60.7	59.6	56.1	47.7	46.6
50%	Breakout	49.6	48.2	56	51.8	44.7	42.9	34.5	30.7	32.4
25%	Inlet	35.3	44.2	45	46.1	40.8	35.1	33.7	27	22.8
25%	Outlet	36.1	44.3	43.6	51.1	48.4	49.1	44.8	37.9	32.8
25%	Breakout	33.4	31.8	33.2	38.6	33	33.2	25.1	11.6	19

# Vent-Axia Sentinel D-Box Single Fan

## Performance Curve



## Performance Guide

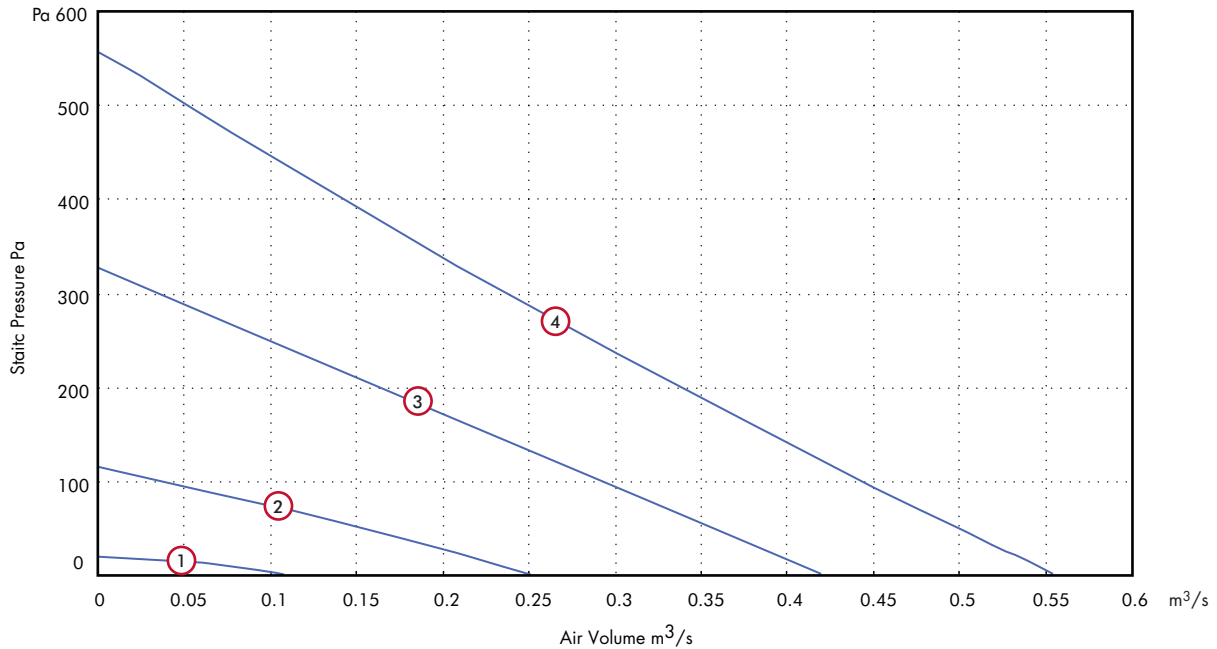
Speed	Phase	Performance	Curve Ref.	Airflow, m³/s @ Pa																Amps F.L.C
				0	25	50	100	150	200	250	300	350	375	400	450	500	550			
100%	1	Airflow	4	0.327	0.315	0.303	0.279	0.254	0.229	0.204	0.178	0.152	0.139	0.125	0.098	0.07	0.042	1.38		
100%	1	SFP		0.43	0.45	0.47	0.51	0.56	0.62	0.69	0.79	0.93	1.01	1.13	1.44	2.01	-	1.38		
80%	1	Airflow	3	0.259	0.244	0.229	0.198	0.167	0.134	0.102	0.068	0.034	0.016					1		
80%	1	SFP		0.27	0.28	0.3	0.35	0.41	0.51	0.68	1.01	2.03	-					1		
50%	1	Airflow	2	0.145	0.124	0.104	0.061	0.017										0.2		
50%	1	SFP		0.18	0.21	0.25	0.43	1.53										0.2		
25%	1	Airflow	1	0.041	0.015													0.07		
25%	1	SFP		0.17	0.47													0.07		

## Sound Data

Speed	Test Mode	Octave Band Frequency SWL								dB(A) @3m
		63	125	250	500	1k	2k	4k	8k	
100%	Inlet	66.7	73.4	73.5	79	69.6	64.6	62	58.8	54.1
100%	Outlet	69	72.9	73.6	78.2	75.5	76.2	70.8	66.7	60.1
100%	Breakout	63.3	64.7	65.8	69.9	64.1	63.3	52.8	43.3	49.9
80%	Inlet	61.8	68.6	68.7	74.1	64.8	59.8	57.2	53.9	49.3
80%	Outlet	64.1	68	68.8	73.3	70.7	71.4	66	61.9	55.2
80%	Breakout	58.5	59.8	61	65.1	59.3	58.5	48	38.4	45
50%	Inlet	51.8	58.5	58.6	64	54.7	49.7	47.1	43.8	39.2
50%	Outlet	50.5	59.2	65.3	59.1	56.2	57.7	55.1	41.4	43.3
50%	Breakout	48.5	51.4	59.8	50.7	45.6	44.7	37.1	31.1	33.9
25%	Inlet	36.6	43.3	43.4	48.9	39.6	34.5	31.9	28.6	24
25%	Outlet	38.9	42.8	43.5	48.1	45.4	46.1	40.7	36.6	30
25%	Breakout	33.2	34.6	35.7	39.8	34	33.2	22.7	13.2	19.8

## Performance Curve

Sentinel 315 Single Fan



## Performance Guide

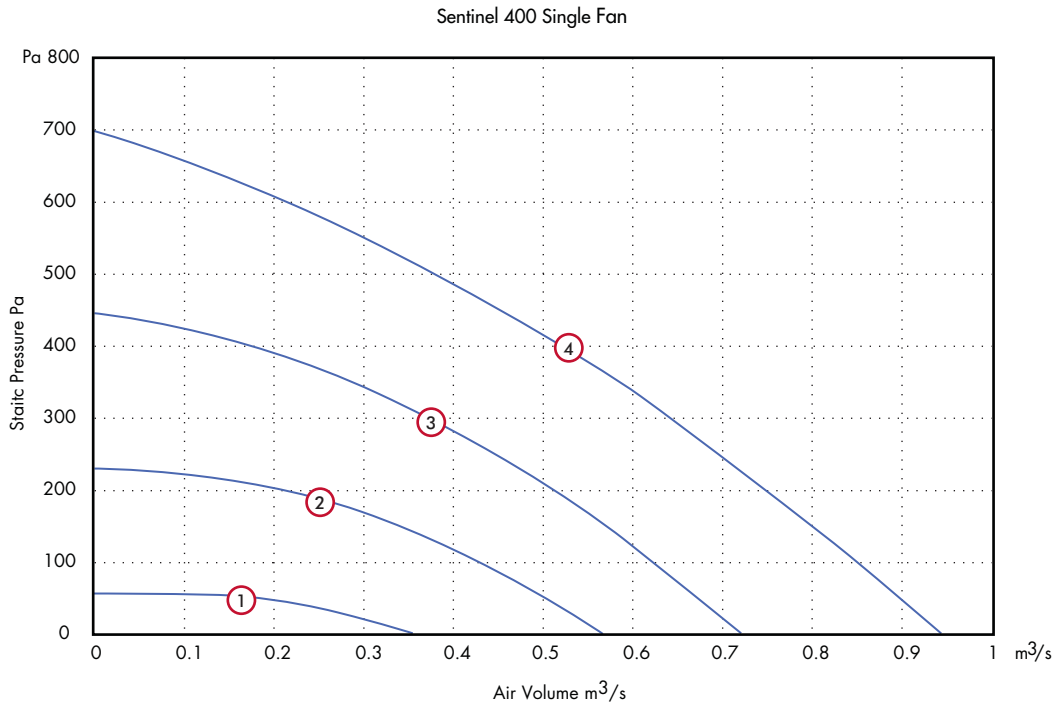
Speed	Phase	Performance	Curve Ref.	Airflow, m³/s @ Pa															FLC	
				0	25	50	100	125	150	200	250	300	350	375	400	450	500	550		
100%	1	Airflow	4	0.556	0.528	0.499	0.444	0.39	0.338	0.287	0.238	0.213	0.189	0.142	0.096	0.074	0.051	0.007	1.36	
100%	1	SFP		0.32	0.34	0.35	0.4	0.45	0.52	0.62	0.74	0.83	0.94	1.25	1.84	2.39	-	-	1.36	
80%	1	Airflow	3	0.425	0.389	0.356	0.291	0.226	0.162	0.099	0.036	0.005								0.50
80%	1	SFP		0.21	0.23	0.25	0.31	0.39	0.55	0.9	2.47	-								0.50
50%	1	Airflow	2	0.253	0.206	0.154	0.038													0.19
50%	1	SFP		0.12	0.15	0.2	0.83													0.19
25%	1	Airflow	1	0.115															0.08	
25%	1	SFP		0.12															0.08	

## Sound Data

Speed	Test Mode	Octave Band Frequency SWL								dB(A) @3m
		63	125	250	500	1k	2k	4k	8k	
100%	Inlet	67.1	74.6	77.5	73.8	66.2	62.8	58.1	53.6	51
100%	Outlet	70.6	75.3	78.9	78.7	76.8	76.4	69.2	63.9	60.5
100%	Breakout	62.8	66.5	69.2	64	58.9	56	47.5	37.9	45.3
80%	Inlet	62.2	69.7	72.7	68.9	61.4	57.9	53.3	48.7	46.1
80%	Outlet	65.7	70.5	74.1	73.9	71.9	71.6	64.4	59.1	55.7
80%	Breakout	57.9	61.6	64.4	59.2	54.1	51.1	42.6	33.1	40.5
50%	Inlet	52	59.5	62.4	58.6	51.1	47.7	43	38.4	35.8
50%	Outlet	55.6	66	66.7	59.2	57.9	58.3	50	38.6	43.8
50%	Breakout	51.4	55.2	55.2	46.1	41.8	36.8	28.4	31.2	29.6
25%	Inlet	37	44.5	47.5	43.7	36.1	32.7	28	23.5	20.9
25%	Outlet	40.4	45.2	48.8	48.6	46.7	46.3	39.1	33.8	30.5
25%	Breakout	32.7	36.4	39.1	33.9	28.8	25.9	17.4	7.8	15.3

# Vent-Axia Sentinel D-Box Single Fan

## Performance Curve



## Performance Guide

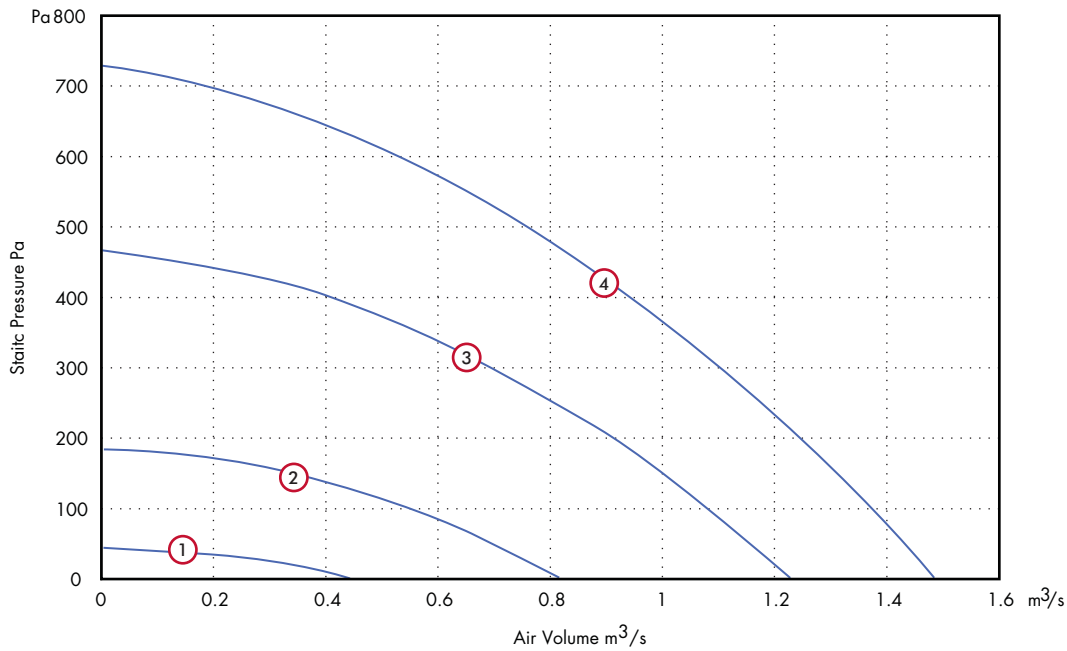
Speed	Phase	Performance	Curve Ref.	Airflow, m³/s @ Pa																Amps F.L.C	
				0	25	50	100	150	200	225	250	300	350	400	425	450	500	550	600		
100%	1	Airflow	4	0.945	0.923	0.899	0.852	0.802	0.751	0.724	0.698	0.641	0.582	0.519	0.487	0.453	0.381	0.302	0.214	2.47	
100%	1	SFP		0.51	0.52	0.54	0.57	0.6	0.64	0.67	0.69	0.76	0.83	0.93	0.99	1.07	1.27	1.60	2.26	2.47	
80%	1	Airflow	3	0.72	0.697	0.673	0.623	0.569	0.51	0.478	0.445	0.372	0.285	0.174	0.098						1.80
80%	1	SFP		0.3	0.31	0.32	0.35	0.38	0.43	0.45	0.49	0.58	0.76	1.25	2.21						1.80
50%	1	Airflow	2	0.566	0.535	0.503	0.43	0.341	0.214	0.089											0.59
50%	1	SFP		0.22	0.24	0.25	0.3	0.37	0.59	1.43											0.59
25%	1	Airflow	1	0.353	0.288	0.177															0.13
25%	1	SFP		0.05	0.06	0.1															0.13

## Sound Data

Speed	Test Mode	Octave Band Frequency SWL								dB(A) @3m
		63	125	250	500	1k	2k	4k	8k	
100%	Inlet	78	86.2	86.7	74.6	69.9	66.3	60.9	53.1	57.1
100%	Outlet	77.7	87	92.3	80.5	79.4	75.6	70.3	62.8	64.3
100%	Breakout	76.8	84.9	84.8	78.9	74	68.5	60.6	51.9	65.3
80%	Inlet	72	80	79.9	74.1	69.2	63.7	55.7	47.1	55.5
80%	Outlet	72.8	82.2	87.5	75.6	74.6	70.8	65.4	58	59.4
80%	Breakout	73.2	81.4	81.9	69.7	65.1	61.5	56	48.3	52.2
50%	Inlet	61.8	69.8	69.7	63.9	59	53.5	45.5	36.9	45.3
50%	Outlet	62.6	72	77.3	65.4	64.4	60.6	55.2	47.8	49.1
50%	Breakout	62.9	71.2	71.7	59.5	54.9	51.2	45.8	38.1	42
25%	Inlet	46.8	54.8	54.7	48.8	44	38.4	30.5	21.8	30.3
25%	Outlet	47.6	56.9	62.3	50.4	49.4	45.5	40.2	32.7	34.3
25%	Breakout	47.9	56.2	56.7	44.5	39.8	36.2	30.8	23.1	27

## Performance Curve

Sentinel 500 Single Fan



## Performance Guide

Speed	Phase	Performance	Curve Ref.	Airflow, m³/s @ Pa																	Amps F.L.C
				0	25	50	100	150	175	200	250	300	350	400	450	500	550	600	650		
100%	3	Airflow	4	1.489	1.46	1.43	1.37	1.307	1.275	1.242	1.173	1.101	1.024	0.943	0.855	0.759	0.653	0.531	0.383	2.10	
100%	3	SFP		0.6	0.62	0.63	0.66	0.69	0.7	0.72	0.77	0.82	0.88	0.95	1.05	1.18	1.38	1.69	2.34	2.10	
80%	3	Airflow	3	1.234	1.198	1.16	1.082	0.998	0.954	0.907	0.808	0.696	0.566	0.404	0.159						1.60
80%	3	SFP		0.32	0.33	0.34	0.37	0.4	0.41	0.44	0.49	0.57	0.7	0.98	2.48						1.60
50%	3	Airflow	2	0.822	0.762	0.698	0.546	0.335	0.148												0.67
50%	3	SFP		0.29	0.31	0.34	0.44	0.71	1.61												0.67
25%	3	Airflow	1	0.449	0.312																0.23
25%	3	SFP		0.1	0.15																0.23

## Sound Data

Speed	Test Mode	Octave Band Frequency SWL								dB(A) @3m
		63	125	250	500	1k	2k	4k	8k	
100%	Inlet	81.1	95.1	86.7	79.6	71.2	67.2	61.2	62.5	60.3
100%	Outlet	81.6	92.9	88	84.9	81.5	76	70.4	69.9	65.7
100%	Breakout	78.4	88.8	84.8	81.7	75.3	67.8	59.7	55.4	61.9
80%	Inlet	76.3	90.3	81.9	74.8	66.4	62.4	56.4	57.7	55.5
80%	Outlet	76.8	88.1	83.2	80.1	76.7	71.2	65.6	65.1	60.9
80%	Breakout	73.6	84	79.9	76.8	70.5	62.9	54.8	50.6	57
50%	Inlet	66.1	80.1	71.7	64.6	56.2	52.2	46.2	47.5	45.3
50%	Outlet	66.6	77.9	73	69.9	66.5	61	55.4	54.9	50.7
50%	Breakout	63.4	73.8	69.7	66.6	60.3	52.7	44.6	40.4	46.8
25%	Inlet	51	65	56.6	49.5	41.1	37.1	31.1	32.4	30.2
25%	Outlet	51.6	62.8	57.9	54.8	51.4	45.9	40.3	39.8	35.6
25%	Breakout	48.3	58.8	54.7	51.6	45.2	37.6	29.6	25.3	31.8