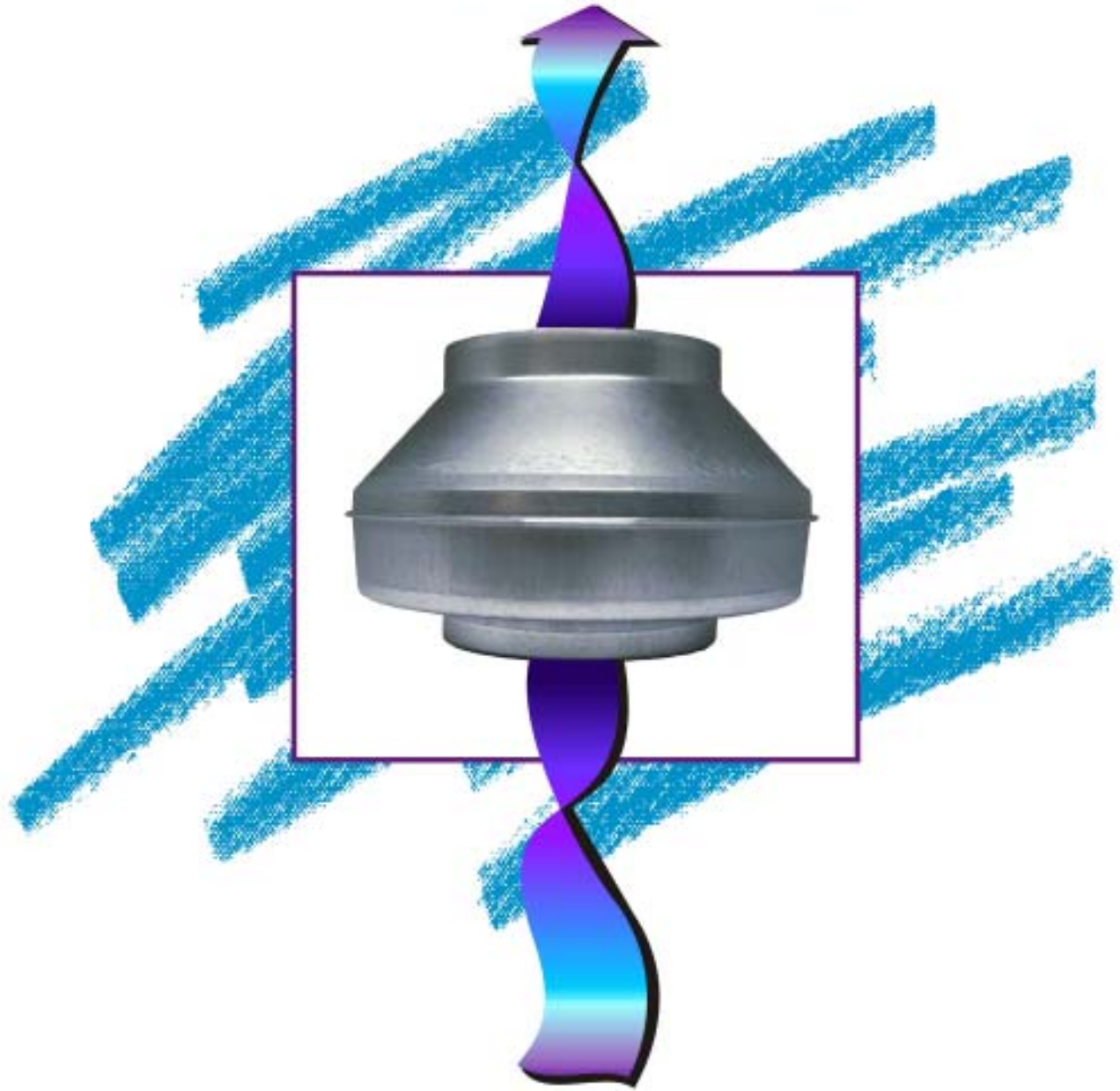
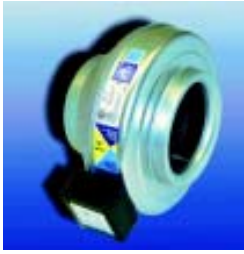


ALDES 
DUCT FAN A-SERIES



REMOTE MOUNTED
MULTI-PURPOSE
DIRECT DRIVE
FAN

IN-LINE CENTRIFUGAL FAN
RESIDENTIAL OR COMMERCIAL APPLICATIONS / SUPPLY OR EXHAUST



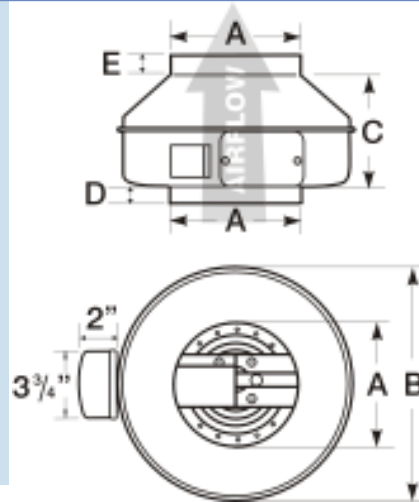
ALDES' "A" Series duct fans have a multitude of applications in which one or two exhaust or supply points are required. They may also be used as a booster fan on long duct runs or for makeup air systems. The durable "A" fan's unique design, with a centrifugal blower in a straight-through housing, combines the compactness of an axial fan with the superior airflow and pressure characteristics of centrifugal blowers. "A" fans may be mounted in any orientation. The fan housing is formed in heavy gauge galvanized steel and are sized to fit spiral duct directly without transition pieces. Internal air turning vanes are placed in the outlet side of the fan to straighten airflow and maximize performance.

The ALDES "A" Series Duct Fan... the performance of a centrifugal fan with the advantages of a straight-through design configuration

The "A" fan's external rotor motor's advanced technology permits the use of a solid state speed control varying the speed from 100% down to a full stop without danger of overheating. This ability to match power to the airflow requirements results in both considerable energy savings and noise reduction. Remote mounting of the fan and use of flexible insulated duct, if applicable, also insures that fan noise, as it should be, is kept out of occupied spaces. Among the common applications of the "A" series fan is range exhaust. The "A" fan is also suitable for handling particulate dust, and as a booster fan in HVAC duct systems.

DIMENSIONAL DATA

Part#	Model#	A	B	C	D	E
99 029	A-4	4"	8 ³ / ₄ "	6 ¹ / ₂ "	1"	1"
99 040	A-4HP	4"	9 ³ / ₄ "	6 ¹⁵ / ₁₆ "	1"	1"
99 010	A-5	5"	8 ³ / ₄ "	5 ¹ / ₂ "	1"	7/8"
99 042	A-5HP	5"	9 ³ / ₄ "	5 ¹⁵ / ₁₆ "	1"	1"
99 011	A-6	6"	11 ³ / ₈ "	6"	1"	1"
99 041	A-6HP	6"	13 ¹ / ₈ "	6 ⁵ / ₈ "	1"	1 ¹ / ₈ "
99 012	A-8	8"	13 ³ / ₈ "	6"	1 ¹ / ₈ "	1 ¹ / ₈ "
99 013	A-8HP	8"	13 ³ / ₈ "	6"	1 ¹ / ₈ "	7/8"
99 014	A-10	10"	13 ³ / ₈ "	4 ¹¹ / ₁₆ "	1 ¹ / ₈ "	1"
99 039	A-10HP	10"	13 ³ / ₈ "	5 ⁷ / ₈ "	1 ¹ / ₈ "	1"
99 015	A-12	12"	16"	8 ¹ / ₄ "	1 ¹ / ₁₆ "	1 ³ / ₁₆ "
99 038	A-12HP	12"	16"	8 ¹ / ₄ "	1 ¹ / ₁₆ "	1 ³ / ₁₆ "



AIR PERFORMANCE DATA

Part No.	MODEL	Duct Diam. (in.)	MAX. RPM	MAX. AMPS	RATED WATTS	CFM vs. Static Pressure in inches W.G.											MAX PS. (IN.)
						0"	0.1"	0.2"	0.4"	0.6"	0.8"	1.0"	1.25"	1.5"	2.0"	2.5"	
99 029	A-4	4	3000	0.19	20	135	123	110	83	55	25	—	—	—	—	—	0.94
99 040	A-4HP	4	2750	0.66	71	170	160	150	134	119	103	86	63	40	—	—	1.98
99 010	A-5	5	3000	0.19	20	156	143	130	99	66	33	—	—	—	—	—	0.99
99 042	A-5HP	5	2700	0.68	73	220	205	190	160	135	112	91	66	41	—	—	1.89
99 011	A-6	6	2700	0.68	72	303	287	270	232	196	164	134	97	58	—	—	1.88
99 041	A-6HP	6	2900	1.48	153	483	466	450	409	369	329	289	243	201	103	—	2.41
99 012	A-8	8	2550	1.14	119	461	435	410	351	295	243	191	143	97	—	—	2.11
99 013	A-8HP	8	2950	1.45	142	502	486	470	428	388	351	313	266	218	100	—	2.40
99 014	A-10	10	3000	1.43	138	513	497	480	444	407	366	324	269	216	89	—	2.36
99 039	A-10HP	10	3100	1.96	196	589	574	560	531	503	472	441	400	355	257	137	3.02
99 015	A-12	12	2600	1.87	181	741	711	680	601	515	434	363	290	236	146	72	2.99
99 038	A-12HP	12	2900	3.01	301	940	910	880	819	746	670	596	505	425	259	80	2.74

Ratings shown are based on tests made in accordance with AMCA Standard 210 and AMCA Standard 300 and comply with the requirements of the AMCA Certified Ratings Program. All fans use energy efficient permanent split capacitor motor. Voltage 120.

Features

- Energy efficient, 115 v external rotor motor with permanently lubricated bearings
- Backward curved centrifugal impeller.....for low noise levels
- Statically and Dynamically balanced blower for vibration free performance
- 100% controllable by solid-state speed controls
- Automatic reset thermal overload protection
- Horizontal or vertical Installation
- Airflow and sound ratings tested in accordance with AMCA standards
- UL Listed under Standard 507 and 705 (for conditioned airstreams up to 140 degrees F.)

Typical Specifications for Model A In-line Duct Fans

Supply, exhaust or return air in-line fans shall be of the centrifugal, direct driven type.

Construction & Specifications

Fan housing shall be constructed of heavy gauge galvanized sheet steel. Internal air turning vanes shall be provided for maximum air performance. Fan shall be supplied with externally mounted electrical terminal box with pre-wired terminal strip connections.

Motorized impeller shall be an external rotor type, class B insulation, totally enclosed with permanent split capacitor. Motor shall be a permanently sealed self lubricating ball bearing type. Motor shall be equipped with automatic reset thermal overload protection. Motor shall be acceptable for continuous duty. Sufficient service factor shall be provided to ensure long maintenance free operation over maximum load conditions.

Fan wheel shall be of the backward inclined airfoil type with a well designed inlet venturi for maximum performance. Motorized impeller shall be both statically and dynamically balanced as one integral unit to provide for vibration free performance.

Performance Fan airflow and sound performance shall be tested in accordance with AMCA standards.

Code Approval Fan shall be tested and approved by UL and CSA (or equal) for safety.

Warranty Fan shall be fully warranted for a period of no less than three years from the date of installation.



Typical Applications

- Booster fan in HVAC duct systems
- Fume hood exhaust
- Conference room ventilation
- Kitchen range hood exhaust



SOUND DATA

Part No.	MODEL	(in.)	Sones at Given Static Pressure								
			0"	.125"	.25"	.375"	.5"	.75"	1.0"	1.25"	1.5"
99 029	A-4	4	4.5	4.2	4.0	3.8	3.8	—	—	—	—
99 040	A-4HP	4	6.5	6.7	6.9	7.3	7.7	8.1	8.3	8.4	—
99 010	A-5	5	4.8	4.3	4.1	4.0	3.9	—	—	—	—
99 042	A-5HP	5	6.8	6.9	7.0	7.3	7.7	8.5	8.6	8.7	—
99 011	A-6	6	6.7	6.5	6.5	6.4	6.3	6.2	6.6	7.1	—
99 041	A-6HP	6	10.8	10.8	10.8	10.8	10.7	10.2	10.0	9.7	9.8
99 012	A-8	8	9.1	8.4	7.7	7.3	7.1	7.3	7.6	8.0	8.6
99 013	A-8HP	8	11.4	10.9	10.5	10.0	9.7	9.3	9.8	10.2	10.6
99 014	A-10	10	12.3	11.8	11.3	10.9	10.6	9.8	9.4	9.2	9.3
99 039	A-10HP	10	12.7	12.4	12.1	11.9	11.6	11.1	10.7	10.4	10.3
99 015	A-12	12	11.5	10.4	9.5	8.8	7.3	6.1	7.2	8.0	8.8
99 038	A-12HP	12	—	—	—	—	21.0	21.0	20.0	19.2	18.3

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) from the test inlet duct in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installations Type D: ducted inlet, ducted outlet. Ratings do not include the effect of duct and correction.

DUCT FAN ACCESSORIES from ALDES



Supply/Exhaust Grille-
White plastic. Removable for easy cleaning. For exhaust or supply air. 4, 5, 6, and 8" sizes



Backdraft Damper- Spring loaded. Vertical or horizontal mount. Galvanized sheet metal construction. 4, 5, 6, 7, 8, 10, and 12" sizes



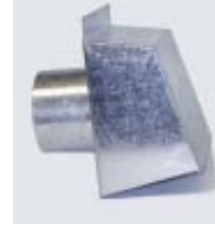
Lint Trap- For use as an in-line secondary dryer lint trap.



Variable Speed Controls-
Knob or slide control- 1 phase, 5 amps speed control. Allows exact airflow requirements to be satisfied



Vibration Isolating Fan Clamp-
Reduces vibration in rigid ductwork installations. Two clamps required per fan. 4" to 12" sizes



Wall Hood
Special low-pressure wall cap. Copper, Galvanized or Stainless Steel. 4, 5, 6, 8, 10, and 12" sizes



Recessed Dryer Vent Box-
Space saver. Top or rear duct connection.
• For 2 x 4 wall: 12.3" x 21" x 3.5"
• For 2 x 6 wall: 12.3" x 21" x 5.5"



Roof Cap-
Special low profile pressure drop roof cap with backdraft damper. Copper, Galvanized or Stainless Steel. 4, 5, 6, 8, 10, and 12" sizes



Ring Seal Collar-
Facilitates connection of flexible duct to "A" Fans. 4" to 12" sizes



Hood Liner-
Quality stainless steel hood liners. 30", 36", 42" and 48" sizes

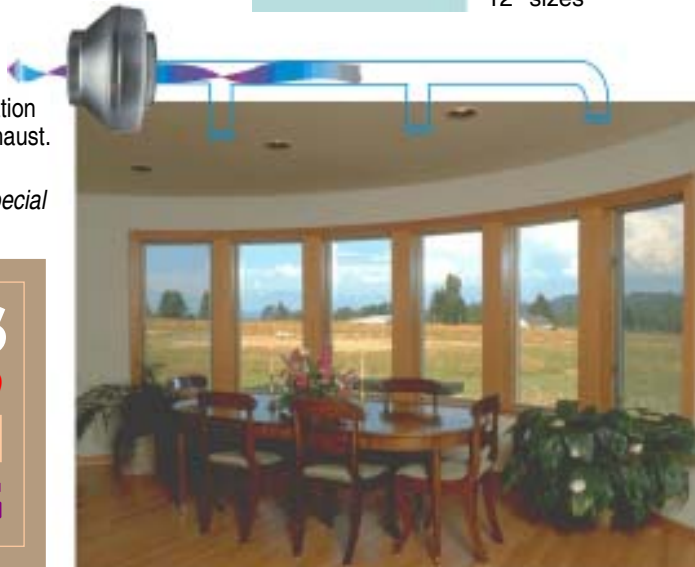


Duct Silencer -
Attenuates fan noise. Suggested for use with rigid duct installations. Available in 4, 5, 6, 8, 10, and 12" sizes

ORDERING INFORMATION

	Weight
99 029 A-4 FAN	6 lbs
99 040 A-4 HP FAN	8 lbs
99 010 A-5 FAN	6 lbs
99 042 A-5 HP FAN	8 lbs
99 011 A-6 FAN	8 lbs
99 041 A-6 HP FAN	10 lbs
99 012 A-8 FAN	11 lbs
99 013 A-8 HP FAN	11 lbs
99 014 A-10 FAN	14 lbs
99 039 A-10 HP FAN	14 lbs
99 015 A-12 FAN	21 lbs
99 038 A-12HP FAN	21 lbs

Shipping Weights may be higher because of dimensional weight rules.



Shown is a typical application for Conference Room Exhaust.

CALL ALDES
for assistance with any special application needs. . .

ALDES
800-255-7749
DESIGN
SERVICES

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