

Panel Fan Direct Drive Series FHI

TRIANGLE ENGINEERING
of Arkansas, Inc.
SOUND FIGHTER FANS
www.trianglefans.com • 1-800-255-9014



AIRFOIL BLADES

NON-OVERLOADING AIRFOIL Cast Aluminum Fan Blades are a special feature to insure high operating efficiencies. Conventional flat blades cause excessive air turbulence which results in motor overloads and poor acoustic performance.

Standard Features

- Heavy duty cast aluminum propeller with Airfoil blades for quiet, efficient operation. Standard construction is 4-bladed propeller through 36" and 6-bladed propeller through 60". Other duties and arrangements are available. Consult factory.
- Deep spun venturi-type orifice for quieter, more efficient operation.
- Rugged all-welded structural frame for added support and lower vibration.
- Taper-lock bushing between propeller and shaft for ease of removal, should it become necessary.
- Motors are totally enclosed, fan cooled

as standard. (Open motors are not recommended.)

- All available motor configurations (chemical type, 50 cy, etc.) are available as an option.
- Formed motor mounting plate to minimize vibration.
- Split Tapered Standard Drive Hubs permit easy removal of the fan from the shaft for maintenance purposes
- Standard finish: Coated with a polyester powder coat paint system for long life and superior corrosion resistance.

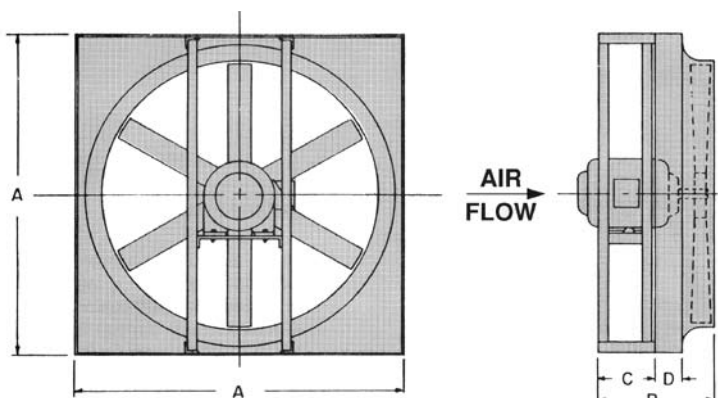
Accessory Equipment

- **RAIN LOUVERS** supplied in heavy duty galvanized steel to protect against rain on supply units.
- **WALL BOXES** for mounting to wall openings and/or for mounting screens or shutters. (Can also be used to convert wall fan into semi-portable spot or man cooler.)
- **SHUTTERS** are available in air, manual and electric motor operated types.
- **DISCHARGE SCREENS** are constructed of heavy gauge wire and of a mesh suitable for most industrial applications.



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1101 N. Redmond Rd., Jacksonville Arkansas 72076
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ALL ANGLE OPERATION:
Fan can be mounted vertically in a wall, horizontally in a roof with appropriate hood cover, or at any intermediate angle.

FAN MODEL	MOTOR HP	PROPELLER		DIMENSIONS			
		RPM	DIA.	A	B	C	D
FHI-24-DD	1/2	1150	24	30	16-1/2	9-1/2	3
FHI-24-DD	3/4	1150	24	30	16-1/2	9-1/2	3
FHI-24-DD	1	1150	24	30	16-1/2	9-1/2	3
FHI-24-DD	1-1/2	1750	24	30	16-1/2	9-1/2	3
FHI-30-DD	1/2	860	30	36	17-1/2	10-1/2	3
FHI-30-DD	3/4	860	30	36	17-1/2	10-1/2	3
FHI-30-DD	1	1150	30	36	17-1/2	10-1/2	3
FHI-30-DD	2	1150	30	36	17-1/2	10-1/2	3
FHI-30-DD	3	1750	30	36	17-1/2	10-1/2	3
FHI-36-DD	3/4	860	36	42	17-1/2	10-1/2	3
FHI-36-DD	1	860	36	42	17-1/2	10-1/2	3
FHI-36-DD	2	1150	36	42	17-1/2	10-1/2	3
FHI-36-DD	3	1150	36	42	20	13	3
FHI-36-DD	5	1150	36	42	20	13	3
FHI-36-DD	7-1/2	1150	36	42	20	13	3
FHI-42-DD	2	860	42	48	22	15	3
FHI-42-DD	5	860	42	48	22	15	3
FHI-42-DD	5	1150	42	48	22	15	3
FHI-42-DD	7-1/2	1150	42	48	22	15	3
FHI-42-DD	10	1150	42	48	22	15	3
FHI-48-DD	3	860	48	54	22	13	3
FHI-48-DD	5	860	48	54	22	15	3
FHI-48-DD	7-1/2	860	48	54	22	15	3
FHI-48-DD	7-1/2	1150	48	54	22	15	3
FHI-48-DD	10	1150	48	54	23-1/2	16-1/2	3
FHI-48-DD	15	1150	48	54	23-1/2	16-1/2	3
FHI-54-DD	5	860	54	60	22	15	3
FHI-54-DD	7-1/2	860	54	60	22	15	3
FHI-54-DD	10	860	54	60	23-1/2	16-1/2	3
FHI-60-DD	5	860	60	66	22	15	4
FHI-60-DD	7-1/2	860	60	66	23-1/2	16-1/2	4
FHI-60-DD	10	860	60	66	23-3/4	15-1/2	4

Direct Drive Series FHI

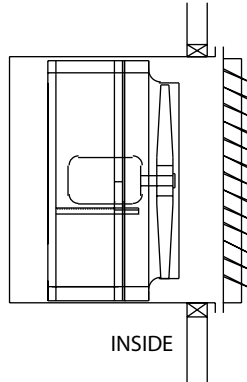
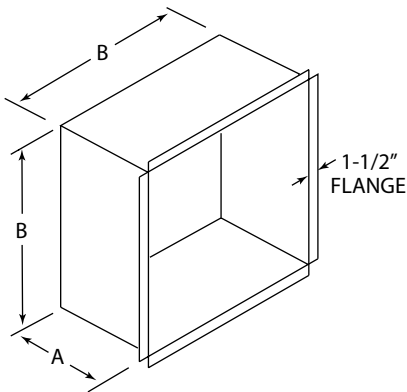
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	MODEL NO.	MTR. HP	RPM	TIP SPEED	PEAK BHP	CFM							
						.00"SP	.10"SP	.125"SP	.25"SP	.375"SP	.50"SP	.75"SP	1.00"SP
4 Blades	FHI-24-DD	1/2	1150	7159	.48	5400	5120	5070	4600	3860	3050		
	FHI-24-DD	3/4	1150	7159	.72	6830	6410	6290	5670	4428	3341		
	FHI-24-DD	1	1150	7159	1.00	7396	6874	6744	6091	4935	3779	2494	
	FHI-24-DD	1-1/2	1750	10990	1.15	8320	8140	8100	7790	7450	6762	5710	4499
	FHI-30-DD	1/2	860	6751	.48	7770	7180	6950	5720	4170	1870		
	FHI-30-DD	3/4	860	6751	.71	9340	8650	8420	7210	5810	4090		
	FHI-30-DD	1	1150	8949	1.10	10400	10110	9950	9120	8210	7200	4670	
	FHI-30-DD	2	1150	8949	1.73	12500	12080	11920	11080	10190	9220	6683	3210
	FHI-30-DD	3	1750	13737	2.98	13920	13560	13440	12980	12520	12040	10860	9597
	FHI-36-DD	3/4	860	8110	.70	12003	11404	11217	9946	8436	6790	3253	
	FHI-36-DD	1	860	8110	1.17	15046	14246	14059	12937	11674	10208	5369	
	FHI-36-DD	2	1150	10845	1.68	16050	15500	15300	14200	12850	11300	7850	4350
	FHI-36-DD	3	1150	10845	2.85	20120	19370	19100	18020	16920	15600	12450	7185
	FHI-36-DD	5	1150	10845	4.87	21370	20920	20800	20150	19450	18680	16700	13960
	FHI-36-DD	7-1/2	1150	10845	7.06	24650	24150	24000	23180	22300	21400	19300	16050

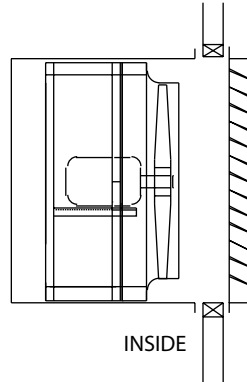
	MODEL NO.	MTR. HP	RPM	TIP SPEED	PEAK BHP	CFM							
						.00"SP	.10"SP	.125"SP	.25"SP	.375"SP	.50"SP	.75"SP	1.00"SP
6 Blades	FHI-42-DD	2	860	9460	2.23	20051	19391	19165	18281	17361	16292	13753	10081
	FHI-42-DD	5	860	9460	5.49	29021	28342	28013	27072	25929	24727	22156	15046
	FHI-42-DD	5	1150	12650	5.21	26812	26127	26076	25089	24120	23142	21054	18354
	FHI-42-DD	10	1150	12650	9.89	32709	32054	31910	30820	29907	28970	26860	24397
	FHI-48-DD	3	860	10810	2.90	25900	24701	24402	22930	21305	19419	13672	
	FHI-48-DD	5	860	10810	5.39	33439	31982	31624	29915	28091	26220	21545	
	FHI-48-DD	7-1/2	860	10810	7.11	37980	36565	36213	34320	32303	30238	25550	
	FHI-48-DD	10	1150	14456	9.70	40598	39602	39306	38200	36904	35600	33096	30202
	FHI-48-DD	15	1150	14456	14.14	48820	47700	47402	46099	44795	43297	40403	37396
	FHI-54-DD	5	860	12160	4.99	36755	35208	34824	33021	30992	28802	23650	
	FHI-54-DD	7-1/2	860	12160	7.34	45662	44360	43854	41438	38668	36165	31356	24622
	FHI-54-DD	10	860	12160	10.40	50262	48678	48282	46142	43934	41632	36260	
	FHI-60-DD	5	860	13510	4.57	38745	36993	36341	34348	31930	29515	24074	
	FHI-60-DD	7-1/2	860	13510	7.50	47730	46065	45663	43630	41323	38797	33103	
	FHI-60-DD	10	860	13510	10.21	57483	55349	54580	49652	44905	41085	33906	18585

FHI Series WALL BOXES

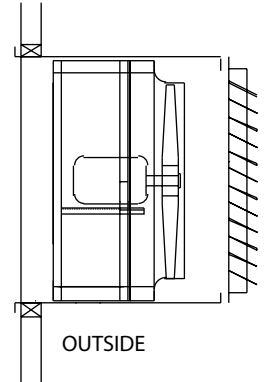
Standard sizes for use with
FHI Belt-Drive and Direct Drive Fans



BOX MOUNTED IN
WALL/SHUTTER
MOUNTED TO BOX



BOX MOUNTED IN
WALL/SHUTTER
MOUNTED TO OUTSIDE
OF WALL



BOX MOUNTED THROUGH
WALL/SHUTTER
MOUNTED TO OUTSIDE
OF BOX

NOTE: "A" DIMENSION WILL INCREASE 6" WHEN A BACKDRAFT DAMPER IS SPECIFIED TO BE MOUNTED INSIDE BOX.
WHEN INSTALLATION OF FAN REQUIRES A SHUTTER, A MINIMUM OF 6" SHOULD BE ALLOWED BETWEEN FAN BLADE AND SHUTTER.
CONSULT FACTORY FOR SPECIAL APPLICATIONS AND SIZES.

BOX MODEL	MOTOR HP	A DIMENSION	B DIMENSION	HOLE SIZE	FLANGE SIZE	GAUGE
S-24	1/4 HP-2 HP	22-1/2"	30-3/8" O.D.	30-3/4" X 30-3/4"	1-1/2"	16
	3 HP	28-1/2"	30-3/8" O.D.	30-3/4" X 30-3/4"	1-1/2"	16
S-30	1/2 HP-2 HP	22-1/2"	36-3/8" O.D.	36-3/4" X 36-3/4"	1-1/2"	16
	3 HP-5 HP	28-1/2"	36-3/8" O.D.	36-3/4" X 36-3/4"	1-1/2"	16
S-36	1 HP-2 HP	22-1/2"	42-3/8" O.D.	42-3/4" X 42-3/4"	1-1/2"	16
	3 HP - 7-1/2 HP	28-1/2"	42-3/8" O.D.	42-3/4" X 42-3/4"	1-1/2"	16
S-42	1-1/2 HP-2 HP	22-1/2"	48-3/8" O.D.	48-3/4" X 48-3/4"	1-1/2"	16
	3 HP - 7-1/2 HP	28-1/2"	48-3/8" O.D.	48-3/4" X 48-3/4"	1-1/2"	16
	10 HP	34-1/2"	48-3/8" O.D.	48-3/4" X 48-3/4"	1-1/2"	16
S-48	1-1/2 HP-5 HP	28-1/2"	54-3/8" O.D.	54-3/4" X 54-3/4"	1-1/2"	16
	7-1/2 HP- 10 HP	34-1/2"	54-3/8" O.D.	54-3/4" X 54-3/4"	1-1/2"	16
S-54	2 HP-5 HP	28-1/2"	60-3/8" O.D.	60-3/4" X 60-3/4"	1-1/2"	16
	7-1/2 HP- 10 HP	34-1/2"	60-3/8" O.D.	60-3/4" X 60-3/4"	1-1/2"	16
S-60	2 HP-5 HP	28-1/2"	66-3/8" O.D.	66-3/4" X 66-3/4"	1-1/2"	16
	7-1/2 HP-10 HP	34-1/2"	66-3/8" O.D.	66-3/4" X 66-3/4"	1-1/2"	16
S-72	3 HP-5 HP	28-1/2"	78-3/8" O.D.	78-3/4" X 78-3/4"	1-1/2"	16
	7-1/2 HP - 10 HP	34-1/2"	78-3/8" O.D.	78-3/4" X 78-3/4"	1-1/2"	16
	15 HP - 20 HP	40-1/2"	78-3/8" O.D.	78-3/4" X 78-3/4"	1-1/2"	16
	25 HP	46-1/2"	78-3/8" O.D.	78-3/4" X 78-3/4"	1-1/2"	16
S-84	5 HP	28-1/2"	90-3/8" O.D.	90-3/4" X 90-3/4"	1-1/2"	16
	7-1/2 HP - 10 HP	34-1/2"	90-3/8" O.D.	90-3/4" X 90-3/4"	1-1/2"	16
	15 HP-20 HP	40-1/2"	90-3/8" O.D.	90-3/4" X 90-3/4"	1-1/2"	16
	25 HP	46"	90-3/8" O.D.	90-3/4" X 90-3/4"	1-1/2"	16