



SHALE

Specialty HVAC Systems

Centrifugal In Line Fans AC & EC

Catalogue 2024 – 2025



Official Certification



The Australian Made centrifugal in-line fans by SHALE HVAC are high-performance ventilation units specifically designed for a wide range of applications.

Our fans are manufactured using VO ABS engineered polymers, offering a robust, lightweight, and electrical compliance ideal for both residential and commercial settings.

The use of EBM Papst motors, known for their efficiency and durability, ensures optimal performance and reliability, making them an industry leading choice.

Key Features:

Engineered Polymers – Our fans are made from high-quality VO ABS polymers, providing excellent strength and electrical compliance, making them highly durable and ideal for various environmental conditions.

Centrifugal In-Line Design – Our fan design allows for high airflow rates while maintaining relatively low noise levels. The in-line configuration ensures space efficiency and easy integration into duct systems.

EBM Papst Motors – Our fans are equipped with industry-leading EBM Papst motors, renowned for their energy efficiency, low maintenance, and long-lasting performance. These motors deliver consistent and reliable airflow, helping to reduce energy costs while ensuring optimal operation.

Australian Made – Proudly manufactured in Australia, our fans comply with local manufacturing standards and offer a high level of quality control, ensuring top-tier performance for the Australian market.

Energy Efficient – The combination of high-performance polymers and energy-efficient motors makes these fans environmentally friendly and cost-effective over the long term.

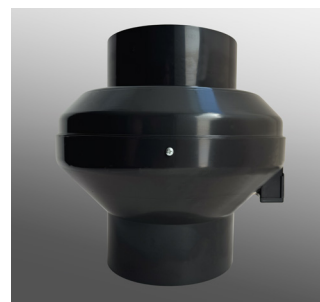
Centrifugal in-line fans by SHALE HVAC are built to meet the demands of modern ventilation systems, providing quiet, efficient, and reliable airflow while standing up to the rigors of continuous use. SHALE HVAC fans are an excellent choice for ensuring consistent air movement in various environments.



shalehvac.com.au



150mm Low Profile AC



200mm Round AC



250mm Round AC



250mm Round High Flow AC



150mm Low Profile EC

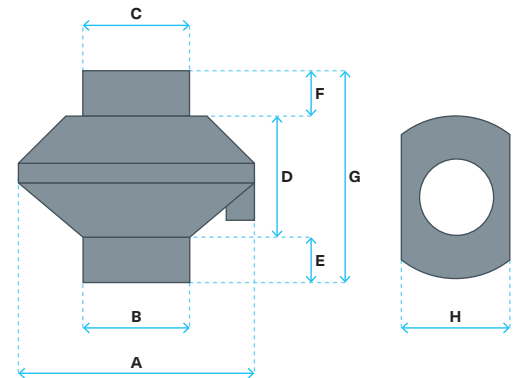
Centrifugal In Line Fans AC

150mm Low Profile Fan CODE – 11111150



Fan Size Specifications

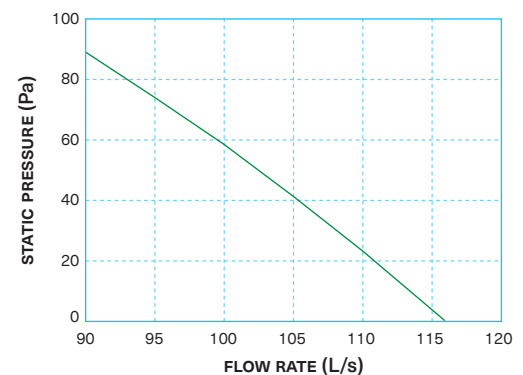
A	B	C	D	E	F	G	H
340	150	150	160	75	75	310	217



Acoustic Performance Data

TEST CONDITIONS: Sound power level, db re 1e-12 w / Octave band centre frequency (hz)

Qs (L/s)	Ps (Pa)	NR	125	250	500	1000	2000	4000	8000
RADIATED									
95	74	35	48.1	50.3	45.8	44.0	41.6	35.0	25.9
102	52	35	48.2	51.1	45.9	44.2	41.9	35.5	26.4
108	30	36	48.4	52.2	46.0	44.4	42.6	36.3	27.5
112	16	36	49.6	52.3	46.1	44.9	43.4	37.0	28.0
115	4	37	49.0	52.4	46.3	45.6	43.6	37.5	28.6
DISCHARGE									
95	74	49	50.0	57.7	60.5	53.8	55.9	51.3	40.9
102	52	49	50.5	56.5	58.8	53.9	56.1	51.5	41.4
108	30	50	50.6	56.7	57.8	54.6	56.9	52.5	42.3
112	16	50	51.4	57.1	58.0	55.2	57.2	53.1	43.0
115	4	50	51.8	57.3	58.1	55.6	57.6	53.6	43.5



L/s	95	102	108	112	115
Pa	74	52	30	16	4

Motor & Product Technical Features

Inlet Duct Size	150mm
Outlet Duct Size	150mm
Product Protection Rating	IPX2
Motor Impeller Material	PA Plastic
Device Body Material	ABS Plastic
Max Permissible Transport & Storage Temp	+ 80° C
Min Permissible Transport & Storage Temp	- 40° C
Motor Protection	Thermal Cut-Out, Manual Reset
Standard that device conforms to	AS / NZS 60335.1 AS / NZS 60335.2.80
Electrical Certification Number	OZC-240302-EA

Motor Nominal Data

Phase	1~
Nominal Voltage / VAC	230
Frequency	50
Power Input / W	52
Current Draw / A	0.23
Min. Ambient Temp / °C	-25
Max. Ambient Temp / °C	+65

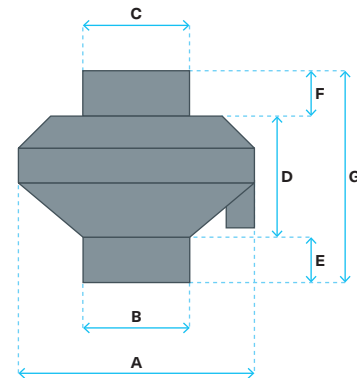
Centrifugal In Line Fans AC

200mm Round Fan
CODE – 11111200



Fan Size Specifications

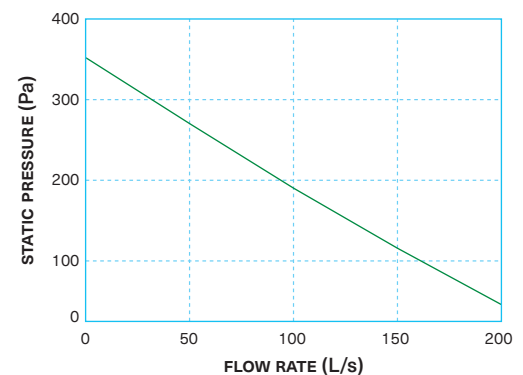
A	B	C	D	E	F	G
342	200	200	163	75	75	312



Acoustic Performance Data

TEST CONDITIONS: Sound power level, db re 1e-12 w / Octave band centre frequency (hz)

Qs (L/s)	Ps (Pa)	NR	125	250	500	1000	2000	4000	8000
RADIATED									
142	18	40	42.9	43.1	40.9	41.2	30.3	18.3	25.9
151	100	40	43.4	43.4	41.8	41.5	31.6	19.0	26.4
164	77	42	44.7	44.7	43.8	43.1	34.1	20.8	27.5
181	50	43	45.4	45.4	44.1	43.7	34.9	22.0	28.0
199	20	43	46.3	46.3	44.9	45.7	35.4	23.8	28.6
DISCHARGE									
142	118	53	43.8	50.6	55.5	52.9	60.5	51.9	39.2
151	100	54	44.6	52.1	56.3	54.2	61.8	54.6	40.6
164	77	56	45.3	54.5	56.8	55.3	62.9	56.6	41.4
181	50	56	46.5	55.0	58.4	56.2	63.7	57.2	42.5
199	20	57	48.0	56.5	60.1	56.6	61.0	58.0	44.0



L/s	0	102	120	131	142	151	164	181	199
Pa	350	169	141	124	118	100	77	50	20

Motor & Product Technical Features

Inlet Duct Size	200mm
Outlet Duct Size	200mm
Product Protection Rating	IPX2
Motor Impeller Material	PA Plastic
Device Body Material	ABS Plastic
Max Permissible Transport & Storage Temp	+ 80 ⁰ C
Min Permissible Transport & Storage Temp	- 40 ⁰ C
Motor Protection	Thermal Cut-Out, Manual Reset
Standard that device conforms to	AS / NZS 60335.1 AS / NZS 60335.2.80
Electrical Certification Number	OZC-240302-EA

Motor Nominal Data

Phase	1~
Nominal Voltage / VAC	230
Frequency	50
Power Input / W	88
Current Draw / A	0.39
Min. Ambient Temp / °C	-25
Max. Ambient Temp / °C	+50

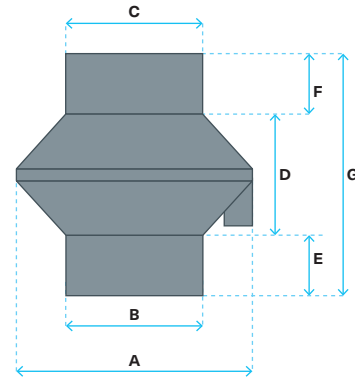
Centrifugal In Line Fans AC

250mm Round Fan CODE – 11111250



Fan Size Specifications

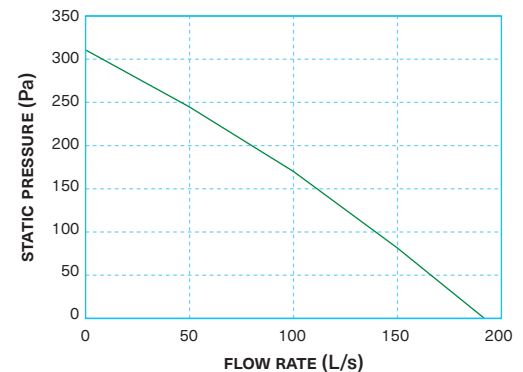
A	B	C	D	E	F	G
315	250	250	160	75	75	310



Acoustic Performance Data

TEST CONDITIONS: Sound power level, db re 1e-12 w / Octave band centre frequency (hz)

Qs (L/s)	Ps (Pa)	NR	125	250	500	1000	2000	4000	8000
RADIATED									
139	96	34	54.5	49.6	45.0	43.0	41.5	32.4	19.2
152	72	35	54.8	51.0	46.4	44.4	42.0	33.7	20.8
158	58	36	55.1	51.3	46.9	44.7	42.6	34.3	22.1
172	29	36	56.2	51.6	47.6	45.1	43.4	35.8	25.5
183	4	37	56.8	52.2	47.9	45.7	44.3	36.9	27.2
DISCHARGE									
139	96	49	55.1	60.7	59.8	58.5	56.7	54.6	44.0
152	72	50	55.6	60.9	60.4	59.1	57.7	55.5	45.6
158	58	51	56.2	61.0	60.9	59.5	58.5	56.3	47.1
172	29	52	56.5	61.2	61.6	60.8	59.3	57.3	50.0
183	4	53	56.8	61.4	62.4	61.4	59.8	58.7	51.9



L/s	10	45	72	95	140	163	178	188
Pa	298	252	213	177	99	56	27	6

Motor & Product Technical Features

Inlet Duct Size	250mm
Outlet Duct Size	250mm
Product Protection Rating	IPX2
Motor Impeller Material	PA Plastic
Device Body Material	ABS Plastic
Max Permissible Transport & Storage Temp	+ 80° C
Min Permissible Transport & Storage Temp	- 40° C
Motor Protection	Thermal Cut-Out, Manual Reset
Standard that device conforms to	AS / NZS 60335.1 AS / NZS 60335.2.80
Electrical Certification Number	OZC-240302-EA

Motor Nominal Data

Phase	1~
Nominal Voltage / VAC	230
Frequency	50
Power Input / W	88
Current Draw / A	0.39
Min. Ambient Temp / °C	-25
Max. Ambient Temp / °C	+50

Centrifugal In Line Fans AC

250mm Round Fan – High Air Flow CODE – 111112501



Acoustic Performance Data

TEST CONDITIONS: Sound power level, db re 1e-12 w / Octave band centre frequency (hz)

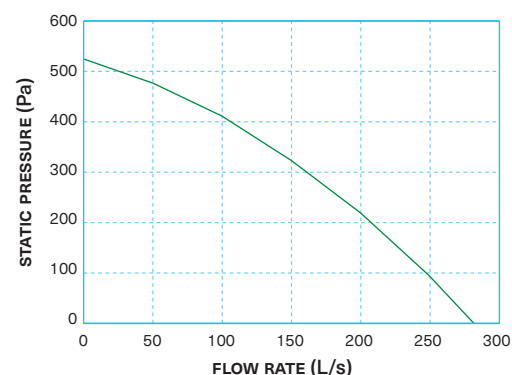
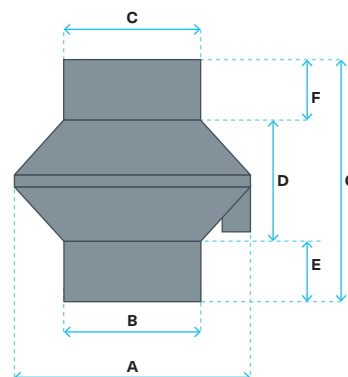
Qs (L/s)	Ps (Pa)	NR	125	250	500	1000	2000	4000	8000
RADIATED									
186	250	41	59.8	55.7	51.2	51.2	46.8	38.0	26.0
205	206	42	60.3	56.0	51.7	52.3	47.9	39.6	26.8
232	140	43	61.1	56.8	52.3	53.1	48.5	40.8	28.7
248	83	44	61.5	57.6	52.8	54.0	49.4	41.7	29.6
270	20	45	62.6	59.1	53.9	54.9	50.3	42.8	31.4
DISCHARGE									
186	250	56	63.0	66.2	63.9	65.4	63.3	59.0	49.4
205	206	57	63.2	66.6	64.6	65.6	63.4	60.7	50.5
232	140	58	63.3	67.4	65.5	66.3	65.1	62.0	52.6
248	83	58	64.1	68.0	65.6	66.7	65.8	63.0	53.7
270	20	59	64.7	68.6	66.4	67.3	66.7	64.0	55.2

Motor & Product Technical Features

Inlet Duct Size	250mm
Outlet Duct Size	250mm
Product Protection Rating	IPX2
Motor Impeller Material	PA Plastic
Device Body Material	ABS Plastic
Max Permissible Transport & Storage Temp	+ 80 ⁰ C
Min Permissible Transport & Storage Temp	- 40 ⁰ C
Motor Protection	Temperature limiter, Manual Reset
Standard that device conforms to	AS / NZS 60335.1 AS / NZS 60335.2.80
Electrical Certification Number	OZC-240302-EA

Fan Size Specifications

A	B	C	D	E	F	G
315	250	250	160	75	75	310



L/s	22	63	111	152	187	231	253	275
Pa	509	457	388	320	252	142	85	22

Motor Nominal Data

Phase	1~
Nominal Voltage / VAC	230
Frequency	50
Power Input / W	155
Current Draw / A	0.68
Min. Ambient Temp / °C	-25
Max. Ambient Temp / °C	+70

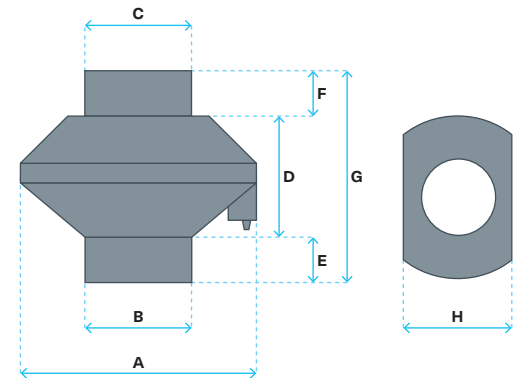
Centrifugal In Line Fans EC

150mm Low Profile Fan CODE – 11133150



Fan Size Specifications

A	B	C	D	E	F	G	H
340	150	150	160	75	75	310	217



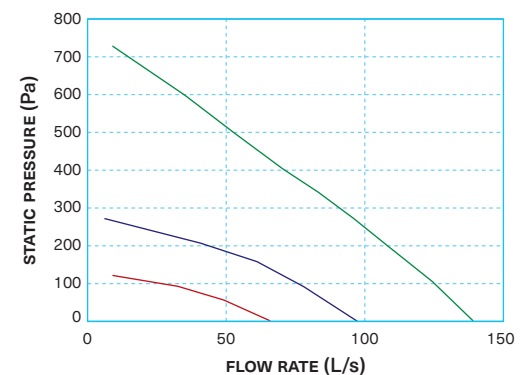
Acoustic Performance Data

TEST CONDITIONS: Sound power level, db re 1e-12 w / Octave band centre frequency (hz)

Qs (L/s)	Ps (Pa)	NR	125	250	500	1000	2000	4000	8000
RADIATED									
116	161	44	55.1	58.2	56.9	52.8	52.2	45.9	45.0
121	130	44	55.4	59.0	58.0	53.4	52.8	46.6	45.3
126	99	46	55.6	58.9	59.1	54.0	53.4	47.2	45.5
133	50	46	56.2	60.4	59.9	55.1	54.1	48.1	46.2
139	2	47	56.8	61.0	60.7	56.1	54.8	49.0	46.8
DISCHARGE									
116	161	56	63.6	69.7	68.7	62.8	63.9	60.7	57.2
121	130	56	64.9	70.1	68.9	63.5	64.3	61.1	57.4
126	99	57	66.1	70.4	69.1	64.1	64.6	61.4	57.6
133	50	57	66.7	71.1	69.4	65.3	65.4	62.5	58.1
139	2	58	67.2	71.8	69.7	66.5	66.2	63.5	58.6

Motor & Product Technical Features

Inlet Duct Size	150mm
Outlet Duct Size	150mm
Product Protection Rating	IPX2
Motor Impeller Material	PA Plastic
Device Body Material	ABS Plastic
Max Permissible Transport & Storage Temp	+ 80° C
Min Permissible Transport & Storage Temp	- 40° C
Motor Protection	Locked-rotor protection
Standard That Device Conforms To	AS / NZS 60335.1 AS / NZS 60335.2.80
Electrical Certification Number	OZC-240302-EA
Other Technical Features	Control input 0-10 VDC/PWM, Soft Start, Output 10 VDC, Max 1.1mA, Tach Output



30% FAN SPEED

L/s	10	25	31	39	48	58	62	67
Pa	120	102	93	80	59	31	19	3

60% FAN SPEED

L/s	7	23	33	45	61	71	86	96
Pa	272	239	222	197	157	118	58	8

100% FAN SPEED

L/s	10	24	62	73	89	108	125	136
Pa	728	660	447	392	314	206	99	19

Motor Nominal Data

Phase	1~
Nominal Voltage / VAC	230
Frequency	50 / 60
Power Input / W	83
Current Draw / A	0.75
Min. Ambient Temp / °C	-25
Max. Ambient Temp / °C	+60



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