Air Movement SOURCE BOOK

ACME AIR MOVING SOLUTIONS

www.acmefan.com





Direct Drive Tubeaxial Fan Model HDD

Est. 1938

Includes the following Model/Options
HDD General Ventilation

Model HDD fan is a direct drive, tubeaxial exhauster with the motor in the airstream. Capacities up to 14,792 CFM and up to 3/4 inch static pressure. The compact design provides easy installation with ducted ventilation systems. The HDD is designed to operate in any position and is furnished with mounting flanges on both ends for easy installation.





Standard Construction Features	HDD
Heavy Gauge Rolled Steel	х
Charcoal Baked Enamel w/UV Inhibitors	х
Integral Inlet and Outlet Flanges	х
Aluminum Propeller	х
Motor in the Airstream	х
Continuous Duty Motors	х
NEMA 1 Disconnect Mounted and Wired	х
UL705	х

*Fans with EXP motors receive an EXP disconnect not mounted or wired Listed models are available in all sizes and performance ranges. For submittals, detailed air and sound information, available options and accessories, please go to FANtasticl® Commercial www.acmefan.com.

Construction Features

Housing

- · Rolled flange at each end for ease of mounting
- · Steel fasteners are zinc dichromate plated

Coating

 All steel components shall have ACME-SEAL polyester powder coating



Aluminum Propeller

- · Heavy duty, all welded aluminum construction
- Precision balanced circular-arc blades for high airflow capacity

Disconnect Switch

- · All units are equipped with a factory wired disconnect switch
- Explosion proof switch separate when explosion proof motors are selected

Motors

- · Continuous duty motors located in the airstream
- · Motors shipped mounted to the fan

Options/Accessories

- Coatings
- 2 Speed Switch
- · Solid State Speed Controller
- Companion Flange
- · Mounting Base
- Guards
- Isolators



Acme Engineering & Manufacturing Corporation certifies that the models 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.

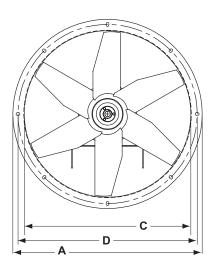


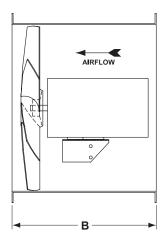
U.L. 705 Listed



Consult your Acme representative for availability.







		DIMENSIONS	3	
Fan Model	Α	В	С	D
HDD12	14.56	14.00	12.22	13.44
HDD16	18.50	14.00	16.10	17.50
HDD18	21.00	16.00	18.48	19.88
HDD21	23.88	16.00	21.25	22.56
HDD24	26.88	18.00	24.44	25.75
HDD30	33.64	21.00	30.60	32.25

Dimensions are shown in inches.

HDD12E4

	PERFORMANCE DATA																											
	CFM and Sones vs. Static Pressure																											
	0.000" 0.125"		0.125"		0.125"		0.125"		0.125"		0.125"		0.125"		0.125"		0.125"		0.125" 0.250"		0.:	375"	0.500"		0.625"		0.750"	
RPM	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones														
1750	1625		14	468																								
1750	0.13	11.1	0.14	12.3																								

Fan Model	НР	RPM Range	Est. Unit Wt. Ibs.	Est. Ship Wt. Ibs.
HDD12E4	1/4 Hp	1750 - 1750	35	40

HDD16F4

						PERFO	RMANG	CE DATA						
	CFM and Sones vs. Static Pressure													
	0.000" 0.125		0.000" 0.125" 0.250"		0.000" 0.125"		0.:	375"	0.500"		0.625"		0.750"	
RPM	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones
1750	2762 2603 2379													
1750	0.32	22	0.35	20	0.36	19.8								

Fan Model	HP	RPM Range	Est. Unit Wt. Ibs.	Est. Ship Wt. Ibs.
HDD16F4	1/3 Hp	1750 - 1750	45	50

HDD18G4

	PERFORMANCE DATA															
	CFM and Sones vs. Static Pressure															
	0.0	000"	0.	125"	0.2	250"	0.3	375"	0.9	500"	0.0	625"	0.7	750"		
RPM	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones		
1160	20	608	2:	304	1	1790		1790								
1160	0.12	7.0	0.14	9.4	0.15	11.3										
1750	39	936	3	728	3	3525		329	3	049						
1750	0.41	20	0.44	24	0.48	26	0.50	28	0.52	30						

Fan Model	НР	RPM Range	Est. Unit Wt. Ibs.	Est. Ship Wt. Ibs.
HDD18G4	1/2 Hp	1160 - 1160	64	74
HDD18G4	1/2 Hp	1750 - 1750	64	74

HDD18H4

						PERFO	RMANG	CE DATA						
CFM and Sones vs. Static Pressure														
	0.000" 0.125" 0.250" 0.375" 0.500" 0.625" 0.750"										750"			
RPM	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones
1160	3093 2734			734										
1100	0.20	8.8	0.22	10.7										
1750	4	668	4	434	4	4197 39		935	3667					
1750	0.69	26	0.72	28	0.74	30	0.77	32	0.80	34				

Fan Model	НР	RPM Range	Est. Unit Wt. Ibs.	Est. Ship Wt. Ibs.
HDD18H4	3/4 Hp	1160 - 1160	68	74
HDD18H4	3/4 Hp	1750 - 1750	68	74

HDD21J4

						PERFO	RMANO	E DATA						
	CFM and Sones vs. Static Pressure													
	0.0	000"	" 0.125"		0.125" 0.250" 0.375"			0.500"		0.625"		0.750"		
RPM	ВНР	Sones	ВНР	BHP Sones BHP Sones BHP Sones		ВНР	Sones	ВНР	Sones	ВНР	Sones			
1750	6190 5997		5757		5479		5189		48	895	4	492		
1750	0.85	27	0.90	27	0.95	26	1.00	24	1.05	24	1.08	25	1.10	31

Fan Model	НР	RPM Range	Est. Unit Wt. Ibs.	Est. Ship Wt. Ibs.
HDD21J4	1 Hp	1750 - 1750	75	85

HDD24J6

	PERFORMANCE DATA													
	CFM and Sones vs. Static Pressure													
	0.0	000"	0.	125"	0.2	250"	0.3	375"	0.9	500"	0.6	625"	0.	750"
RPM	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones
580	4196													
360	0.11	5.4												
1160	8403		7	962	74	437								
1160	0.90	20	0.95	22	1.00	23								

Fan Model	НР	RPM Range	Est. Unit Wt. Ibs.	Est. Ship Wt. Ibs.
HDD24J6	1 Hp	580 - 1160	108	130

Performance certified is for Installation Type A: Free Inlet, Free Outlet. The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances (accessories).

HDD30

	PERFORMANCE DATA													
					CFM			Static Pre						
	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"	
RPM	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones	ВНР	Sones
222	3159													
232	0.02	0.9												
1160	15902		15	339	14772		14190		13538		12865		12042	
1160	2.65	27	2.74	28	2.84	30	2.93	31	3.02	33	3.11	34	3.19	34

Fan Model HP		RPM Range	Est. Unit Wt. Ibs.	Est. Ship Wt. Ibs.	
HDD30M6	3 Hp	232 - 1160	237	241	

Your Representative is	

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