

Axial Ventilators

Direct-Drive Axial Exhaust Downblast Roof Ventilators

Direct-drive axial roof ventilators are designed for use in applications requiring the steady exhaust of air under low to moderate static pressures.

Agency Listing

- All ventilators are UL Standard 705 listed
- Ventilators are CSA listed according to Standard C22.2 No. 113-M1984 (Fans & Ventilators)

Ventilator Construction

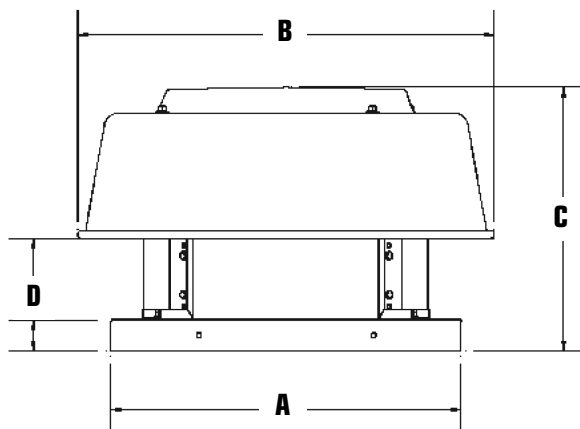
- 10", 12", 14" and 16" models are wall mountable
- Durable spun aluminum hood construction and galvanized venturi, inlet and supports
- Stamped, aluminum axial fan blades with galvanized hub
- Externally cooled motor compartment
- Motors are 115V or 115/230V, 60 Hz, ball bearing motors with Class B insulation
- Maximum inlet temperature is 140°F
- Built-in bird screen to protect discharge and ensure safe, obstruction-free operation

- Motor and propeller are easily detachable without removing ventilator from curb
- Junction box mounted in motor compartment
- Windband rolled bead for added strength and easy maneuverability
- Welded curb cap corners eliminate water entry into ducts or building
- All units require single phase power and are fully speed-controllable (5ADE18GB, 5ADE20GB and 5ADE24FB are not speed-controllable)

Accessories (available separately)

- For more information, see Power Roof Ventilator Accessories
- Fixed ventilated mounting curbs.
- Speed controllers.
- NEMA 1, NEMA 3R and NEMA 4 disconnect switches.
- Backdraft dampers.

Unit to be hard-wired and connected to thermostat to operate during summer overheat condition.



Fantech, Inc. and Systemair Mfg. Inc. certify that the Direct-Drive Axial Exhaust Downblast Roof Ventilators shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Model No.	Fan Dia. (In.)	Dimensions (In.)				Total Ship Wt. (Lbs.)	Gauge Thickness (In.)		Recommended Roof Opening (In.)	Optional Accessories			
		A	B	C	D		Venturi	Hood		Exhaust Damper Model No.	8" Fixed Curb Model No.	12" Fixed Curb Model No.	Speed Controller Model No.
5ADE102A	10	19	23-5/8	13-3/8	5-1/2	35	0.063	0.13	14-1/2 x 14-1/2	5ACC12RD	5ACC17FS	5ACC17FT	5ACC03SC
5ADE121A	12	22	28	15-1/2	6-1/2	54	0.063	0.13	14-1/2 x 14-1/2	5ACC15RD	5ACC20FS	5ACC20FT	5ACC03SC
5ADE12BA	12	22	28	15-1/2	6-1/2	54	0.063	0.13	14-1/2 x 14-1/2	5ACC15RD	5ACC20FS	5ACC20FT	5ACC03SC
5ADE14AA	14	22	30-1/8	15-1/2	6-5/16	62	0.063	0.03	17-1/2 x 17-1/2	5ACC15RD	5ACC20FS	5ACC20FT	5ACC03SC
5ADE14EA	14	22	30-1/8	15-1/2	6-5/16	62	0.063	0.03	17-1/2 x 17-1/2	5ACC15RD	5ACC20FS	5ACC20FT	5ACC06SC
5ADE16AA	16	26	33-1/4	16-1/2	6-1/8	68	0.063	0.03	21-1/2 x 21-1/2	5ACC19RD	5ACC24FS	5ACC24FT	5ACC03SC
5ADE16EA	16	26	33-1/4	16-1/2	6-1/8	68	0.063	0.03	21-1/2 x 21-1/2	5ACC19RD	5ACC24FS	5ACC24FT	5ACC06SC
5ADE18CA	18	30	36	18-3/4	7-1/2	86	0.063	0.03	25-1/2 x 25-1/2	5ACC23RD	5ACC28FS	5ACC28FT	5ACC06SC
5ADE18GB	18	30	36	18-3/4	7-1/2	96	0.063	0.03	25-1/2 x 25-1/2	5ACC23RD	5ACC28FS	5ACC28FT	—
5ADE20DB	20	34	38-3/4	18-3/4	7-1/2	128	0.063	0.03	29-1/2 x 29-1/2	5ACC27RD	5ACC32FS	5ACC32FT	5ACC06SC
5ADE20GB	20	34	38-3/4	18-3/4	7-1/2	128	0.063	0.03	29-1/2 x 29-1/2	5ACC27RD	5ACC32FS	5ACC32FT	—
5ADE24DB	24	34	45	18-3/4	7-1/2	140	0.063	0.03	29-1/2 x 29-1/2	5ACC27RD	5ACC32FS	5ACC32FT	5ACC10SC
5ADE24FB	24	34	45	18-3/4	7-1/2	140	0.063	0.03	29-1/2 x 29-1/2	5ACC27RD	5ACC32FS	5ACC32FT	—

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Model No.	HP	RPM	TS (FPM)	Max. BHP	Volts	0.0" SP	0.125" SP	0.250" SP	0.375" SP	0.500" SP	0.625" SP	0.750" SP	0.875" SP	1.00" SP
					Max. Op. Amps	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM
						Sones†	Sones†	Sones†	Sones†	Sones†	Sones†	Sones†	Sones†	Sones†
5ADE102A	1/30	1759	4605	—	115	547	423	269	191					
					0.9	8.9	9.1	9.3	10.0					
5ADE121A	1/5	1157	3635	0.11	115	1000	740	526	351	137				
					1.6	6.3	6.4	7.2	11.2	—				
5ADE12BA	1/4	1764	5542	0.18	115	1423	1219	993	891	644	441	225		
					2.3	10.0	10.5	10.8	13.0	15.3	—	—		
5ADE14AA	1/6	1152	4222	0.15	115	1640	1363	1065	614	221				
					2.0	7.4	7.5	8.1	10.5	12.6				
5ADE14EA	3/4	1743	6388	0.37	115	2379	2218	2013	1791	1488	1189	726	253	
					3.7	13.4	13.3	13.2	15.0	16.7	20	23	19.5	
5ADE16AA	1/6	1130	4733	0.20	115	2072	1735	1394	940	497				
					2.2	9.9	10.3	11.3	11.7	12.0				
5ADE16EA	3/4	1730	7246	0.49	115	2767	2571	2367	2159	1958	1625	1377	1155	936
					4.5	17.9	17.2	16.5	18.0	19.3	21	22	24	26
5ADE18CA	1/3	1093	5150	0.41	115	2989	2596	2328	2076	1841	1628	1192	741	313
					4.7	11.6	11.0	10.3	12.0	13.5	15.7	—	—	—
5ADE18GB	1 1/2	1716	8086	1.0	115/230	4525	4151	3973	3775	3558	3343	3147	2792	2370
					10.7/5.4	23	23	23	24	24	24	26	28	30
5ADE20DB	1/2	1113	5827	0.55	115/230	3716	3448	3109	2779	2513	2053	1590	1263	847
					4.2/2.6	14.7	14.6	14.6	15.0	15.1	17.6	19.9	—	—
5ADE20GB	1 1/2	1695	8875	1.3	115/230	5275	5002	4748	4486	4197	3921	3636	3274	2997
					12.6/6.3	27	28	29	30	30	28	26	29	32
5ADE24DB	1/2	1045	6566	0.57	115/230	4769	4429	4098	3694	3195	2568	2017	1546	1094
					7.4/3.8	19.2	19.0	17.5	16.7	16.4	—	—	—	—
5ADE24FB	1	1096	6886	0.90	115/230	5379	5024	4595	4168	3821	3455	2989	2409	2024
					10.4/5.2	21	20	19.0	22	24	22	20	23	—

Performance certified is for installation type A: Free Inlet, Free Outlet. Performance ratings include the effects of bird screens. Speed (RPM) shown is nominal, and performance shown is based on actual speed of test.

† The sound ratings are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA standard 301. Values shown are for Installation Type A, Free Inlet hemispherical sone levels.

Typical Specifications:

Direct-Drive Axial Exhaust Roof Ventilators

Roof mount exhaust fans shall be axial downblast direct-drive type. Propeller shall be constructed of a steel hub with galvalum or aluminum blades. Propellers shall be statically and dynamically balanced. The fan housing shall be constructed of heavy gauge aluminum with a rigid steel support structure. Baffles and motor compartment hoods shall have a rolled bead for added strength. Motors shall be readily accessible for maintenance. A junction box shall be factory installed to permit a disconnect switch to be wired to the fan motor within the motor compartment. A conduit chase shall be provided through the curb cap to the motor compartment for ease of electrical wiring. All fans shall bear the AMCA Certified Ratings Seal for sound and air performance. Each fan shall bear a permanently affixed manufacturer's nameplate containing model number and carry a one-year warranty. Fans shall be Fantech Model Direct-Drive Axial Exhaust Downblast Roof Ventilators as manufactured by Systemair Mfg. Inc., Lenexa, Kansas.