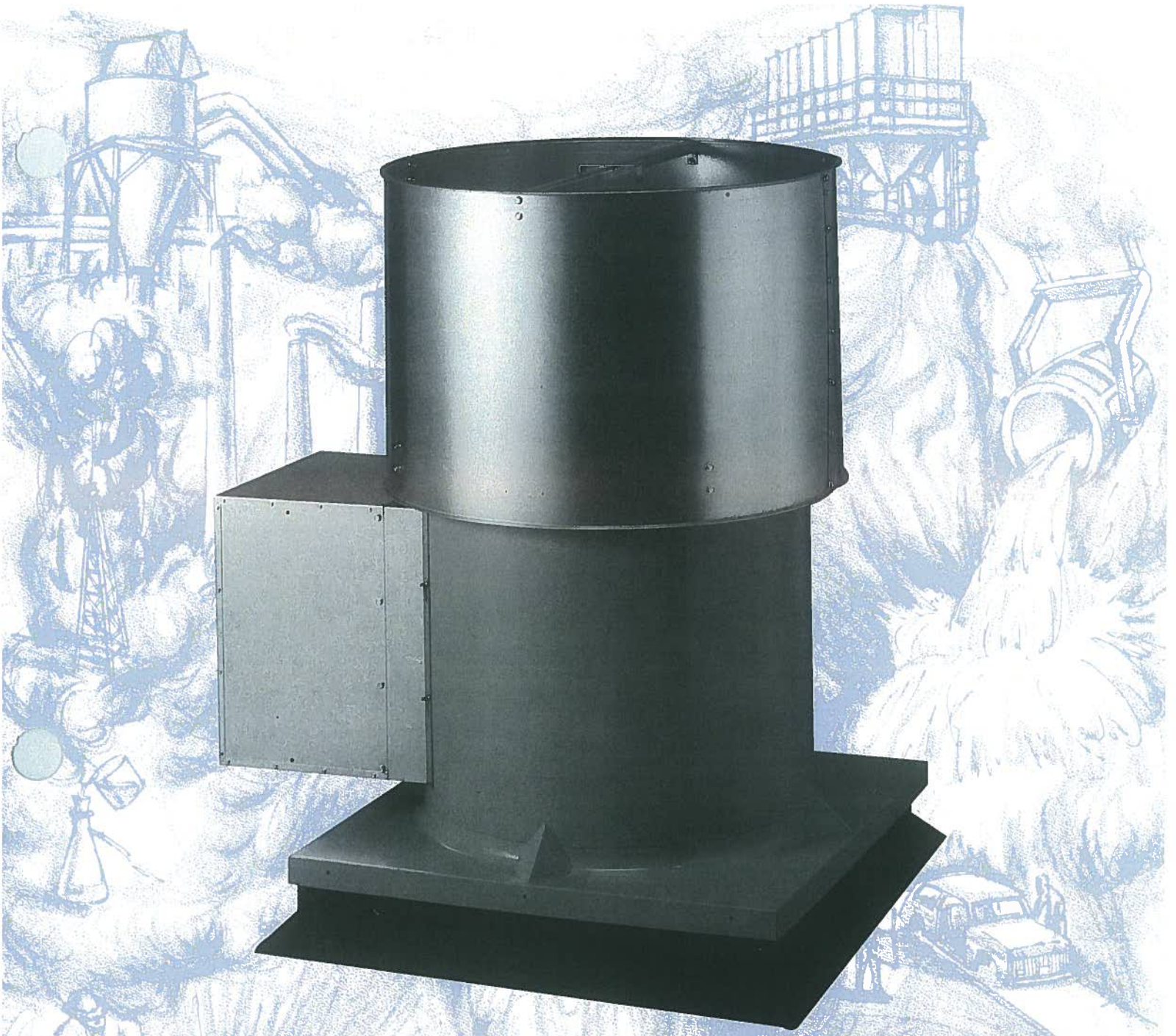


TECHNICAL DATA
TUBE AXIAL UPBLAST ROOF EXHAUSTER

IAP INC.
INDUSTRIAL • AIR • PRODUCTS
P.O. BOX 56
PHILLIPS, WI 54555
715/339-3024

MODEL TAUBI

Tube Axial Upblast Roof Exhausters - Belt Drive

IAP belt drive tube axial upblast roof exhausters, Models TAUBI-L and TAUBI-H, are designed to efficiently remove and disperse contaminated air. Model TAUBI-L is designed for low pressure applications, Model TAUBI-H for high pressure applications.

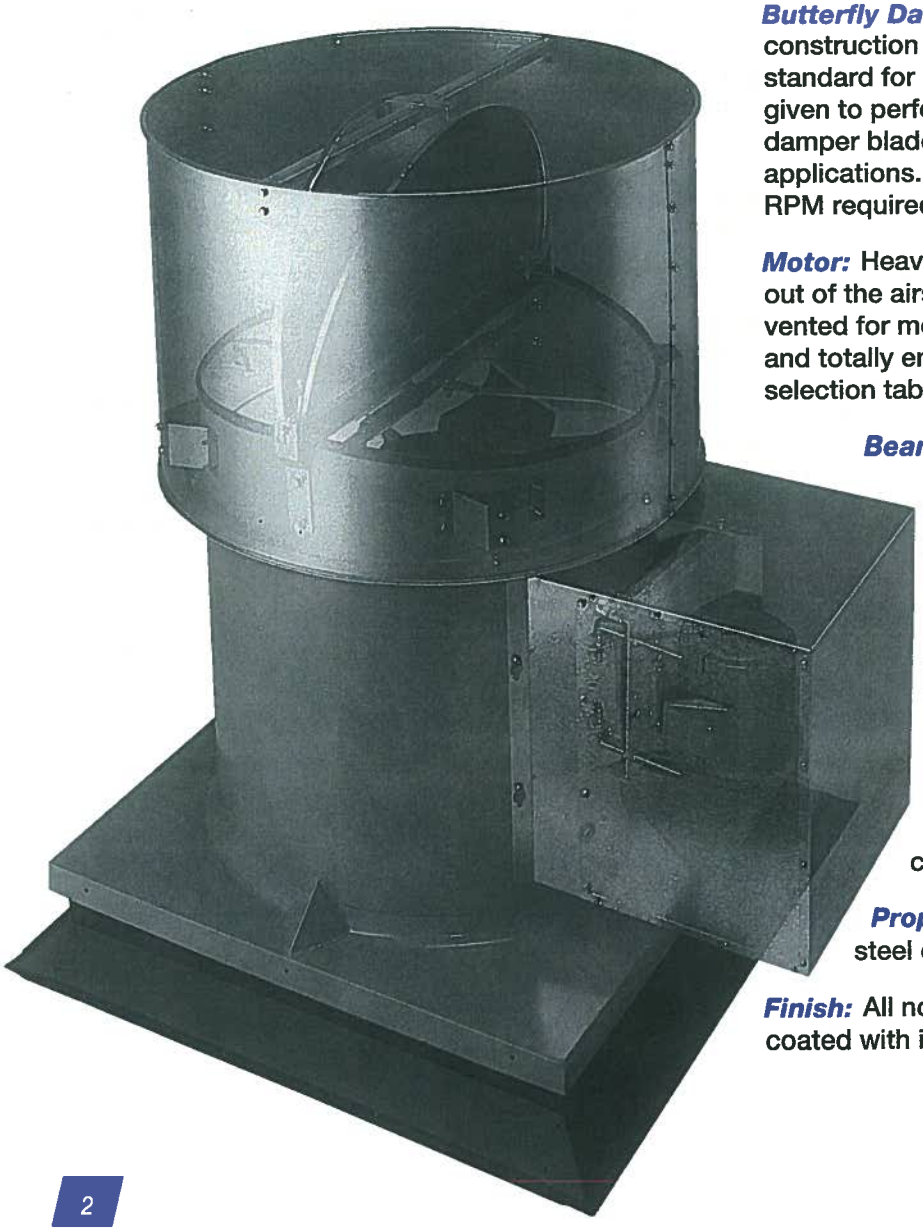
The upblast configuration is ideal for exhausting contaminants away from the building to prevent roof damage and recirculation of exhaust air. With the selection of the appropriate high temperature option, the TAUBI-L and TAUBI-H can also exhaust heat and smoke for either emergency situations or for continuous operation.

IAP Inc. certifies that the TAUBI-L and TAUBI-H fans shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

STANDARD CONSTRUCTION

NORMAL OPERATION

- ***for* Temperatures up to 200°F**



Housing: Windband, motor cover and bearing cover are heavy gauge galvanized steel. All other housing components are heavy gauge painted steel.

Butterfly Dampers: Standard damper blade construction in sizes 24-30 is aluminum. Steel is standard for sizes 36-60. Special attention must be given to performance selections when specifying steel damper blades on sizes 24, 30 and in two speed applications. See each performance page for minimum RPM required to open damper blades.

Motor: Heavy duty ball bearing motors are mounted out of the airstream. Weatherproof motor covers are vented for motor cooling. Motors are available in open and totally enclosed frames. See page 4. for motor selection table.

Bearings: Heavy duty, pillow block ball bearings are designed specifically for air handling applications with a minimum (L-50) life in excess of 200,000 hours.

Sheaves: Cast iron sheaves are sized for a minimum of 150% of driven horsepower.

Sizes 24-42 have variable pitch sheaves, sizes 48-54 have fixed pitch sheaves.

Drive Enclosure: Protects drive components from heat and airstream contaminants.

Propeller: Die formed, heavy gauge welded steel construction.

Finish: All non-galvanized steel components are coated with industrial grade baked enamel.

OPTIONAL CONSTRUCTION
for HIGH TEMPERATURE OPERATION

Tests were conducted at research and design facilities using a 3.3 million BTU gas fired burner capable of generating airstream temperatures in excess of 1000°F. Temperatures were monitored at the following critical locations throughout the tests: bearings, bearing compartment, belt tube, motor, motor compartment, airstream and fan housing. The following High Temperature Options and their construction are a result of this extensive testing.

CONTINUOUS HI-TEMP OPERATION

• HT Option I - 200°F-500°F

The Model TAUBI can be built to operate at up to 500°F continuously for applications where exhaust temperatures exceed 200°F. Unlike the emergency smoke removal exhaust fans, this fan does not have fusible link damper lifters. Continuous high temperatures would trip the fusible links, holding the butterfly dampers open continuously.

EMERGENCY SMOKE REMOVAL*

To remove smoke in the event of a fire, two levels of emergency smoke removal exhausters are available. As indicated in the chart below, the following options all contain fusible link damper lifters. These fusible links melt at 165°F and allow the spring loaded damper lifters to open the dampers. This allows the fan to serve as a gravity exhaust vent in the event that the power supply to the fan is cut off. Although the TAUBI fan may be built with one of the following emergency smoke removal exhaust options, it will still perform the everyday general ventilation requirements.

• HT Option II - 500°F for a minimum of 4 hours

This construction meets specifications requiring the fan to exhaust 500°F air for a minimum of 4 hours in an emergency smoke removal situation per IRI requirements.

• HT Option III - 1000°F for a minimum of 15 minutes

This construction meets specifications requiring the fan to exhaust 1000°F air for a minimum of 15 minutes in an emergency smoke removal situation per SBCCI "Standard Fire Prevention Code". This construction also meets (and exceeds) IRI requirements for 500°F for a minimum of 4 hours.

**Note: Even though some parts of the fan may be destroyed when subjected to extreme high temperatures caused by a fire, the emergency smoke removal exhaust fan has been designed to operate effectively for the temperature and minimum time limits stated as long a power to the fan is not terminated.*

The chart below details the special construction features for high temperature operation. These special construction features are in addition to the standard construction features shown on page 2.

High Temperature Construction Features	High Temperature Options		
	HT Option I	HT Option II	HT Option III
165° Fusible Link Damper Lifters		✓	✓
Vented Belt and Bearing Tube	✓	✓	✓
Insulated Bearing Plate, Bearing Cover and Belt Tube			✓
**Steel Damper Blades	✓	✓	✓
Dual Drives	✓	✓	✓
High Temperature Bearings			✓
Copper Lubrication Lines	✓		
High Temp Aluminum Paint	✓		
Heat Slinger	✓		

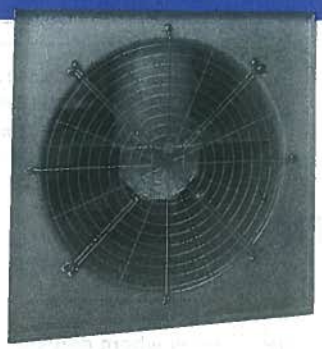
** *All fans with high temperature options have steel damper blades. Special attention must be given to the fan selection to make sure that the dampers will open based on performance. See each performance page for the minimum RPM required to open the dampers.*

OPTIONS

GUARDS

INLET GUARDS

Protective guards mounted to the fan inlet, are necessary to protect the fan and nearby personnel. ***Where an inlet guard is not ordered with the fan, it should be provided by the installer.***



OUTLET SCREENS

Outlet screens constructed of steel mesh are available to shield dampers and fan discharge from debris.

BUTTERFLY DAMPER OPTIONS

ALUMINUM OR STEEL DAMPER BLADES

Damper blades are available in either aluminum or steel construction. See page 2 for standard construction. When specifying damper blade material, special attention must be given to the minimum RPM required to open the damper blades. This minimum RPM is shown on each performance page.

FUSIBLE LINK DAMPER LIFTERS

Fusible link damper lifters are available to automatically open the butterfly dampers when the air temperature below the damper blades exceeds 165°F. Fusible links for higher temperatures are also available. The damper blades are held open to provide smoke and heat relief with no electrical power required. Fusible link damper lifters are standard with the high temperature option. When the 500°F continuous high temperature option is selected, fusible link damper lifters are not available.

MAGNETIC DAMPER LATCHES

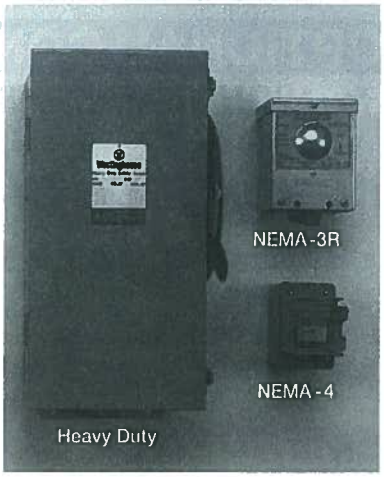
Magnetic damper latches are available to minimize damper flutter (due to pressure changes within the building) when the fan is not in operation.

FINISHES

A variety of special coatings are available for decorative or protective purposes. Consult your local representative or the factory for more details.

DISCONNECT SWITCHES

Disconnect switches, exterior mounted in NEMA rated weatherproof boxes, are available for positive electrical shut-off and safety in servicing fans. NEMA-3R or NEMA-4 switches are available in either toggle switch or heavy duty configurations to meet individual specifications. Extended wiring pigtails are also available (specify to internal or external power source).



ACCESS DOORS

Access doors for inspection of fan components are available in two designs; either bolted, or hinged with quick release latches.

SHAFT SEAL

A shaft seal with aluminum rub ring is available to protect the bearings from contaminants. The shaft seal attaches to the discharge end of the bearing cover. (The shaft seal is not gas tight.) Shaft seals are not available on fans selected with the high temperature options.

ACCESSORIES

ROOF CURBS

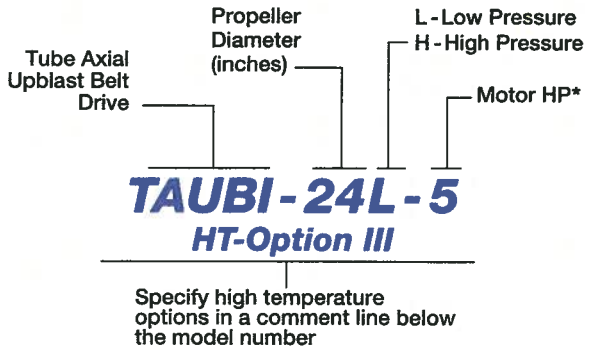
A complete line of prefabricated roof curbs is available for mounting Model TAUBI fans. See the IAP Curb Catalog.

DRIP PANS

Drip pans are available for field installation below the fan to collect moisture that may accumulate due to internal condensation buildup on the fan housing. The drip pans are 4" larger than the recommended roof opening and have 1" forms to hold the collected moisture until it evaporates.

Model Number Code

The model number code is designed to completely describe the fan. The correct code letters and numbers must be specified to identify fan size, propeller type and fan horsepower.



*Motor HP

4 = 1/4 HP	10 = 1 HP	75 = 7 1/2 HP
3 = 1/3 HP	15 = 1 1/2 HP	100 = 10 HP
5 = 1/2 HP	20 = 2 HP	150 = 15 HP
7 = 3/4 HP	30 = 3 HP	200 = 20 HP
	50 = 5 HP	

Motor Selection

Motor frame size, enclosure type and fan size limit the available standard motor selections. The accompanying chart shows the motors available with a given fan size.

Model TAUBI-L/H	HP	Open			TE	
		115v 1 PH	208v or 230v 1 PH	3 PH	115v 208v 230v 1 PH	3 PH
24	1/2	+	+	+	+	+
24-30	3/4	+	+	+	+	+
24-42	1 1/2	+	+	+	+	+
24-54	2	+	+	+	+	+
24-60	3	+	+	+	+	+
30-60	5		+	+	+	+
42-60	7 1/2			+		+
42-60	10			+		+
54-60	15			+		+
60	20			+		+

** 1 speed, 3 PH motors are available in 208, 230/460 or 575 volts.*

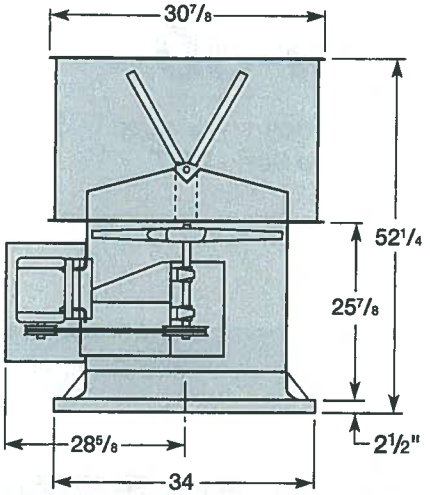
Note: Two speed motor selections are not shown in the chart. This is because special attention must be given to the low speed RPM of the fan. If the speed on low speed is too low, the butterfly dampers will not open. For available two speed motor selections, contact your local IAP representative for assistance.

For explosion resistant applications, refer to the TAUDI/TAUBI catalog.

IAP INC.

TAUBI-24

Max RPM - L = 1085 H = 1935
Max Motor Frame Size - 184T



Shaft Dia.	Approx. Fan Weight (lbs)	Recommended Roof Opening
1	300	26½ x 26½

Material Gauges		
Fan Tube	Windband	Curb Cap
12	20	16

Minimum RPM required to open butterfly dampers:
Aluminum: 690
Galvanized: 1000

TAUBI-24L (Low Pressure)

HP	RPM	TS	MAX BHP	Sones @ F.A.	dBA @ F.A.	CFM / STATIC PRESSURE IN INCHES W.G.							
						0.000 CFM	0.050 CFM	0.100 CFM	0.125 CFM	0.150 CFM	0.200 CFM	0.250 CFM	0.375 CFM
1/2	830	5215	0.47	16.4	63	5229	4932	4586	4378	4068			
	845	5309	0.50	17.0	64	5324	5034	4697	4494	4226			
	860	5403	0.52	17.6	64	5418	5133	4804	4610	4384			
3/4	895	5623	0.59	19.1	66	5639	5365	5053	4877	4685			
	915	5749	0.63	20	67	5765	5497	5194	5029	4841	4189		
	935	5874	0.67	21	67	5891	5629	5334	5180	4995	4446		
	960	6031	0.73	22	69	6048	5793	5509	5361	5187	4714		
	985	6188	0.79	24	70	6206	5957	5683	5538	5378	4978		
1	1000	6283	0.82	25	70	6301	6056	5787	5645	5491	5134		
	1020	6408	0.87	26	71	6427	6186	5925	5786	5642	5304	4629	
	1040	6534	0.92	26	71	6553	6317	6063	5926	5789	5461	4913	
	1060	6660	0.98	27	72	6679	6447	6200	6066	5932	5616	5128	
	1085	6817	1.05	27	72	6836	6610	6372	6241	6109	5809	5394	

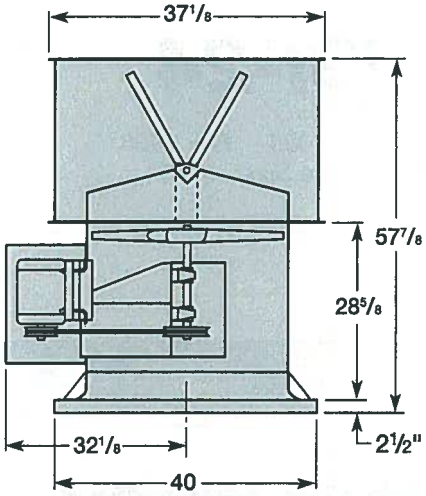
TAUBI-24H (High Pressure)

HP	RPM	TS	MAX BHP	Sones @ F.A.	dBA @ F.A.	CFM / STATIC PRESSURE IN INCHES W.G.							
						0.000 CFM	0.125 CFM	0.250 CFM	0.375 CFM	0.500 CFM	0.625 CFM	0.750 CFM	1.000 CFM
3/4	1120	7037	0.61	23	74	5670	5110	4535	3822				
	1170	7351	0.70	24	75	5923	5383	4841	4210				
	1220	7665	0.79	24	75	6176	5655	5142	4588				
1	1280	8042	0.91	25	76	6480	5978	5499	4983	4309			
	1340	8419	1.04	27	77	6784	6299	5851	5359	4777			
1½	1435	9016	1.28	30	79	7265	6805	6401	5941	5481	4849		
	1535	9644	1.57	34	81	7771	7334	6959	6541	6111	5622		
2	1585	9958	1.73	37	82	8024	7601	7233	6837	6421	5998	5414	
	1640	10304	1.91	39	83	8303	7893	7534	7159	6757	6355	5841	
	1690	10618	2.09	39	83	8556	8159	7806	7450	7060	6669	6223	
3	1770	11121	2.41	42	84	8961	8582	8238	7911	7538	7166	6793	
	1850	11623	2.75	45	86	9366	9003	8668	8357	8011	7654	7298	6407
	1935	12157	3.14	48	87	9796	9449	9122	8825	8508	8166	7825	7061

Performance shown is for Model TAUBI-L and TAUBI-H without ducts. BHP does not include belt and pulley losses.
The sound ratings shown 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 sone levels. The AMCA Certified Ratings Sound Seal applies to sone ratings only.

TAUBI-30

Max RPM - L = 1090 H = 1635
Max Motor Frame Size - 213T



Shaft Dia.	Approx. Fan Weight (lbs)	Recommended Roof Opening
1¼	395	32½ x 32½

Material Gauges		
Fan Tube	Windband	Curb Cap
12	20	16

Minimum RPM required to open butterfly dampers:
Aluminum: 540
Galvanized: 645

TAUBI-30L (Low Pressure)

HP	RPM	TS	MAX BHP	Sones @ F.A.	dBA @ F.A.	CFM / STATIC PRESSURE IN INCHES W.G.							
						0.000 CFM	0.050 CFM	0.100 CFM	0.125 CFM	0.150 CFM	0.200 CFM	0.250 CFM	0.375 CFM
3/4	645	5065	0.65	15.8	64	8200	7690	7115	6783				
	690	5419	0.79	17.7	66	8772	8301	7784	7481	7170			
1	720	5654	0.90	18.7	67	9154	8705	8210	7938	7640			
	755	5929	1.04	20	68	9599	9171	8704	8465	8181	7461		
1½	795	6243	1.21	22	69	10107	9701	9262	9038	8791	8252		
	830	6518	1.38	23	70	10552	10163	9747	9533	9317	8801		
	865	6793	1.56	25	71	10997	10624	10230	10023	9817	9343	8779	
2	905	7107	1.78	27	72	11506	11149	10777	10580	10383	9954	9480	
	930	7304	1.94	28	73	11824	11476	11118	10926	10734	10332	9871	
	955	7500	2.10	30	73	12142	11803	11458	11271	11084	10708	10259	
3	1000	7853	2.41	32	75	12714	12391	12066	11888	11710	11353	10949	
	1045	8207	2.75	36	76	13286	12977	12667	12501	12331	11989	11631	10451
	1090	8560	3.12	39	78	13858	13562	13265	13112	12948	12621	12294	11321

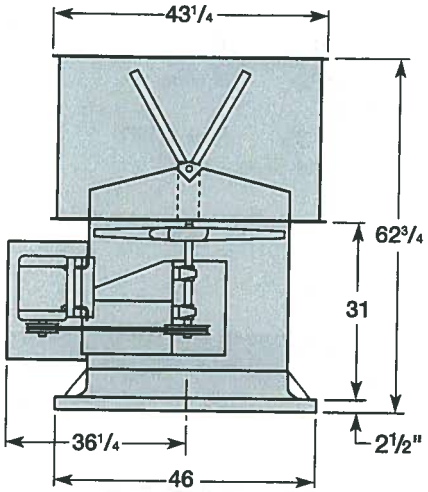
TAUBI-30H (High Pressure)

HP	RPM	TS	MAX BHP	Sones @ F.A.	dBA @ F.A.	CFM / STATIC PRESSURE IN INCHES W.G.							
						0.000 CFM	0.125 CFM	0.250 CFM	0.375 CFM	0.500 CFM	0.625 CFM	0.750 CFM	1.000 CFM
3/4	800	6283	0.61	20	72	7918	6962	5792					
	870	6832	0.78	23	74	8611	7742	6737	5124				
1	910	7147	0.90	25	75	9007	8181	7242	6047				
	955	7500	1.05	27	77	9452	8670	7800	6727				
1½	1025	8050	1.29	30	79	10145	9424	8635	7731	6397			
	1095	8600	1.58	33	80	10838	10171	9435	8624	7652			
2	1150	9032	1.83	34	81	11382	10754	10055	9311	8465	7245		
	1205	9464	2.10	35	82	11927	11333	10668	9986	9203	8265		
3	1290	10131	2.58	38	83	12768	12220	11603	10973	10280	9526	8598	
	1380	10838	3.15	42	84	13659	13147	12580	11995	11392	10708	9950	
5	1465	11506	3.76	47	86	14500	14018	13494	12946	12389	11777	11133	9405
	1550	12173	4.47	54	88	15341	14885	14400	13884	13359	12824	12215	10843
	1635	12841	5.24	62	89	16183	15750	15299	14811	14317	13818	13275	12097

Performance shown is for Model TAUBI-L and TAUBI-H without ducts. BHP does not include belt and pulley losses.
The sound ratings shown 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 sone levels. The AMCA Certified Ratings Sound Seal applies to sone ratings only.

TAUBI-36

Max RPM - L = 790 H = 1275
Max Motor Frame Size - 215T



Shaft Dia.	Approx. Fan Weight (lbs)	Recommended Roof Opening
1½	530	38½ x 38½

Material Gauges		
Fan Tube	Windband	Curb Cap
12	18	16

Minimum RPM required to open butterfly dampers:
Aluminum: 465
Galvanized: 570

TAUBI-36L (Low Pressure)

HP	RPM	TS	MAX BHP	Sones @ F.A.	dBA @ F.A.	CFM / STATIC PRESSURE IN INCHES W.G.							
						0.000 CFM	0.050 CFM	0.100 CFM	0.125 CFM	0.150 CFM	0.200 CFM	0.250 CFM	0.375 CFM
1	525	4948	0.93	15.2	64	12231	11414	10615	10169				
	545	5136	1.04	15.8	65	12697	11909	11138	10756	10232			
1½	570	5372	1.19	16.7	65	13280	12525	11786	11420	10987			
	590	5560	1.32	17.4	66	13746	13015	12300	11947	11583			
	605	5701	1.42	17.9	67	14095	13383	12684	12339	11995	11052		
	625	5890	1.56	18.8	67	14561	13872	13194	12859	12526	11683		
2	655	6173	1.80	19.9	68	15260	14602	13954	13633	13315	12591		
	675	6361	1.97	21	68	15726	15088	14458	14145	13836	13189	12303	
	690	6503	2.11	21	69	16076	15451	14834	14528	14225	13622	12793	
3	720	6785	2.39	23	69	16775	16176	15584	15290	14998	14419	13707	
	745	7021	2.65	24	70	17357	16779	16205	15921	15638	15078	14457	
	765	7209	2.87	25	71	17823	17260	16700	16424	16148	15601	15052	
	790	7445	3.16	27	71	18406	17860	17317	17049	16782	16251	15724	

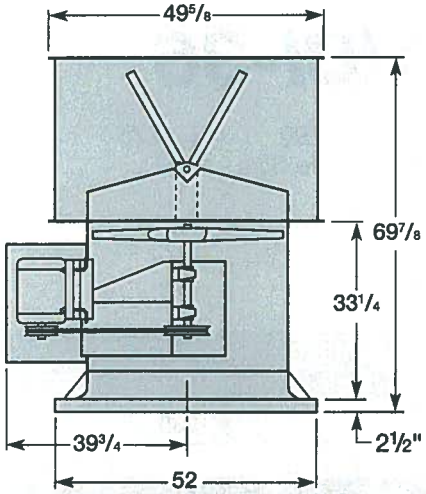
TAUBI-36H (High Pressure)

HP	RPM	TS	MAX BHP	Sones @ F.A.	dBA @ F.A.	CFM / STATIC PRESSURE IN INCHES W.G.							
						0.000 CFM	0.125 CFM	0.250 CFM	0.375 CFM	0.500 CFM	0.625 CFM	0.750 CFM	1.000 CFM
1	675	6361	0.77	21	72	10993	9732	7998					
	745	7021	1.04	24	74	12133	11019	9601	7515				
1½	800	7539	1.29	27	76	13028	11995	10779	9140				
	855	8058	1.57	30	78	13924	12962	11867	10478	8510			
2	905	8529	1.86	32	80	14738	13833	12825	11597	10081			
	940	8859	2.09	34	81	15308	14440	13488	12354	10955			
3	985	9283	2.40	37	82	16041	15216	14332	13311	12045	10437		
	1030	9707	2.75	40	83	16774	15988	15161	14202	13063	11731		
	1075	10131	3.12	44	85	17507	16756	15965	15070	14041	12834	11307	
5	1125	10602	3.58	48	86	18321	17603	16851	16023	15109	14020	12769	
	1175	11074	4.08	52	87	19136	18448	17732	16966	16120	15116	13996	
	1225	11545	4.62	55	88	19950	19291	18608	17900	17088	16194	15194	12540
	1275	12016	5.20	59	89	20764	20131	19479	18810	18046	17256	16295	14107

Performance shown is for Model TAUBI-L and TAUBI-H without ducts. BHP does not include belt and pulley losses.
The sound ratings shown 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 sone levels. The AMCA Certified Ratings Sound Seal applies to sone ratings only.

TAUBI-42

Max RPM - L = 735 H = 1030
Max Motor Frame Size - 215T



Shaft Dia.	Approx. Fan Weight (lbs)	Recommended Roof Opening
1½	715	44½ x 44½

Material Gauges		
Fan Tube	Windband	Curb Cap
10	18	14

Minimum RPM required to open butterfly dampers:
Aluminum: 390
Galvanized: 500

TAUBI-42L (Low Pressure)

HP	RPM	TS	MAX BHP	Sones @ F.A.	dBA @ F.A.	CFM / STATIC PRESSURE IN INCHES W.G.							
						0.000 CFM	0.050 CFM	0.100 CFM	0.125 CFM	0.150 CFM	0.200 CFM	0.250 CFM	0.375 CFM
1½	460	5057	1.29	14.6	63	17129	16169	15017	14337	13655			
	495	5442	1.59	16.4	65	18432	17552	16542	15927	15295			
2	510	5607	1.76	17.2	65	18991	18137	17165	16598	15985	14755		
	525	5772	1.92	18.0	66	19550	18720	17784	17264	16669	15474		
	540	5937	2.08	18.9	67	20108	19301	18401	17925	17346	16186		
3	565	6212	2.40	20	68	21039	20268	19422	18975	18464	17356	16245	
	590	6487	2.72	22	69	21970	21232	20436	20008	19569	18509	17445	
	620	6817	3.14	24	71	23087	22384	21645	21238	20831	19871	18860	
5	640	7037	3.44	25	71	23832	23151	22446	22052	21658	20768	19790	
	665	7312	3.86	27	72	24763	24108	23444	23065	22685	21879	20938	
	690	7586	4.37	28	73	25694	25062	24431	24072	23706	22975	22073	19800
	715	7861	4.84	30	74	26625	26015	25406	25074	24721	24016	23195	21004
	735	8081	5.24	32	74	27370	26777	26184	25873	25530	24843	24085	21955

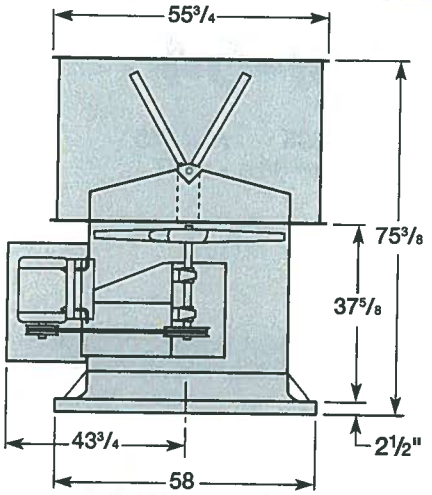
TAUBI-42H (High Pressure)

HP	RPM	TS	MAX BHP	Sones @ F.A.	dBA @ F.A.	CFM / STATIC PRESSURE IN INCHES W.G.							
						0.000 CFM	0.125 CFM	0.250 CFM	0.375 CFM	0.500 CFM	0.625 CFM	0.750 CFM	1.000 CFM
1	505	5552	0.92	17.7	69	14272	12245	9526					
	525	5772	1.04	18.7	70	14838	12914	10422					
1½	565	6212	1.28	21	72	15968	14216	12062					
	605	6652	1.58	23	74	17099	15478	13532	11021				
2	635	6982	1.83	25	75	17946	16414	14605	12409				
	665	7312	2.11	27	77	18794	17343	15645	13730	11012			
3	695	7641	2.39	29	78	19642	18265	16669	14886	12545			
	760	8356	3.14	33	80	21479	20244	18846	17260	15510	13161		
5	830	9126	4.10	38	82	23458	22329	21085	19694	18204	16474	14288	
	900	9896	5.22	44	84	25436	24396	23275	22058	20724	19320	17637	
7½	940	10335	5.95	47	85	26567	25570	24512	23386	22109	20793	19397	15550
	985	10830	6.82	51	86	27838	26888	25895	24827	23646	22421	21131	17848
	1030	11325	7.83	55	88	29110	28201	27270	26248	25161	23996	22788	19954

Performance shown is for Model TAUBI-L and TAUBI-H without ducts. BHP does not include belt and pulley losses.
The sound ratings shown 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 sone levels. The AMCA Certified Ratings Sound Seal applies to sone ratings only.

TAUBI-48

Max RPM - L = 645 H = 905
Max Motor Frame Size - 254T



Shaft Dia.	Approx. Fan Weight (lbs)	Recommended Roof Opening
1½	920	50½ x 50½

Material Gauges		
Fan Tube	Windband	Curb Cap
10	18	14

Minimum RPM required to open butterfly dampers:
Aluminum: 320
Galvanized: 450

TAUBI-48L (Low Pressure)

HP	RPM	TS	MAX BHP	Sones @ F.A.	dBA @ F.A.	CFM / STATIC PRESSURE IN INCHES W.G.							
						0.000 CFM	0.050 CFM	0.100 CFM	0.125 CFM	0.150 CFM	0.200 CFM	0.250 CFM	0.375 CFM
1½	355	4461	1.29	15.2	64	20588	19103	17428	16453				
	380	4775	1.59	16.4	65	22038	20665	19168	18276	17365			
2	400	5026	1.85	17.9	66	23198	21894	20484	19705	18840			
	415	5215	2.07	19.2	67	24067	22811	21462	20762	19929			
3	450	5654	2.63	22	69	26097	24939	23717	23084	22420	20882		
	475	5969	3.10	26	71	27547	26449	25309	24709	24110	22708		
5	500	6283	3.61	27	72	28997	27954	26887	26318	25748	24501	23117	
	530	6660	4.30	29	73	30737	29753	28766	28229	27691	26616	25311	
	565	7099	5.21	33	76	32767	31844	30921	30437	29933	28924	27818	
7½	585	7351	5.78	34	77	33927	33035	32144	31690	31203	30229	29229	
	605	7602	6.40	35	77	35086	34225	33363	32932	32466	31524	30583	27767
	625	7853	7.06	36	78	36246	35412	34578	34161	33723	32812	31900	29243
	645	8105	7.76	37	78	37406	36598	35789	35385	34974	34091	33208	30702

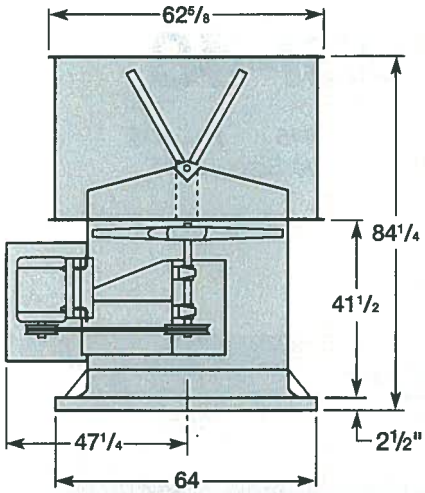
TAUBI-48H (High Pressure)

HP	RPM	TS	MAX BHP	Sones @ F.A.	dBA @ F.A.	CFM / STATIC PRESSURE IN INCHES W.G.							
						0.000 CFM	0.125 CFM	0.250 CFM	0.375 CFM	0.500 CFM	0.625 CFM	0.750 CFM	1.000 CFM
1½	450	5654	1.29	23	72	19561	17102	13778					
	485	6094	1.59	25	73	21082	18907	16002					
2	505	6346	1.84	26	74	21952	19905	17128	13827				
	525	6597	2.06	27	75	22821	20855	18236	15165				
3	565	7099	2.53	30	77	24560	22740	20408	17772				
	605	7602	3.15	33	78	26299	24605	22540	20221	17431			
5	660	8293	4.11	39	81	28690	27146	25409	23266	21009	18394		
	715	8984	5.24	45	83	31081	29664	28189	26227	24269	22013	19611	
7½	765	9613	6.34	49	85	33254	31938	30559	28869	27023	25197	22925	
	820	10304	7.70	54	87	35645	34426	33140	31721	29985	28277	26474	
10	845	10618	8.61	57	88	36732	35551	34305	33001	31316	29651	27998	23946
	875	10995	9.50	61	89	38036	36896	35697	34492	32898	31281	29684	25927
	905	11372	10.45	65	90	39340	38238	37083	35918	34465	32892	31348	27882

Performance shown is for Model TAUBI-L and TAUBI-H without ducts. BHP does not include belt and pulley losses.
The sound ratings shown 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 sone levels. The AMCA Certified Ratings Sound Seal applies to sone ratings only.

TAUBI-54

Max RPM - L = 595 H = 845
Max Motor Frame Size - 256T



Shaft Dia.	Approx. Fan Weight (lbs)	Recommended Roof Opening
1¾	1250	56½ x 56½

Material Gauges		
Fan Tube	Windband	Curb Cap
10	18	14

Minimum RPM required to open butterfly dampers:
Aluminum: 310
Galvanized: 415

TAUBI-54L (Low Pressure)

HP	RPM	TS	MAX BHP	Sones @ F.A.	dBA @ F.A.	CFM / STATIC PRESSURE IN INCHES W.G.							
						0.000 CFM	0.050 CFM	0.100 CFM	0.125 CFM	0.150 CFM	0.200 CFM	0.250 CFM	0.375 CFM
2	335	4735	1.85	19.3	68	27858	25900	23605	22274				
	350	4948	2.11	20	69	29105	27257	25072	23922	22502			
3	380	5372	2.71	23	71	31600	29947	27960	26927	25833			
	400	5654	3.16	25	72	33264	31707	29845	28874	27894	25514		
5	420	5937	3.65	29	74	34927	33444	31705	30797	29863	27760		
	445	6291	4.35	35	75	37006	35607	34007	33161	32289	30507		
	470	6644	5.12	42	77	39085	37760	36287	35486	34681	33012	31084	
7½	490	6927	5.80	44	78	40748	39477	38098	37330	36562	34973	33288	
	515	7280	6.74	45	80	42827	41618	40348	39617	38887	37395	35872	
	540	7634	7.77	47	81	44906	43753	42583	41887	41190	39789	38336	
10	555	7846	8043	48	82	46153	45031	43910	43241	42563	41208	39799	35760
	575	8128	9.38	50	83	47817	46734	45651	45039	44385	43077	41733	38000
	595	8411	10.39	53	83	49480	48433	47387	46830	46198	44933	43652	40208

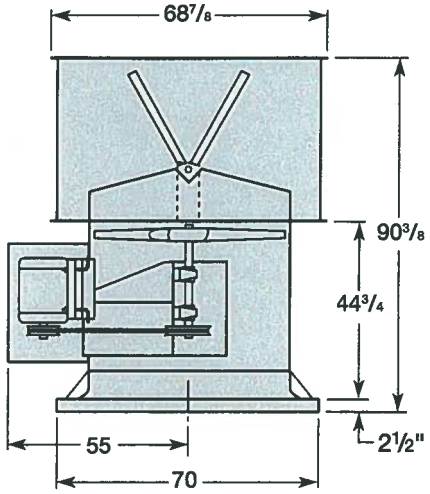
TAUBI-54H (High Pressure)

HP	RPM	TS	MAX BHP	Sones @ F.A.	dBA @ F.A.	CFM / STATIC PRESSURE IN INCHES W.G.							
						0.000 CFM	0.125 CFM	0.250 CFM	0.375 CFM	0.500 CFM	0.625 CFM	0.750 CFM	1.000 CFM
3	400	5654	1.67	22	71	25557	22388	18005					
	445	6291	2.29	25	74	28432	25656	22027	16986				
	490	6927	3.07	29	76	31307	28776	25788	22062				
5	515	7280	3.56	31	78	32905	30490	27807	24338	19785			
	550	7775	4.34	35	80	35141	32872	30479	27409	23913			
	585	8270	5.22	40	81	37377	35236	33106	30341	27239	23475		
7½	625	8835	6.38	45	83	39933	37920	35980	33606	30774	27736	23380	
	670	9471	7.84	51	85	42808	40921	39111	37056	34580	31878	28928	
10	700	9896	8.96	55	86	44725	42919	41179	39316	37045	34514	31873	
	735	10390	10.34	61	88	46961	45241	43576	41922	39839	37490	35014	28965
15	770	10885	11.90	65	89	49197	47556	45959	44384	42512	40386	38085	33038
	805	11380	13.64	69	90	51434	49863	48328	46822	45151	43234	41056	36501
	845	11945	15.71	75	91	53989	52493	51021	49586	48133	46321	44364	40101

Performance shown is for Model TAUBI-L and TAUBI-H without ducts. BHP does not include belt and pulley losses.
The sound ratings shown 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 sone levels. The AMCA Certified Ratings Sound Seal applies to sone ratings only.

TAUBI-60

Max RPM - L = 515 H = 815
Max Motor Frame Size - 284T



Shaft Dia.	Approx. Fan Weight (lbs)	Recommended Roof Opening
2	1475	62½ x 62½

Material Gauges		
Fan Tube	Windband	Curb Cap
10	18	14

Minimum RPM required to open butterfly dampers:
Aluminum: 280
Galvanized: 385

TAUBI-60L (Low Pressure)

HP	RPM	TS	MAX BHP	Sones @ F.A.	dBA @ F.A.	CFM / STATIC PRESSURE IN INCHES W.G.							
						0.000 CFM	0.050 CFM	0.100 CFM	0.125 CFM	0.150 CFM	0.200 CFM	0.250 CFM	0.375 CFM
3	315	4948	2.39	19.7	69	32132	29408						
	325	5105	2.63	21	70	33152	30528						
	345	5419	3.15	22	71	35192	32754	29689					
5	365	5733	3.73	25	73	37232	34961	32138					
	380	5969	4.20	26	74	38763	36607	33951	32485				
	395	6204	4.72	28	75	40293	38244	35746	34335				
	410	6440	5.28	29	76	41823	39867	37524	36165	34613			
7½	430	6754	6.09	31	77	43863	41998	39844	38576	37281			
	450	7068	6.98	34	78	45903	44121	42097	40960	39722			
	465	7304	7.70	37	79	47433	45709	43775	42731	41533	38339		
10	480	7539	8.47	40	80	48963	47293	45445	44462	43330	41008		
	500	7853	9.58	44	81	51004	49400	47660	46716	45704	43475		
	515	8089	10.46	47	82	52534	50976	49313	48396	47470	45306		

TAUBI-60H (High Pressure)

HP	RPM	TS	MAX BHP	Sones @ F.A.	dBA @ F.A.	CFM / STATIC PRESSURE IN INCHES W.G.							
						0.000 CFM	0.125 CFM	0.250 CFM	0.375 CFM	0.500 CFM	0.625 CFM	0.750 CFM	1.000 CFM
3	380	5969	2.14	23	75	31149	27225	21706					
	430	6754	3.13	32	79	35247	31875	27989	22495				
5	470	7382	4.05	44	82	38526	35360	31982	27093	21807			
	510	8011	5.21	54	85	41805	38805	35877	32381	27617			
7½	535	8403	5.98	54	85	43854	40943	38274	35124	30430	25897		
	560	8796	6.91	55	85	45904	43070	40642	37625	33512	29709		
	585	9189	7.84	55	86	47953	45188	42986	40089	36874	32552	28201	
10	615	9660	9.16	56	86	50412	47720	45682	43011	40279	35950	32723	
	645	10131	10.50	57	87	52871	50246	48299	45898	43283	40019	36127	
15	690	10838	12.85	61	88	56560	54106	52193	50166	47706	45277	41607	34844
	735	11545	15.57	68	90	60249	57945	56057	54351	52062	49766	47485	40615
20	775	12173	18.14	76	82	63527	61343	59469	57851	55875	53684	51520	45072
	815	12801	20.87	85	95	66806	64729	62864	61326	59641	57558	55486	50504

Performance shown is for Model TAUBI-L and TAUBI-H without ducts. BHP does not include belt and pulley losses.
The sound ratings shown 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 sone levels. The AMCA Certified Ratings Sound Seal applies to sone ratings only.

TYPICAL SPECIFICATION

Roof mounted upblast exhaust fans shall be of the belt driven tube axial type.

Propeller construction shall be fabricated steel. A standard square key or tapered bushing shall lock the propeller to the shaft. Propellers shall be statically and dynamically balanced.

Fan tube and curb cap shall be constructed of heavy gauge steel with heavy gauge welded steel reinforcing gussets and an integral venturi inlet. Curb cap shall have prepunched mounting holes. These components shall be coated with an industrial grade enamel.

Windbands shall be constructed of galvanized heavy gauge steel with reinforced edges.

Bearing supports shall be constructed of structural steel members to prevent vibration and rigidly support the shaft and bearings. All structural steel parts shall be coated with an industrial grade baked enamel to provide a lasting finish.

Fan shaft bearings and drives shall be isolated from the airstream.

Turned, precision ground and polished steel shafts shall be sized so the first critical speed is at least 25% over the maximum operating speed. Close tolerances shall be maintained where the shaft makes contact with the bearing. Bearings shall be air handling quality, heavy duty, grease lubricated, self aligning ball type in pillow block mounts. Bearings shall be selected for a minimum (L-50) life in excess of 200,000 hours at maximum operating speed. Extended lubrication lines shall be provided with external grease fittings.

**For high temperature applications, insert the appropriate specification here. High temperature specifications are shown below.*

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 the model number and individual serial number for future identification.

Fans shall be Model TAUBI as manufactured by IAP Inc., of Phillips, Wisconsin.

**Specifications for high temperature operation.*
(Insert the applicable specification into the main specification above.)

1. *HT Option I - 200°F-500°F: Fan shall be capable of operating continuously at a temperature between 200°F and 500°F.*
2. *HT Option II -500°F for a minimum of 4 hours: Fan shall meet the requirements of IRI for operation at 500°F for a minimum of 4 hours in an emergency situation.*
3. *HT Option III -1000°F for a minimum of 15 hours: Fan shall meet the requirements for the SBCCI "Standard Fire Prevention Code" for operation at 1000°F for a minimum of 15 minutes in an emergency situation.*

WARRANTY

IAP Inc. warrants this equipment to be free from defects in material and workmanship for a period of one year from the purchase date.

Any units or parts which prove to be defective during the warranty period will be replaced at our option when returned to our factory, transportation prepaid.

Motors are warranted by the motor manufacturer for a period of one year. Should motors furnished by IAP Inc. prove defective during this period, they should be returned to the nearest authorized motor serviced station. IAP Inc. will not be responsible for any installation or removal costs.

Due to continuing research, IAP Inc. reserves the right of change specifications without notice.

IAP INC.
P.O. BOX 56
PHILLIPS, WI 54555
715/339-3024

TAUBI-10-0
June 1993