



MODEL HRSB HOODED BELT DRIVE PROPELLER ROOF SUPPLY FAN

APPLICATION

Models HRSB are used in a variety of commercial and industrial operations such as warehouses, manufacturing plants, equipment and machinery rooms, assembly plants and similar facilities to provide fresh outside air for personal comfort and to reduce negative pressure caused by exhaust systems.

Hood sizes 58 to 78 inch (represents fan sizes 24 to 36 inch) ship assembled. Hood sizes 87 to 111 inch (represent fans sizes 42 to 60 inch) ship separate for field attachment.

CONSTRUCTION

Panel Assembly

- Heavy-gauge G90 galvanized steel panel.
- All welded support structure of minimum schedule 40 galvanized pipe.
- Motor/bearing plates of minimum 10 gauge galvanized steel.

Hood

- All heavy-gauge G90 galvanized steel.
- Low silhouette modular design for pleasing appearance.
- Unique design rain gutter minimizes water entrapment.
- Gutter provides additional hood strength and rigidity.
- Hinged for maintenance access.

Base

- All galvanized construction for corrosion resistance.
- Removable panel for damper access.

Propeller

- Three, four or six wing airfoil aluminum blades.
- Steel hub plate with steel taper lock bushing.

Bearings

- Bearings designed for minimum 200,000 hour life.
- Bearings are sealed, prelubricated with relube fittings.

DIMENSIONAL DATA

MODEL HRSB	A	B	C	D	E	Average Ship Wt. Lbs.
24	58	35	27	31	23	425
30	66	41	33	32	23	545
36	78	47	36	34	23	690
42	87	53	42	43	30	620
48	99	59	48	44	30	760
54	111	65	54	45	30	1150
60	111	71	60	46	30	1335

C=RECOMMENDED ROOF OPENING

MODEL HRSB	RECOMMENDED 12" HIGH MOUNTING CURB		RECOMMENDED GRAVITY DAMPER	
	OD	STOCK NO.	OD	STOCK NO.
24	33 1/4	2302.12.24HR	26	S3GA26CB
30	39 1/4	2302.12.30HR	32	S3GA32CB
36	45 1/4	2302.12.36HR	38	S3GA38CB
42	51 1/4	2302.12.42HR	44	S3GA44CB
48	57 1/4	2302.12.48HR	50	S3GA50CB
54	63 1/4	2302.12.54HR	56	S3GA56CB
60	69 1/4	2302.12.60HR	62	S3GA62CB

ALL DIMENSIONS IN INCHES, WEIGHTS IN POUNDS. OD IS OUTSIDE DIMENSION OF SQUARE CURB AND DAMPER. DUE TO CONTINUING RESEARCH, SOLER & PALAU RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.



Drives

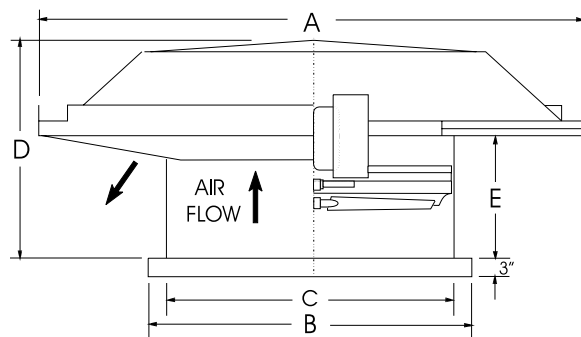
- Sized for minimum 150% of drive horsepower.
- Single belt adjustable pitch sheaves through 3HP.
- Two belt fixed pitch sheaves through 10HP.
- Non static v-belts.

Motors

- Open drip-proof construction is standard.



LISTED POWER ROOF VENTILATOR
UL STANDARD 705



MODEL HRSB

Hooded Belt Drive Propeller Roof Supply Fan

Ventilator with Open Drip-proof
Motor and Drive Assembly

MODEL HRSB	MOTOR Hp	MAX BHp	RPM	SONES @ 0 SP	NO. OF BLADES	CFM at Static Pressure						115/1/60*	208-230/460/3/60
						0	1/8	1/4	3/8	1/2	3/4	STOCK NO.	STOCK NO.
24	1/3	0.38	930	15	3	4724	4043	2979	-	-	-	HRSB24PH1S	HRSB24PH3S
	1/2	0.58	1060	19	3	5444	4844	4022	3000	-	-	HRSB24QH1S	HRSB24QH3S
	3/4	0.85	1215	24	3	6171	5648	5049	4244	3315	-	HRSB24RH1S	HRSB24RH3S
	1	1.13	1335	28	3	6781	6302	5841	5121	4374	-	HRSB24SH1S	HRSB24SH3S
	1 1/2	1.70	1530	34	3	7771	7354	6946	6467	5830	4436	HRSB24TH1S	HRSB24TH3S
	2	2.25	1680	41	3	8533	8153	7777	7412	6881	5715	HRSB24VH1S	HRSB24VH3S
30	1/3	0.37	660	13	3	7099	5557	3085	-	-	-	HRSB30PH1S	HRSB30PH3S
	1/2	0.58	775	16	3	8194	6922	5008	-	-	-	HRSB30QH1S	HRSB30QH3S
	3/4	0.85	865	21	3	9304	8246	6822	4979	-	-	HRSB30RH1S	HRSB30RH3S
	1	1.15	950	24	3	10310	9369	8175	6585	-	-	HRSB30SH1S	HRSB30SH3S
	1 1/2	1.70	1090	30	3	11724	10915	9991	8841	7402	-	HRSB30TH1S	HRSB30TH3S
	2	2.27	1200	36	3	12908	12173	11373	10448	9266	-	HRSB30VH1S	HRSB30VH3S
	3	3.44	1370	45	3	14669	13780	12876	11851	10820	8804	N/A	HRSB30WH3S
36	1/3	0.38	495	11	3	9903	6558	-	-	-	-	HRSB36PH1S	HRSB36PH3S
	1/2	0.58	565	14	3	11381	8600	-	-	-	-	HRSB36QH1S	HRSB36QH3S
	3/4	0.85	645	18	3	12993	10696	7433	-	-	-	HRSB36RH1S	HRSB36RH3S
	1	1.14	710	21	3	14302	12333	9637	-	-	-	HRSB36SH1S	HRSB36SH3S
	1 1/2	1.73	815	27	3	16417	14783	12589	10000	-	-	HRSB36TH1S	HRSB36TH3S
	2	2.29	895	31	3	18029	16541	14686	12604	-	-	HRSB36VH1S	HRSB36VH3S
	3	3.44	1025	39	3	20647	19348	17959	16131	14300	-	N/A	HRSB36WH3S
42	1/2	0.58	445	13	3	14503	9169	-	-	-	-	HRSB42QH1S	HRSB42QH3S
	3/4	0.85	510	16	3	16525	12079	-	-	-	-	HRSB42RH1S	HRSB42RH3S
	1	1.15	560	19	3	18251	14350	-	-	-	-	HRSB42SH1S	HRSB42SH3S
	1 1/2	1.72	640	24	3	20858	17815	13510	-	-	-	HRSB42TH1S	HRSB42TH3S
	2	2.30	705	35	3	22977	20268	16414	12245	-	-	HRSB42VH1S	HRSB42VH3S
	3	3.43	805	46	3	26236	23863	20873	17540	13601	-	N/A	HRSB42WH3S
48	3/4	0.86	405	14	3	19542	11487	-	-	-	-	N/A	N/A
	1	1.14	445	17	3	21742	14137	-	-	-	-	HRSB48SH1S	HRSB48SH3S
	1 1/2	1.72	500	21	3	24493	17864	10164	-	-	-	HRSB48TH1S	HRSB48TH3S
	2	2.30	560	25	3	27161	22026	15327	-	-	-	HRSB48VH1S	HRSB48VH3S
	3	3.40	640	30	3	30881	26694	20675	15035	-	-	N/A	HRSB48WH3S
54	2	2.09	465	23	3	29628	23717	14745	-	-	-	HRSB54VH1S	HRSB54VH3S
	3	3.10	530	28	3	33769	29093	22202	-	-	-	N/A	HRSB54WH3S
	5	4.99	630	37	3	39709	35990	31085	25359	-	-	N/A	HRSB54XH3S
	7 1/2	7.47	720	47	3	45382	42128	38469	33640	28551	-	N/A	HRSB54YH3S
60	2	2.02	390	20	3	30739	25920	-	-	-	-	HRSB60VH1S	HRSB60VH3S
	3	3.05	450	26	3	35284	31586	23994	-	-	-	N/A	HRSB60WH3S
	5	4.99	530	35	3	41557	38758	34372	-	-	-	N/A	HRSB60XH3S
	7 1/2	7.59	610	44	3	47830	45398	42206	37327	39300	-	N/A	HRSB60YH3S

*Tri-voltage (115-208-230) is standard on 3/4 through 1 1/2 Hp Single phase motors. Tri-voltage is available for the 1/2 Hp motors. Inquire for price and delivery.

Power ratings (BHP) do not include transmission losses.

Performance certified is for installation type A-free inlet, free outlet. Performance ratings include the effects of appurtenances (accessories).

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for installation Type A-Free inlet fan sone levels.

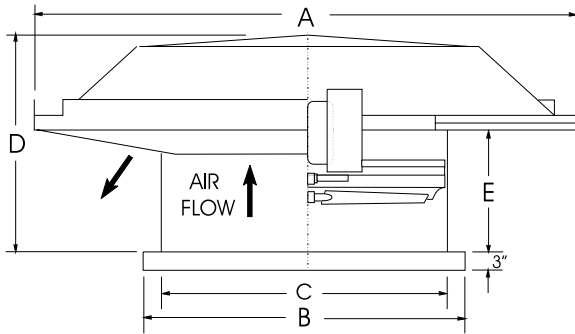
575/3/60 ODP Motors are available for most motor HP's - Refer to Price List.

PROPELLER ROOF VENTILATORS



SUBMITTAL DRAWING

HRSB HOODED AXIAL/PROPELLER POWER ROOF SUPPLY FAN BELT DRIVE - ALUMINUM AIRFOIL PROPELLERS



(Hoods on 42"-60" ship KD) (2)
Specify assembled if required

MODEL HRSB	A SQ O.D. HOOD (2)	B ID CURB CAP	C MIN. ID OPENING	D HEIGHT	E STACK	PREFAB CURB O.D.	METAL GAUGES (1)			AVG. SHIP WT. LBS.
							CROWN/SIDE HOOD	STACK	CURB CAP	
24	58	35	30	31	23	33 1/4	18/18	18	14	425
30	66	41	36	32	23	39 1/4	18/18	18	14	545
36	78	47	42	34	23	45 1/4	18/18	18	14	690
42	87	53	48	43	30	51 1/4	18/18	16	14	620
48	99	59	54	44	30	57 1/4	18/18	16	14	760
54	111	65	60	45	30	63 1/4	18/16	16	14	1150
60	123	71	66	46	30	69 1/4	18/16	16	14	1335

- All materials are G90 galvanized steel. All hoods are factory assembled
- Due to shipping limitations, 87" and larger hoods will ship separate requiring field attaching. Assembled 123" hoods must ship by double drop deck flat bed truck. This will affect normal freight rates.
- Hoods will hinge and front panel is removable for access to fan and optional damper.
- Propellers are 3, 4, or 6-bladed adjustable pitch, air-foil aluminum (Fixed pitch steel and Aluminum are also available).
- Dampers mount on accessory flanges inside curbs due to space restrictions and warranty clearance conditions.
- Delay switch required on models 5HP and larger (with motorized damper).
- Due to shipping limitations, sizes 42-60 are crated in 2 separate pieces

FAN SPECIFICATIONS									MOTOR SPECIFICATIONS				
Line	Qty.	Model No.	Tag	CFM	SP	Fan RPM	BHP	Sones	HP	Volts	Phase	Hertz	Encl
1													
2													
3													
4													
5													

ACCESSORY ITEMS					ACCESSORY ITEMS						
	1	2	3	4	5		1	2	3	4	5
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 Customer: _____ Approved: _____
 Location: _____