

# Hi-EX

Roof Ventilator

## TECHNICAL SPECIFICATIONS



PENN BARRY™

BULLETIN HX18

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# INTRODUCTION

## Hi-Ex Series of Roof Ventilators

A continuing demand exists in commercial and industrial buildings for high velocity roof ventilators which exhaust foul air and disperse it high above the roof. The Hi-Ex is ideal for the "spot" ventilation of specific problem areas where rapid air removal is necessary or for general plant ventilation. This "plug-in" or package ventilation is easily installed out of the way, up on the roof. It is accessible and yet does not use valuable interior areas, nor does it require costly duct systems.

Dampers open automatically when the fan is started. The airstream holds the dampers open and excludes weather until the power is shut off. Then, the dampers automatically close tight as the air blast diminishes.

The direct drive Hi-Ex, illustrated bottom-left, is a solid, compact unit completely self-contained. The standard silhouette is streamlined, and the straight-thru air blast provides rapid, friction-free, air removal. Note the components are all within the housing. They do not intrude nor protrude below the roof line. Two types of belt drive fans are available: one with the motor out of the airstream and the other with the motor inside the ventilator air shaft. Both arrangements permit capacity selections at fan speeds other than standard motor speeds. They enable the adjustment of air volumes on the job if necessary. Your fan schedule specification should indicate "remote drive" if desired.



Hi-Ex Direct Drive Model HC



Hi-Ex Belt Drive Model HZ



Hi-Ex Belt Drive Model HF

## STANDARD HEIGHT UNITS

### Model: HC - Cast Aluminum Propeller

- Static pressure up to 1.0" wg.
- Direct Drive - Flow capacity up to 33,030 CFM
- Belt Drive - Flow capacity up to 70,314 CFM

### Model: HX - Cast Aluminum Propeller

- Static pressure up to 0.75" wg.
- Direct Drive - Flow capacity up to 27,515 CFM
- Belt Drive - Flow capacity up to 33,160 CFM

### Model: HF - Fabricated Steel Propeller

- Static pressure up to 0.5" wg.
- Belt Drive - Flow capacity up to 51,120 CFM

## HITESAVER UNITS

### Model: HZ - Cast Aluminum Propeller

- Static pressure up to 0.75" wg.
- Direct Drive - Flow capacity up to 45,630 CFM
- Belt Drive - Flow capacity up to 82,481 CFM

### Model: HS Fabricated Steel Propeller

- Static pressure up to 0.5" wg.
- Belt Drive - Flow capacity up to 50,654 CFM

## HEAT & SMOKE UNITS

### Model: HS - With Heat & Smoke Exhaust Option

- Fabricated steel propeller
- Static pressure up to 0.5" wg.
- Remote Belt Drive - Flow capacity up to 50,654 CFM

# CERTIFICATIONS & LISTINGS



## AMCA Certification

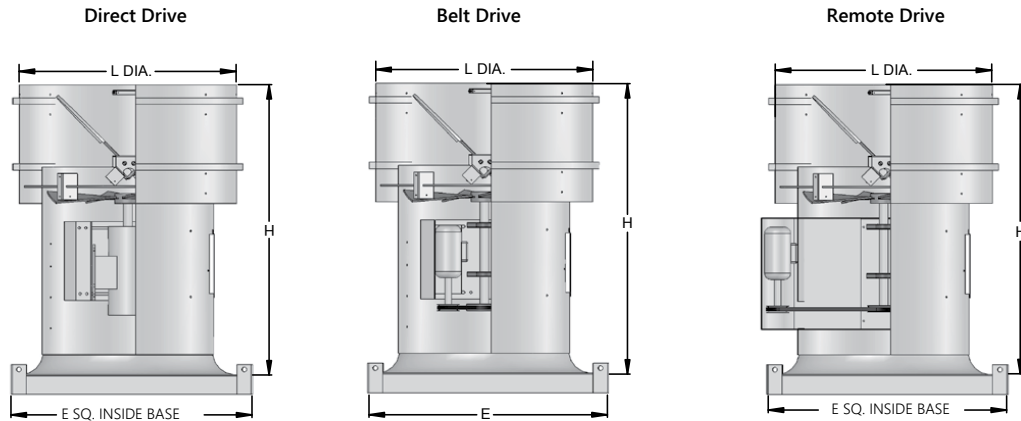
PennBarry certifies that models HS 30–48 roof exhausters on page 13 are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



## cULus Certification

Hi-Ex exhausters (models HC, HF, and HS) carry the UL label, UL705 (ZACT/ZACT7), file #E28413. Model HS with heat and smoke option carries the UL label, UL793 (ZAXH/ ZAXH7), file #MH19473.

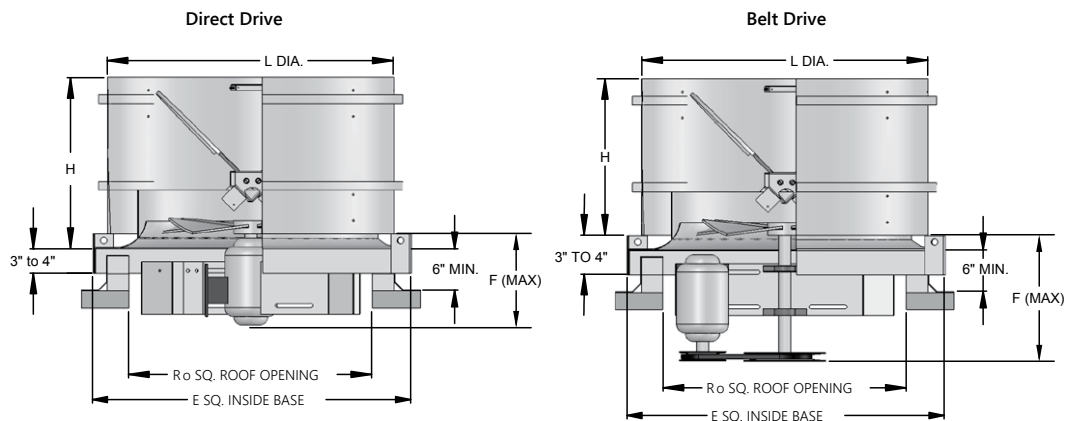
# DIMENSIONS| HC, HX, HF, & HZ



## HC, HX, & HF

Size	A	H	L	Ro	T	E
24	26	40 1/2	33	26	33 1/2	36
30	32	44	36	32	39 1/2	42
36	38	50	42	38	45 1/2	48
42	44	51	48	44	51 1/2	54
48	50	59	54	51	58 1/2	60
54	56	62	60	57	64 1/2	66
60	62	65	66	63	70 1/2	72
72	74	66 1/2	81	75	82 1/2	84

All dimensions in inches.

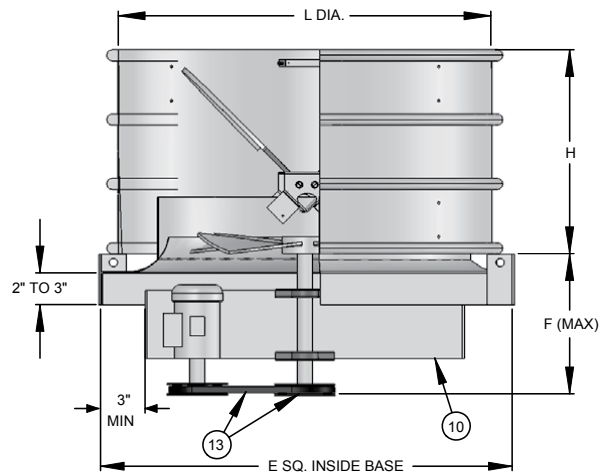


## HZ (HiteSaver)

Size	H	L Diameter	Ro	E SQ.	F Maximum	
					Direct	Belt
24	24	33	30 1/2	36	15	16 1/2
30	24	36	36 1/2	42	16	17 1/2
36	28	42	42 1/2	48	18	20
42	30	48	48 1/2	54	20	22
48	31	54	54 1/2	60	22	22
54	34	60	60 1/2	66	24	22
60	36	66	66 1/2	72	24	22

All dimensions in inches.

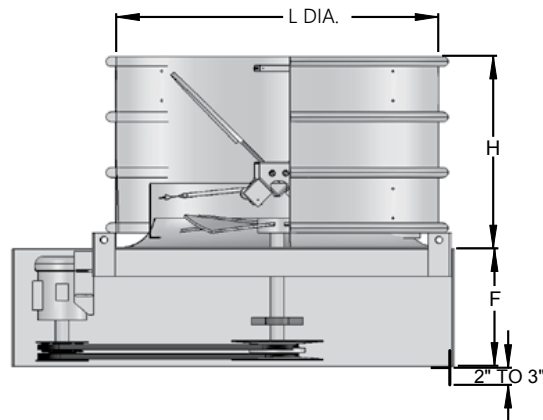
# DIMENSIONS| HS (HITESAVER)



## HS (Hitesaver)

Size	H	L Diameter	Ro	E SQ.	F (MAX)	Throat Area (Sq. Ft.)
24	24	33	30	33 1/2	15	3.14
30	24	36	34	38 1/2	15	4.90
36	26	42	40	44 1/2	15	7.07
42	30	48	46	50 1/2	18	9.63
48	32	54	52	56 1/2	18	12.57
54	34	60	61 1/2	66	18	15.91
60	36	66	67 1/2	72	18	19.64

All dimensions in inches



## HS with Heat and Smoke

Model	HS24	HS30	HS36	HS42	HS48	HS54	HS60
L Dia	33	36	42	48	54	60	66
H	24	24	26	30	32	34	36
E sq.	33 1/2	38 1/2	44 1/2	50 1/2	56 1/2	66	72
Ro sq.	30	34	40	46	52	61 1/2	67 1/2
F MAX.	24	24	24	24	24	24	24

Outside dimension of curb should be 1 1/2" less than 'E' dimension.  
All dimensions in inches. Must specify heat and smoke option when ordering.

# HC | PERFORMANCE DATA

## Direct Drive

Model	RPM	Tip Speed FPM	Fan Capacity - CFM													
			0" S.P.		.125" S.P.		.250" S.P.		.375" S.P.		.500" S.P.		.750" S.P.		1.000" S.P.	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
HC24T1	1140	7163	5050	0.32	4530	0.35	3775	0.36	2920	0.36	2230	0.38	-	-	-	-
HC24T2	1140	7163	7220	0.95	6160	0.94	4875	0.94	3510	0.93	2190	0.94	-	-	-	-
HC24Q	1750	10996	7750	1.15	7435	1.18	7090	1.23	6665	1.27	6140	1.29	5155	1.3	4070	1.32
HC30W1	860	6754	8200	0.38	7200	0.42	5940	0.44	3760	0.43	1610	0.42	-	-	-	-
HC30W2	860	6754	9470	0.64	8495	0.65	7440	0.66	5815	0.65	2930	0.68	-	-	-	-
HC30T1	1140	8954	10870	0.88	10165	0.95	9345	0.99	8500	1.03	7230	1.04	3615	0.97	1250	1.19
HC30T2	1140	8954	12555	1.48	11820	1.5	11075	1.52	10290	1.54	9475	1.56	6410	1.51	-	-
HC36W1	860	8105	11975	0.86	10490	0.9	8730	0.93	5585	0.96	2465	1.1	-	-	-	-
HC36W2	860	8105	15690	1.71	14690	1.78	13565	1.83	12050	1.85	10420	1.82	4935	1.63	-	-
HC42W1	860	9456	20440	1.92	18765	2	17025	2.02	15005	2.09	10935	2.17				
HC42W2	860	9456	23105	3.59	21970	3.69	20705	3.75	19235	3.75	17225	3.77	12550	3.74	7365	3.53
HC48W1	860	10807	30135	3.99	28195	4.07	26140	4.15	23890	4.22	21345	4.32	-	-	-	-
HC48W2	860	10807	33030	5.65	31415	5.74	29705	5.83	27900	5.89	25930	5.89	21325	5.74	13025	5.37

## Belt Drive

Model	RPM	Tip Speed FPM	Fan Capacity - CFM													
			0" S.P.		.125" S.P.		.250" S.P.		.375" S.P.		.500" S.P.		.750" S.P.		1.000" S.P.	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
HC24	1105	6943	4895	0.29	4350	0.32	3610	0.33	2730	0.33	2015	0.35	-	-	-	-
	1265	7948	5600	0.43	5150	0.46	4505	0.49	3850	0.49	3080	0.49	1895	0.55	-	-
	1450	9111	6420	0.65	6030	0.68	5555	0.72	4935	0.74	4370	0.74	3030	0.77	2115	0.83
	1595	10022	7065	0.87	6715	0.9	6315	0.95	5800	0.97	5240	0.99	4080	0.98	3045	1.05
HC30	890	6990	8485	0.42	7525	0.46	6415	0.49	4545	0.48	2120	0.45	-	-	-	-
	1020	8011	9725	0.63	8920	0.69	8025	0.72	6785	0.74	5075	0.72	-	-	-	-
	1125	8836	10725	0.84	10010	0.92	9180	0.95	8310	0.99	6980	1	3300	0.92	-	-
	1285	10092	12250	1.26	11640	1.35	10925	1.4	10200	1.44	9430	1.48	6985	1.46	3525	1.37
HC36	635	5985	11585	0.69	10150	0.73	8080	0.74	4455	0.67	-	-	-	-	-	-
	700	6597	12770	0.92	11500	0.97	9780	1	7590	0.97	3955	0.88	-	-	-	-
	800	7540	14595	1.37	13515	1.44	12225	1.48	10490	1.48	8455	1.44	-	-	-	-
	880	8294	16055	1.83	15085	1.9	13970	1.96	12550	1.98	10995	1.96	5575	1.75	-	-
	1010	9519	18425	2.76	17595	2.85	16675	2.92	15660	2.98	14340	2.99	11415	2.92	6280	2.64
HC42	550	6048	14775	0.94	12845	0.98	9775	0.98	5870	0.94	-	-	-	-	-	-
	630	6927	16925	1.41	15300	1.47	13025	1.48	9945	1.47	6495	1.4	-	-	-	-
	695	7642	18670	1.89	17225	1.97	15450	1.98	12895	1.99	9895	1.97	-	-	-	-
	795	8742	21360	2.84	20120	2.92	18705	2.96	16840	2.98	14570	2.97	9240	2.85	-	-
	945	10391	25390	4.76	24365	4.88	23250	4.95	22055	4.97	20445	5	16600	4.98	12085	4.85
HC48	540	6786	20740	1.4	18060	1.45	14775	1.44	9805	1.35	-	-	-	-	-	-
	600	7540	23045	1.92	20660	1.98	17935	2	14605	1.94	8295	1.82	-	-	-	-
	685	8608	26310	2.86	24245	2.93	21995	2.98	19410	2.96	16410	2.88	-	-	-	-
	810	10179	31110	4.72	29385	4.81	27565	4.89	25595	4.93	23415	4.91	18515	4.72	-	-
HC54	490	6927	24440	1.42	21575	1.45	17145	1.46	8235	1.28	-	-	-	-	-	-
	540	7634	26935	1.91	24340	1.94	20700	1.96	16030	1.91	6050	1.66	-	-	-	-
	620	8765	30925	2.89	28635	2.93	26230	2.95	22335	2.99	18175	2.88	-	-	-	-
	735	10391	36660	4.81	34710	4.88	32850	4.88	30545	4.92	27160	4.97	19780	4.7	5555	4.28
	845	11946	42145	7.31	40440	7.4	38825	7.42	37225	7.43	35025	7.48	29435	7.5	22375	7.11

# HC | PERFORMANCE DATA

Model	RPM	Tip Speed FPM	Fan Capacity - CFM													
			0" S.P.		.125" S.P.		.250" S.P.		.375" S.P.		.500" S.P.		.750" S.P.		1.000" S.P.	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
HC60	405	6362	33770	2.84	30170	2.9	26070	2.94	19320	2.87	10155	3.27	-	-	-	-
	480	7540	40025	4.72	37180	4.8	33695	4.85	30175	4.9	25550	4.88	10765	5.64	4540	6.67
	550	8639	45865	7.11	43465	7.2	40505	7.26	37480	7.32	34370	7.37	19420	7.25	11975	8.56
	610	9582	50865	9.7	48745	9.8	46165	9.88	43455	9.95	40720	10	34505	10.04	18385	10.39
HC72	453	8539	55686	5.28	47552	4.87	38271	5.02	27528	5.36	-	-	-	-	-	-
	519	9783	63799	7.94	56508	7.39	49398	7.41	40308	7.6	30942	8.1	-	-	-	-
	572	10782	70314	10.63	63532	9.94	57585	9.81	49889	10.07	41375	10.33	-	-	-	-

Power rating (BHP) does not include transmission losses. Explosion proof motors and service switches are available when specified.



# HX | PERFORMANCE DATA

## Direct Drive

Model	RPM	Tip Speed FPM	Fan Capacity - CFM													
			0" S.P.		.125" S.P.		.250" S.P.		.375" S.P.		.500" S.P.		.625" S.P.		.750" S.P.	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
HX24W	860	5405	5590	0.45	4240	0.45	1820	0.45	-	-	-	-	-	-	-	-
HX24T	1140	7163	7410	1.04	6645	1.04	5215	1.05	3270	1.08	1770	1.15	-	-	-	-
HX30W	860	6754	8950	0.63	7250	0.65	5625	0.65	3725	0.64	-	-	-	-	-	-
HX30T	1140	8954	11865	1.46	10770	1.5	9050	1.51	8305	1.56	6735	1.5	5400	1.5	-	-
HX36W	860	8105	13920	1.22	12525	1.28	10520	1.3	6615	1.26	1715	1.43	-	-	-	-
HX36T	1140	10744	14860	1.51	13350	1.52	11540	1.6	9310	1.68	5810	1.7	2215	1.79	-	-
HX36Q	1750	16493	20255	4.18	19185	4.26	18025	4.34	16775	4.4	15430	4.44	13990	4.5	12500	4.61
HX42W1	860	9456	23245	3.04	20375	3.12	17980	3.12	14050	3.12	9520	3.24	4770	3.48	-	-
HX42W2	860	9456	19765	1.84	17930	1.99	16155	2.08	14020	2.19	10985	2.22	6270	2.29	2045	2.51
HX42T	1140	12535	27515	4.71	25410	5.04	23035	5.27	20595	5.43	18025	5.5	14955	5.5	10015	5.41

## Belt Drive

Model	RPM	Tip Speed FPM	Fan Capacity - CFM													
			0" S.P.		.125" S.P.		.250" S.P.		.375" S.P.		.500" S.P.		.625" S.P.		.750" S.P.	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
HX24	780	4901	5070	0.33	3400	0.34	970	0.39	-	-	-	-	-	-	-	-
	1025	6440	6665	0.75	5720	0.75	3875	0.84	1915	0.79	525	1.06	-	-	-	-
	1290	8105	8385	1.5	7770	1.5	6695	1.5	5155	1.64	3450	1.53	2150	1.63	1015	1.97
HX30	780	6126	8120	0.47	6015	0.49	4330	0.48	1595	0.54	-	-	-	-	-	-
	980	7697	10200	0.92	8950	0.96	7395	1	5715	0.95	4015	0.95	-	-	-	-
	1235	9700	12855	1.85	11755	1.91	10655	1.92	9455	1.99	8440	1.96	6875	1.9	5650	1.9
HX36	785	7398	12705	0.93	11110	0.98	9140	0.99	2920	1.02	-	-	-	-	-	-
	990	9331	16025	1.86	14875	1.94	13330	1.98	12100	1.98	7475	1.92	2885	2.1	-	-
HX42	670	7367	15400	0.87	13045	0.97	10305	1.04	5270	1.08	-	-	-	-	-	-
	765	8412	17580	1.3	15520	1.42	13405	1.5	10440	1.56	5325	1.62	-	-	-	-
	965	10611	22180	2.6	20545	2.77	18910	2.9	17260	2.99	15210	3.11	12450	3.14	8605	3.22
HX48	545	6849	24425	1.88	19780	1.99	12230	1.89	4740	2.12	-	-	-	-	-	-
	625	7854	28010	2.83	24205	2.96	19640	3.02	11390	2.88	4885	3.25	-	-	-	-
	740	9299	33160	4.7	30110	4.86	26230	5	22045	4.99	14690	4.75	10210	4.9	2050	5.92

Power rating (BHP) does not include transmission losses. Explosion proof motors and service switches are available when specified.

# HF | PERFORMANCE DATA

## Belt Drive

Model	RPM	Tip Speed FPM	Fan Capacity - CFM									
			0" S.P.		.125" S.P.		.250" S.P.		.375" S.P.		.500" S.P.	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
HF24	611	3839	4890	0.3	4075	0.3	2565	0.29	1735	0.33	-	-
	672	4222	5375	0.39	4685	0.4	3190	0.38	2325	0.41	-	-
	750	4712	6000	0.55	5410	0.55	4190	0.52	3155	0.54	2495	0.58
	857	5385	6855	0.82	6320	0.81	5680	0.81	4320	0.78	3550	0.8
	943	5925	7545	1.09	7065	1.08	6555	1.1	5470	1.04	4425	1.04
HF30	440	3456	6640	0.29	4525	0.28	2280	0.31	-	-	-	-
	484	3801	7305	0.39	5655	0.38	2450	0.4	-	-	-	-
	538	4225	8120	0.54	6775	0.54	3815	0.52	2775	0.57	-	-
	615	4830	9280	0.8	8225	0.82	6190	0.76	3530	0.8	3085	0.86
	678	5325	10230	1.08	9335	1.1	7845	1.05	5205	1.02	3325	1.1
	775	6087	11695	1.61	10970	1.64	9860	1.62	8200	1.54	5785	1.53
HF36	370	3487	9445	0.4	6950	0.37	-	-	-	-	-	-
	412	3883	10515	0.55	8265	0.52	3875	0.51	-	-	-	-
	470	4430	11995	0.82	10120	0.78	7570	0.75	3135	0.78	-	-
	520	4901	13270	1.11	11640	1.07	9705	1.02	5585	1.02	-	-
	594	5598	15160	1.65	13815	1.6	12060	1.56	10115	1.51	6090	1.52
	654	6164	16690	2.2	15500	2.15	13980	2.1	12530	2.05	10190	2.02
	750	7069	19140	3.32	18135	3.26	16895	3.2	15505	3.15	14275	3.08
HF42	391	4299	14530	0.81	12940	0.81	7480	0.8	-	-	-	-
	430	4728	15980	1.08	14735	1.09	10485	1.05	5830	1.13	-	-
	492	5410	18285	1.62	17370	1.64	15090	1.57	10210	1.59	-	-
	542	5960	20145	2.17	19355	2.19	17765	2.15	14030	2.09	9765	2.14
	620	6817	23040	3.25	22410	3.28	21370	3.28	19555	3.17	15760	3.13
	735	8082	27315	5.41	26830	5.45	26115	5.47	25090	5.45	23665	5.3
HF48	323	4059	18195	0.81	13475	0.82	-	-	-	-	-	-
	355	4461	20000	1.08	16030	1.09	9080	1.13	-	-	-	-
	407	5115	22930	1.62	19810	1.65	14585	1.65	-	-	-	-
	448	5630	25235	2.16	22595	2.2	18310	2.2	12585	2.24	-	-
	513	6447	28900	3.25	26810	3.3	23500	3.3	19230	3.3	14060	3.37
	608	7640	34250	5.41	32680	5.49	30245	5.49	27235	5.49	23625	5.5
HF54	280	3958	21780	1.03	15715	1.1	-	-	-	-	-	-
	320	4524	24890	1.54	19790	1.64	-	-	-	-	-	-
	353	4990	27455	2.07	22850	2.2	16190	2.13	-	-	-	-
	404	5711	31420	3.1	27635	3.27	23095	3.3	12535	3.06	-	-
	480	6786	37335	5.2	34275	5.43	30515	5.52	26670	5.53	17330	5.23
	549	7761	42700	7.78	40015	8.07	36910	8.22	33770	8.26	30200	8.26
HF60	290	4555	27105	1.6	23545	1.63	15305	1.67	-	-	-	-
	320	5027	29905	2.15	26900	2.19	20570	2.19	12145	2.25	-	-
	366	5749	34205	3.22	31845	3.26	27985	3.3	20685	3.32	13335	3.38
	435	6833	40655	5.4	38755	5.44	36120	5.51	32440	5.54	26065	5.52
	497	7807	46450	8.06	44855	8.08	42835	8.17	40160	8.23	36690	8.25
	547	8592	51120	10.74	49770	10.76	48070	10.86	45790	10.94	43175	10.99

Power rating (BHP) does not include transmission losses. Explosion proof motors and service switches are available when specified.

# HZ | PERFORMANCE DATA

## Direct Drive

Model	RPM	Tip Speed FPM	Fan Capacity - CFM									
			0" S.P.		.125" S.P.		.250" S.P.		.500" S.P.		.750" S.P.	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
HZ24W	860	5404	4900	0.32	4135	0.34	2845	0.34	1235	0.43	-	-
HZ24T2	1140	7226	6305	0.69	5805	0.7	5155	0.72	3205	0.72	2080	0.85
HZ24Q1	1750	10996	7750	1.43	7525	1.46	7200	1.51	6480	1.61	5460	1.65
HZ24Q2	1750	10996	8635	1.87	8475	1.9	8150	1.94	7405	2.02	6290	2.04
HZ30W2	860	6754	7555	0.47	6610	0.51	5420	0.54	2320	0.57	-	-
HZ30W3	860	6754	9120	0.76	8085	0.78	6600	0.79	3215	0.8	1325	1.05
HZ30T2	1140	9032	11205	1.44	10535	1.5	9660	1.54	7770	1.6	6290	1.61
HZ30T3	1140	9032	12640	2.01	11970	2.06	10915	2.07	8650	2.07	6335	2.07
HZ36W1	860	8105	10945	0.73	9625	0.76	8070	0.77	3835	0.79	1345	0.77
HZ36W3	860	8105	14650	1.56	13380	1.58	11865	1.59	7175	1.62	3730	1.87
HZ36T2	1140	10839	15695	2.03	14680	2.11	13600	2.15	11265	2.18	8130	2.15
HZ36T3	1140	10839	18140	2.99	17195	3.04	16130	3.06	13850	3.07	10735	3.07
HZ42W1	860	9456	18130	1.92	16780	2.04	15620	2.14	12565	2.21	8675	2.18
HZ42W2	860	9456	21765	3.1	20535	3.16	19225	3.17	16150	3.25	11830	3.28
HZ42T1	1140	12645	23930	4.59	23275	4.76	22245	4.9	20535	5.18	18425	5.35
HZ48W1	860	10807	31350	5.22	29815	5.3	28195	5.3	24675	5.32	19925	5.43
HZ48W2	860	10807	35325	7.18	33650	7.29	31880	7.36	28135	7.48	23380	7.63
HZ48T2	1140	14451	38320	9.86	37310	9.97	36180	10.06	33935	10.25	31460	10.37
HZ54W1	860	12158	31265	5.18	31200	5.2	30585	5.21	27705	5.24	22695	5.26
HZ54W2	860	12158	41020	7.22	39260	7.31	37330	7.4	33120	7.42	27980	7.54
HZ54W3	860	12158	47035	10.49	45130	10.53	43205	10.6	39890	10.66	36325	10.75
HZ60W1	860	13509	37265	4.51	35235	4.66	33060	4.78	28505	4.91	23240	4.9
HZ60W2	860	13509	45630	7.5	43755	7.59	41675	7.69	36990	7.7	31465	7.7

## Belt Drive

Model	RPM	Tip Speed FPM	Fan Capacity - CFM									
			0" S.P.		.125" S.P.		.250" S.P.		.500" S.P.		.750" S.P.	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
HZ24	999	6277	6015	0.5	5085	0.53	4295	0.53	2200	0.58	-	-
	1258	7904	7570	1	6690	1.04	6185	1.06	4360	1.05	3170	1.13
	1441	9054	8675	1.5	7795	1.56	7370	1.59	6320	1.6	4445	1.58
	1586	9965	9545	2	8665	2.07	8270	2.1	7460	2.14	5760	2.12
HZ30	753	5914	8400	0.5	6870	0.53	5040	0.53	-	-	-	-
	949	7453	10585	1	9200	1.06	7975	1.06	5095	1.07	1310	1.12
	1086	8529	12110	1.5	10775	1.58	9995	1.6	7320	1.6	4655	1.6
	1195	9386	13325	2	12010	2.1	11360	2.12	9025	2.13	6855	2.13
	1368	10744	15255	3	13945	3.14	13310	3.16	11790	3.19	9560	3.19
HZ36	774	7295	13595	1	11270	1.04	9475	1.04	3860	1.11	-	-
	886	8350	15565	1.5	13330	1.55	11865	1.56	7220	1.59	3240	1.8
	975	9189	17130	2	14925	2.07	13650	2.08	10415	2.09	5490	2.17
	1116	10518	19605	3	17405	3.09	16340	3.11	13890	3.12	10485	3.15
	1323	12469	23240	5	20955	5.11	20115	5.17	18200	5.2	16005	5.2

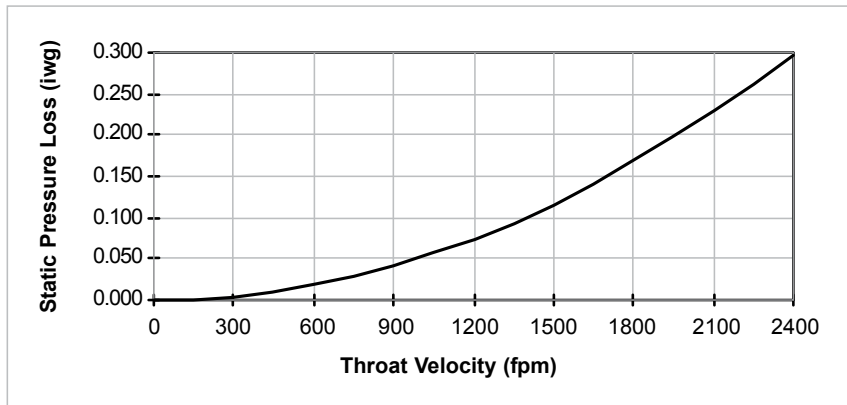
# HZ | PERFORMANCE DATA

Model	RPM	Tip Speed FPM	Fan Capacity - CFM									
			0" S.P.		.125" S.P.		.250" S.P.		.500" S.P.		.750" S.P.	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
HZ42	569	6256	14955	1.02	12955	1.02	10385	1.03	-	-	-	-
	652	7169	17140	1.5	15435	1.53	13415	1.55	7715	1.58	-	-
	717	7884	18850	2	17310	2.03	15580	2.05	10975	2.08	-	-
	821	9027	21580	3	20260	3.04	18820	3.06	15320	3.1	10985	3.15
	973	10699	25575	4.99	24480	5.05	23300	5.08	20695	5.14	17495	5.16
	1114	12249	29285	7.49	28335	7.56	27325	7.61	25170	7.66	22710	7.73
HZ48	568	7138	20710	1.5	18300	1.52	15575	1.53	4210	1.57	-	-
	625	7854	22790	2	20610	2.03	18260	2.04	10810	2.06	-	-
	715	8985	26075	2.99	24185	3.03	22225	3.05	17185	3.06	7790	3.12
	848	10656	30925	4.99	29355	5.06	27700	5.07	24220	5.1	19350	5.12
	971	12202	35410	7.49	34050	7.58	32620	7.59	29700	7.66	26325	7.67
HZ54	559	7903	26675	1.99	23815	2.04	20415	2.06	9300	2.11	-	-
	640	9048	30540	2.99	28065	3.05	25330	3.07	18235	3.16	-	-
	759	10730	36215	4.99	34155	5.06	31980	5.12	26890	5.16	20085	5.28
	869	12285	41465	7.49	39680	7.58	37830	7.65	33695	7.69	28770	7.79
	957	13529	45665	10.01	44065	10.1	42370	10.18	38785	10.29	34640	10.32
HZ60	579	9095	34525	2.99	31335	3.04	27620	3.03	16455	2.94	-	-
	687	10791	40965	5	38350	5.04	35450	5.07	28170	4.97	15390	4.92
	786	12346	46870	7.48	44640	7.51	42135	7.6	36575	7.53	29950	7.38
	866	13603	51640	10.01	49640	10.03	47410	10.14	42590	10.14	36725	9.99
	991	15567	59095	15	57370	15.04	55490	15.09	51480	15.22	47005	15.13
HZ72	381	7182	47904	3.25	38163	2.92	-	-	-	-	-	-
	453	8539	56957	5.47	48799	4.94	39807	4.97	-	-	-	-
	519	9783	65255	8.22	58211	7.53	50851	7.4	-	-	-	-
	572	10782	71919	11	65613	10.18	58985	9.9	43678	10.29	-	-
	656	12365	82481	16.6	77114	15.52	71216	15.02	59034	15.06	-	-

Power rating (BHP) does not include transmission losses. Explosion proof motors and service switches are available when specified.

# HS | PERFORMANCE DATA

## Belt Drive



Model	RPM	Tip Speed FPM	Fan Capacity - CFM										Sones @ 1/8"
			0" S.P.		.125" S.P.		.250" S.P.		.375" S.P.		.500" S.P.		
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
HS24	592	3720	4736	0.27	3847	0.27	2387	0.27	-	-	-	-	14.6
	637	4002	5095	0.33	4319	0.33	2843	0.32	2025	0.36	-	-	16
	733	4606	5864	0.5	5243	0.5	3959	0.48	3000	0.51	2311	0.55	19.2
	843	5297	6744	0.77	6203	0.77	5511	0.77	4169	0.74	3431	0.77	23.2
	904	5680	7232	0.95	6728	0.95	6141	0.95	4933	0.91	4054	0.93	24.2
HS30	658	5168	8050	0.64	6945	0.66	-	-	-	-	-	-	19.6
	756	5938	9249	0.96	8324	1	-	-	-	-	-	-	25
	811	6370	9922	1.19	9081	1.23	7910	1.21	-	-	-	-	28
	932	7320	11402	1.81	10692	1.86	9842	1.87	8179	1.72	-	-	37
	1027	8066	12564	2.42	11920	2.47	11185	2.5	10245	2.48	-	-	41
HS36	445	4223	10997	0.694	8443	0.682	3422	0.596	-	-	-	-	13.6
	512	4859	12653	1.057	10600	1.059	5403	0.823	3148	0.955	-	-	15.8
	549	5210	13567	1.303	11699	1.311	6668	0.999	4317	1.113	2510	1.245	17
	631	5988	15594	1.978	14000	1.992	12007	1.947	6749	1.537	4893	1.695	19.6
	695	6596	17175	2.643	15754	2.664	14101	2.641	9147	2.053	6815	2.113	22
HS42	403	4431	15531	0.98	13180	1.03	-	-	-	-	-	-	12.6
	463	5091	17843	1.48	15885	1.55	13585	1.61	-	-	-	-	16.5
	511	5619	19693	1.99	17944	2.06	15891	2.13	-	-	-	-	19.9
	586	6443	22584	3	21080	3.09	19376	3.16	17558	3.24	-	-	26
	696	7653	26823	5.03	25557	5.13	24240	5.23	22735	5.31	21202	5.4	35
HS48	316	3971	17495	0.77	13377	0.82	5086	0.86	-	-	-	-	12.1
	339	4260	18768	0.94	15093	1.02	8670	1.02	-	-	-	-	13.4
	390	4901	21592	1.44	18655	1.53	14211	1.53	6677	1.61	-	-	16.9
	430	5404	23807	1.93	21327	2.03	17621	2.08	12352	2.05	-	-	20
	493	6195	27295	2.91	25247	3.03	22313	3.12	18902	3.13	13871	3.1	25
	586	7364	32444	4.88	30734	5.03	28716	5.16	26059	5.25	23193	5.26	32
HS54	318	4496	24733	1.51	19580	1.61	-	-	-	-	-	-	21
	351	4962	27300	2.03	22668	2.16	13174	1.99	-	-	-	-	24
	402	5683	31266	3.05	27361	3.22	22864	3.25	-	-	-	-	29
	478	6758	37177	5.13	34095	5.36	30359	5.45	26426	5.46	15857	5.03	36
	548	7747	42622	7.73	39933	8.02	36827	8.18	33643	8.22	30060	8.21	43
	574	8115	44644	8.89	42076	9.2	39192	9.38	36116	9.44	32916	9.47	45

# HS | PERFORMANCE DATA

Model	RPM	Tip Speed FPM	Fan Capacity - CFM										Sones @ 1/8"
			0" S.P.		.125" S.P.		.250" S.P.		.375" S.P.		.500" S.P.		
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
HS60	315	4948	29439	2.05	26331	2.09	19711	2.08	-	-	-	-	23
	361	5671	33738	3.09	31289	3.13	27304	3.17	19787	3.14	-	-	27
	429	6739	40093	5.18	38178	5.22	35404	5.28	31350	5.3	25004	5.26	34
	492	7728	45981	7.82	44368	7.84	42289	7.93	39580	7.99	35657	7.99	41
	542	8514	50654	10.45	49267	10.47	47550	10.57	45208	10.64	42647	10.7	47

Power rating (BHP) does not include transmission losses. Performance certified is for installation type A – Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances. The sound ratings shown are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels. Explosion proof motors and service switches are available when specified.

# PENNBARRY PRODUCT SOLUTIONS



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## Industrial

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Plug & plenum fans  
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