



# FANS

## "A" Series Duct Fan

### In-Line Centrifugal Fan

PRODUCT  
SPECIFICATIONS  
& TECHNICAL  
DATA



UL LISTED  
DUCT FANS  
(E77545)

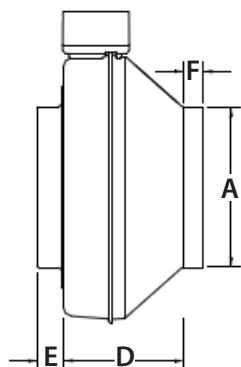


#### DESCRIPTION

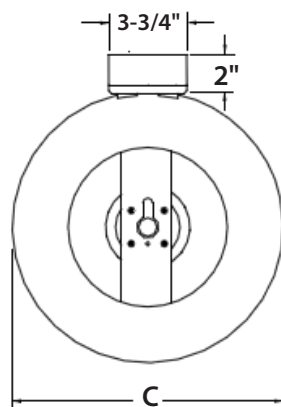
"A" Series centrifugal-type exhaust/supply fans are specifically designed for moderately sized ventilation applications. The fan can be mounted at any angle at any point along the duct work. The straight-through airflow design allows easy installation. By using optional mounting clamps, the fan can easily be removed from duct work for service. Fans are constructed in accordance with standard dimensions for spiral duct, eliminating the need for transition pieces. Fan motors are capable of operating in air stream temperatures of 140°F. Motor bearings are the permanently sealed, self-lubricating ball type. All fans are 100-percent speed controllable through a decrease in the voltage by using a solid-state or transformer type control.

## Dimensions

SIDE VIEW



TOP VIEW



DIMENSIONS (INCHES)							
PART NUMBER	MODEL	A	C	D	E	F	WEIGHT (lbs)
99 029	A-4	4	8-1/2	6-1/2	1	1	7
99 040	A-4HP	4	9-3/4	6-15/16	1	1	8
99 010	A-5	5	8-5/8	6-1/2	1	1	7
99 042	A-5HP	5	9-3/4	6	1-1/8	1-1/8	8
99 011	A-6	6	11-3/8	6-1/4	1	7/8	10
99 041	A-6HP	6	13-1/8	7	1	1	12
99 012	A-8	8	13-1/4	6	1	1	12
99 013	A-8HP	8	13-1/4	6	1-1/8	1	13
99 014	A-10	10	13-1/4	4-3/4	1-1/8	1	12
99 039	A-10HP	10	13-1/4	4-13/16	1-1/4	1	14
99 015	A-12	12	16	6-11/16	1-1/4	1	18
99 038	A-12HP	12	16	6-11/16	1-1/2	1	21

## Typical Specification

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

"A" SERIES fans shall be manufactured under the authority of American ALDES Ventilation Corporation, Bradenton, FL.

#### CONSTRUCTION

Fan housing shall be constructed of heavy-gauge galvanized sheet metal. Fan shall be supplied with externally mounted electrical terminal box with pre-wired terminal strip connections. Capacitor shall be located within electric terminal box.

Motorized impeller shall be an external-rotor type, class B insulation, 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.

Fan wheel shall be of the backward-inclined centrifugal 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. Impellers shall be molded of high-impact polypropylene.

#### PERFORMANCE

Fan airflow performance shall be tested in accordance with AMCA Standard 211.

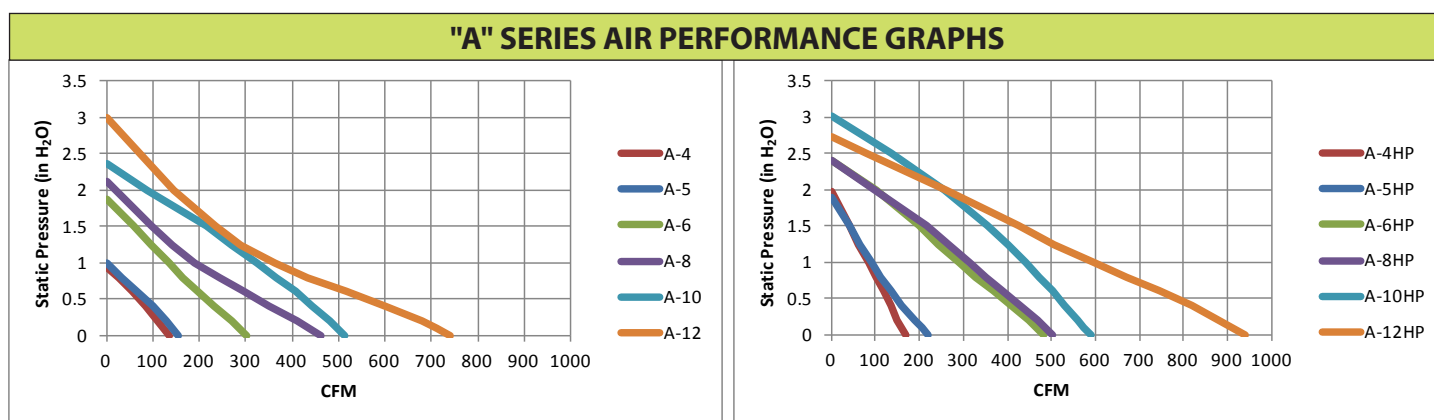
#### CODE APPROVAL

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

# Performance

"A" SERIES PERFORMANCE DATA														
PART NUMBER	MODEL	DUCT DIAM. (in.)	MAX RPM	MAX RATED AMPS	MAX 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"	1.5"	
99 029	A-4	4	3000	0.19	20	135	123	110	83	55	25	--	--	0.94
99 040	A-4HP	4	2700	0.66	71	170	160	150	134	119	103	86	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	41	1.89
99 011	A-6	6	2700	0.68	72	303	287	270	232	196	164	134	58	1.88
99 041	A-6HP	6	2900	1.48	153	483	466	450	409	369	329	289	201	2.41
99 012	A-8	8	2550	1.14	119	461	435	410	351	295	243	191	97	2.11
99 013	A-8HP	8	2950	1.45	142	502	486	470	428	388	351	313	218	2.40
99 014	A-10	10	3000	1.43	138	513	497	480	444	407	366	324	216	2.36
99 039	A-10HP	10	3100	1.96	196	589	574	560	531	503	472	441	355	3.02
99 015	A-12	12	2600	1.87	181	741	711	680	601	515	434	363	236	2.99
99 038	A-12HP	12	2900	3.01	301	940	910	880	819	746	670	596	425	2.74

Performance certified is for Installation Type D (ducted inlet, ducted outlet). Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of accessories. Ratings shown are based on tests made in accordance with AMCA Standard 211. All fans use energy-efficient, permanent-split-capacitor motors. Voltage: 120. Phase: 1.



**WARNING! DO NOT use in HAZARDOUS ENVIRONMENTS** where fan's electrical system could provide ignition to combustible or flammable materials, unless it is specifically built for hazardous environments. AMERICAN ALDES VENTILATION CORPORATION reserves the right to substitute material or change product specification.

## WARRANTY

*The entire unit is guaranteed for three (3) years, from date of shipment, against all manufacturing defects, provided the material has been installed and operated per manufacturer's instructions and under normal conditions. Warranty is limited to the repair or replacement of the material upon its return freight paid to our factory. This warranty is not transferable and is limited to the original end user.*

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