

Powerflow

In-Line Duct Fan Models

Features & Benefits

- Tough plastic in-line range in eight models
- 50-80mm long ribbed spigots
- Flame retardant casing
- All models speed controllable
- Fitted with Standard Thermal Overload Protection (S.T.O.P.)
- For the best performance from your fan, use a Vent-Axia controller
- IP44 Rated

Ducted Ventilation

Powerflow models provide a compact yet versatile range designed with the installer in mind, combining the acoustic benefits of a tough plastic casing with the pressure characteristics of a centrifugal fan.

A range of eight models from 100 to 315mm dia. duct sizes. The 315mm dia. model has been specifically developed for use with rigid ductwork. Air volumes from 59l/s to 420l/s in free air and capable of pressure development up to 550 Pa.

Powerflow has 50-80mm long inlet and discharge spigots allowing easy installation and fixing. The adjustable mounting foot allows the terminal box to be rotated to any angle and allows plenty of space and adjustment for screw fixing. The robust fire retardant polymeric casing combined with internal guide vanes ensures optimum airflow management through the unit.

Electrical

Motors are 220-240V single phase 50Hz. Capacitor start and run. The terminal box is integral with the case moulding. All motors are fitted with Standard Thermal Overload Protection (S.T.O.P.).

Motor/Impeller

All models are fitted with an external rotor motor and backward curved impeller assembly for long life and reliability.

All sizes are IP44 according to BS EN 60529. Ball bearings are greased for life and designed to run at any angle. Insulation is Class 'B' (from -30°C to +40°C). Manufacture is controlled to BS EN ISO 9001.

Models

2 Pole In-Line Duct Fan - Single Phase

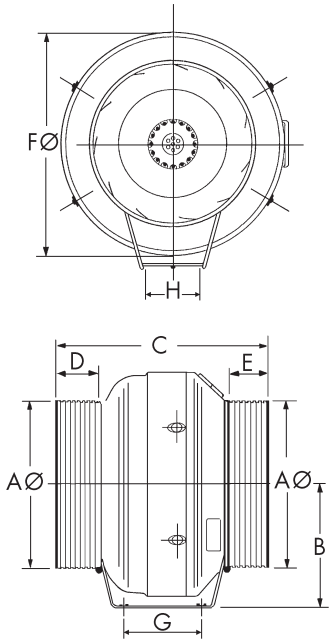
- Stock Ref**
ACP10012
ACP12512
ACP15012
ACP16012
ACP20012
ACP25012
ACP31512
ACP31512HP

2.5A Electronic Controller

On/Off indication light. Infinitely variable speed control. Adjustable minimum speed setting and optional sensor mode. The controller is radio-suppressed to BS800 and rated at 2.5 Amps.

- Stock Ref**
W10303102M

Dimensions (mm)

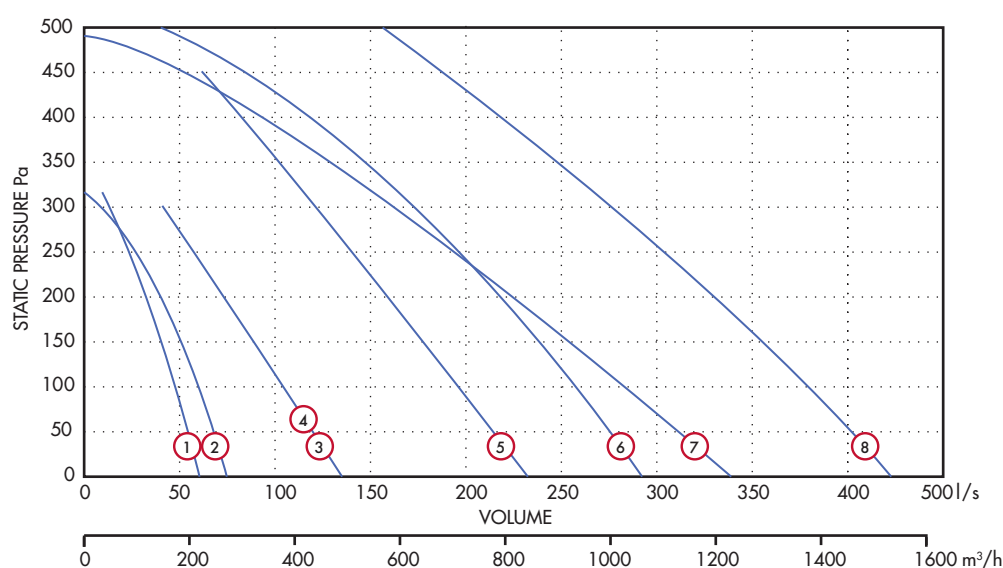


Dia	AØ	B	C	D	E	FØ	G	H	Weight
100	100	146	287	52	52	254	110	270*	2.2
125	125	146	287	60	60	254	110	270*	2.2
150	149	175	287	52	52	301	110	270*	3.1
160	160	175	287	52	52	301	110	270*	3.1
200	200	193	290	47	47	344	92	130	4.3
250	250	218	312	65	65	367	92	130	4.6
315	315	250	366	76	76	405	92	130	5.9
315HP	315	250	366	76	76	405	92	130	6.1

*Sizes 100, 125, 150 & 160 have a flat mounting foot



Performance Curve



Performance Data

Dia.	Curve	Nominal	l/s @ Pa										S.C.	F.L.C.	dB(A)	
	Ref.	r.p.m	0	25	50	100	150	200	250	300	350	400	Watts	Amps	Amps	at 3m
100	1	2740	59	56	52	46	39	31	21				83	0.85	0.34	35
125	2	2410	78	73	69	60	50	39	27				86	0.85	0.34	35
150	3	2520	137	130	122	106	89	73	57	39			100	1.10	0.43	45
160	4	2520	137	130	122	106	89	73	57	39			100	1.10	0.43	45
200	5	2620	234	224	214	194	177	159	138	119	100	82	150	1.52	0.68	47
250	6	2720	290	283	270	250	234	216	197	177	156	124	185	1.60	0.77	48
315	7	2720	339	329	313	274	244	218	191	161	131	98	182	1.57	0.75	51
315HP	8	2667	420	410	400	380	350	330	300	270	247	222	300	4.00	1.30	52

Acoustic Sound Power Level

Stock Ref.		63	125	250	500	1K	2K	4K	8K	dB(A) @3m
ACP10012	INLET	81	84	75	68	61	52	46	40	51
ACP10012	OUTLET	82	84	77	68	61	52	49	43	52
ACP10012	BREAKOUT	52	48	57	53	53	48	40	38	35
ACP12512	INLET	80	79	76	70	61	57	51	45	51
ACP12512	OUTLET	82	80	76	71	61	54	51	43	52
ACP12512	BREAKOUT	52	48	57	53	53	48	40	38	35
ACP15012	INLET	79	84	84	76	69	65	61	52	59
ACP15012	OUTLET	78	84	83	74	69	65	60	50	58
ACP15012	BREAKOUT	59	62	66	62	62	58	51	43	45
ACP16012	INLET	81	81	79	76	66	61	58	49	55
ACP16012	OUTLET	80	82	81	73	67	62	57	49	54
ACP16012	BREAKOUT	59	62	66	62	62	58	51	43	45

Stock Ref.		63	125	250	500	1K	2K	4K	8K	dB(A) @3m
ACP20012	INLET	80	79	74	76	67	65	66	60	57
ACP20012	OUTLET	79	79	74	71	69	69	65	59	55
ACP20012	BREAKOUT	54	70	67	66	62	59	53	43	47
ACP25012	INLET	84	80	74	74	69	69	67	63	57
ACP25012	OUTLET	75	79	73	72	72	73	68	64	59
ACP25012	BREAKOUT	60	71	70	66	65	62	55	44	48
ACP31512	INLET	84	80	74	74	69	69	67	63	56
ACP31512	OUTLET	75	79	73	72	72	73	68	64	59
ACP31512	BREAKOUT	72	71	73	71	66	63	55	45	51
ACP31512/HP	INLET	63	72	75	77	79	75	74	67	63
ACP31512/HP	OUTLET	65	73	76	79	76	80	74	68	64
ACP31512/HP	BREAKOUT	61	68	69	71	68	67	58	51	52