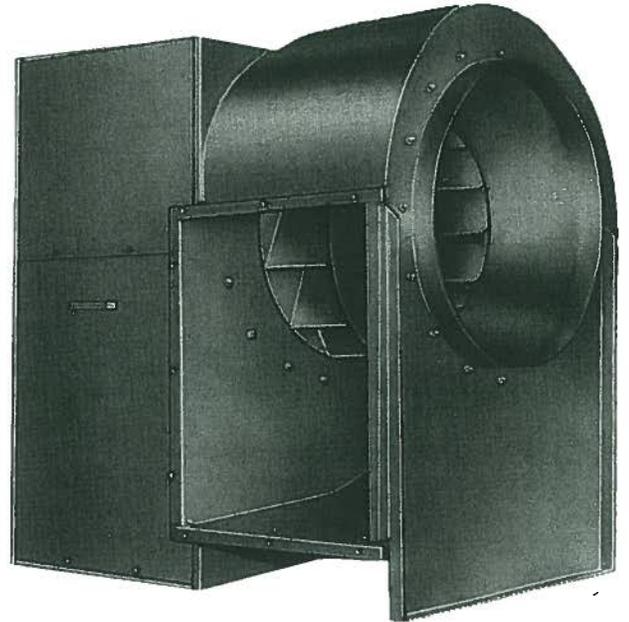


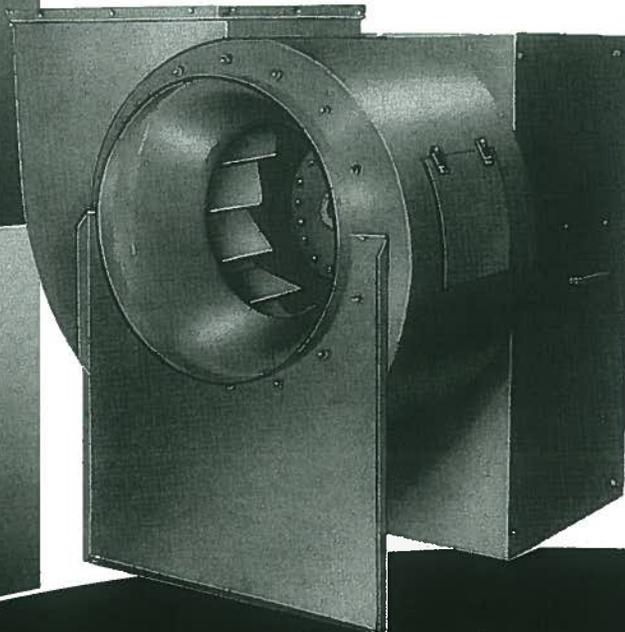
# Quietaire

C O R P O R A T I O N

**Backward Inclined  
Utility  
Blowers**



**BI SERIES**



**BI-RM SERIES  
RESTAURANT  
MODELS**

For Distributor Nearest You:

Phone: (713) 228-9421

Fax: (713) 228-9425

505 North Hutcheson

Houston, Texas 77003

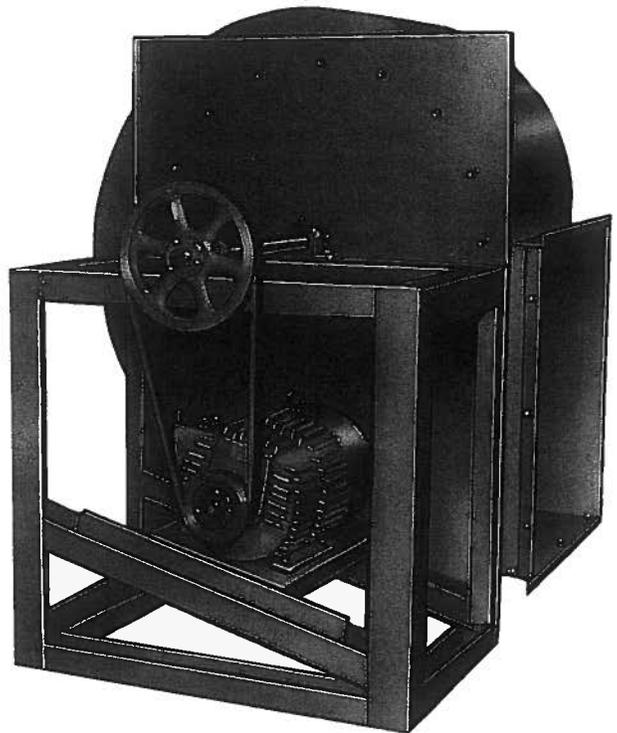
Web: [www.quietaire.com](http://www.quietaire.com)

E-mail: [info@quietaire.com](mailto:info@quietaire.com)

July 2000

# BI UTILITY BLOWER

- . **Listed UL 705 "Power Ventilators"**
- . **Full AMCA CLASS I operation**
- . **AMCA type B spark resistant construction** (aluminum wheel and non-ferrous rings around shaft opening)
- . Standard bottom horizontal discharge can easily be rotated to any of 8 positions
- . CCW Rotation (see illustration Page 3) is standard. CW Rotation is also available
- . 16 gauge or heavier blower housing
- . Green high solids enamel corrosion resistant paint finish
- . Ball bearings suitable for -65 to +250 deg. F.
- . Outlet flanges are standard



## **MOTOR & DRIVE COMPARTMENT WITH COVER REMOVED**

### OPTIONAL ACCESSORIES

- . Back draft dampers
- . Inlet and outlet screens
- . Eisen-Heiss corrosion resistant finish (wheel and blower housing only)
- . Heat slinger
- . Shaft seal
- . Clean out door with latches
- . Vibration isolation

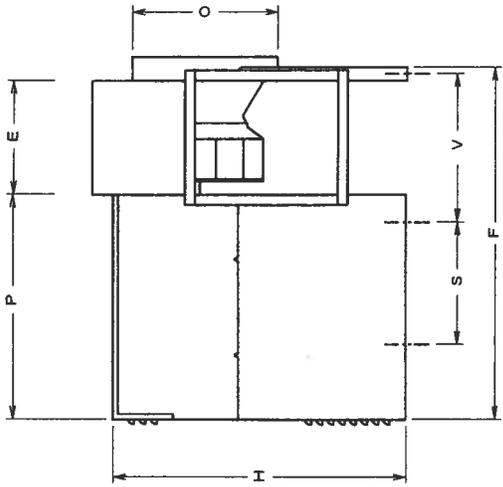
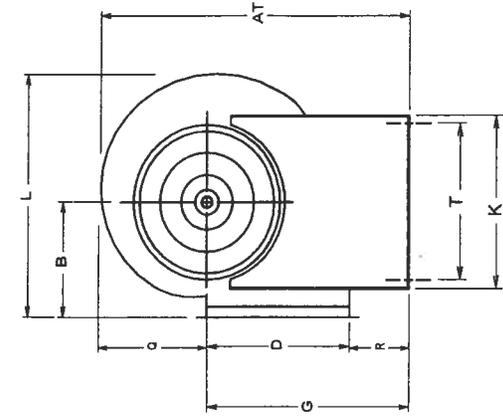
### INSTALLATION EASE

- . Motor access from 3 sides
- . Slide motor base eases motor installation and belt tension adjustments
- . Minimizes installation costs

# BI-RM RESTAURANT MODEL

- . **Listed UL 762 "Power Ventilation" for restaurant exhaust appliances**
- . Upblast discharge directs exhaust away from roof
- . Cleanout door with latches for easy wheel access without tools
- . 2 " drain fitting for easy removal of cleaning solutions
- . Continuously welded 16 gauge or heavier blower housing
- . Meets NFPA 96 guidelines

**BI & RM DIMENSIONS (CCW ROTATION)**

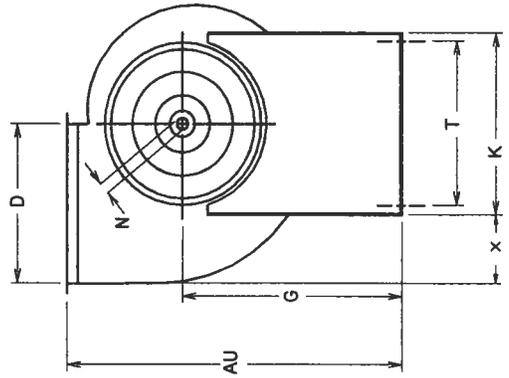
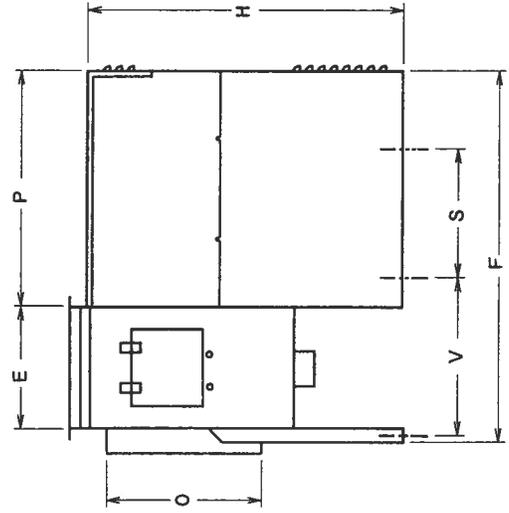


**BI  
BOTTOM  
HORIZONTAL  
DISCHARGE**

DIMENSIONS (inches)

MODEL *	AT	AU	B	D	E	F	G	H	K	L	N	O	P	Q	R	S	T	V.	X	WT. (LBS)
BI-30	65-3/16	64-11/16	24-27/32	31-3/4	23-5/8	57-5/8	43-5/16	64-3/4	43-3/8	50-3/4	1-11/16	31-3/4	32	21-7/8	11-9/16	17	41	28-9/16	10-1/16	800
BI-33	67-7/16	65-5/8	25-9/32	34-7/8	26	60	43-5/16	64-3/4	43-3/8	53-3/4	1-11/16	35	32	24-1/8	8-7/16	17	41	30-15/16	13-3/16	875
BI-36	70-1/8	68-13/16	25-1/2	38-5/8	28-3/4	62-3/4	43-7/16	64-3/4	43-3/8	57	1-15/16	38-3/4	32	26-11/16	4-13/16	17	41	33-11/16	16-15/16	915

\* BI and BI-RM Series



**BI-RM  
RESTAURANT  
MODEL  
UPBLAST  
DISCHARGE**

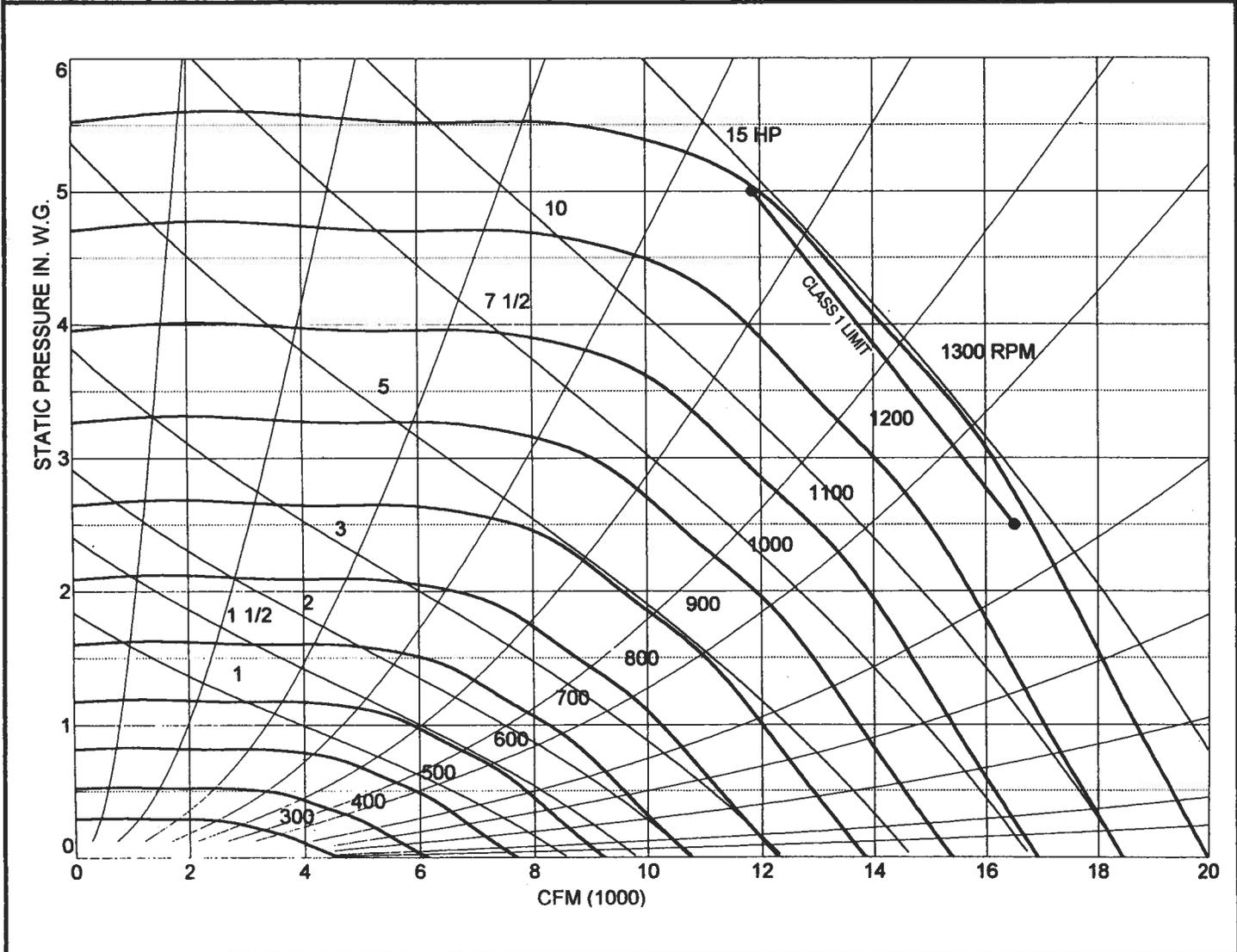
# Model BI-30

## PERFORMANCE DATA



Quietaire Corporation certifies that the BI Series Utility Blowers shown hereon are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

1-11/16" Shaft		Tip Speed : 7.85 x RPM = FPM										Wheel Dia. = 30.00"					
Minimum 1 HP Motor Recommended, 15 HP Maximum		Maximum 1300 RPM															
CFM	OUTLET VELOCITY FPM	1/2" RPM	SP BHP	1" RPM	SP BHP	1-1/2" RPM	SP BHP	2" RPM	SP BHP	2-1/2" RPM	SP BHP	3" RPM	SP BHP	4" RPM	SP BHP	5" RPM	SP BHP
5000	959	459	0.65	573	1.20	683	1.86	782	2.61	875	3.40	959	4.22	1105	5.97	1232	7.89
6000	1151	503	0.86	603	1.46	699	2.16	791	2.95	877	3.81	958	4.74	1107	6.65	1237	8.67
7000	1343	552	1.13	646	1.82	726	2.53	808	3.36	888	4.27	965	5.23	1107	7.34	1238	9.55
8000	1535	607	1.46	690	2.22	766	3.01	836	3.85	908	4.79	978	5.80	1113	8.00	1237	10.40
9000	1727	665	1.87	735	2.70	810	3.59	874	4.46	936	5.42	1000	6.47	1125	8.74	1245	11.22
10000	1919	724	2.39	786	3.24	854	4.22	919	5.22	975	6.18	1031	7.24	1145	9.58	1257	12.16
11000	2111	785	3.01	841	3.89	899	4.95	962	6.02	1019	7.12	1070	8.17	1172	10.58	1277	13.19
12000	2303	845	3.71	898	4.66	950	5.74	1007	6.92	1062	8.10	1114	9.29	1207	11.67	1301	14.40
13000	2495	905	4.52	956	5.56	1004	6.66	1053	7.93	1107	9.18	1157	10.47	1248	12.99	-	-
14000	2687	967	5.45	1015	6.59	1060	7.73	1105	9.01	1152	10.39	1201	11.74	1293	14.55	-	-
15000	2879	1028	6.52	1076	7.78	1117	8.95	1159	10.24	1201	11.68	1247	13.15	-	-	-	-
16000	3071	1090	7.72	1136	9.10	1175	10.33	1214	11.65	1254	13.10	1293	14.68	-	-	-	-
17000	3263	1152	9.07	1197	10.53	1235	11.87	1271	13.23	-	-	-	-	-	-	-	-
18000	3455	1215	10.59	1257	12.12	1295	13.60	-	-	-	-	-	-	-	-	-	-



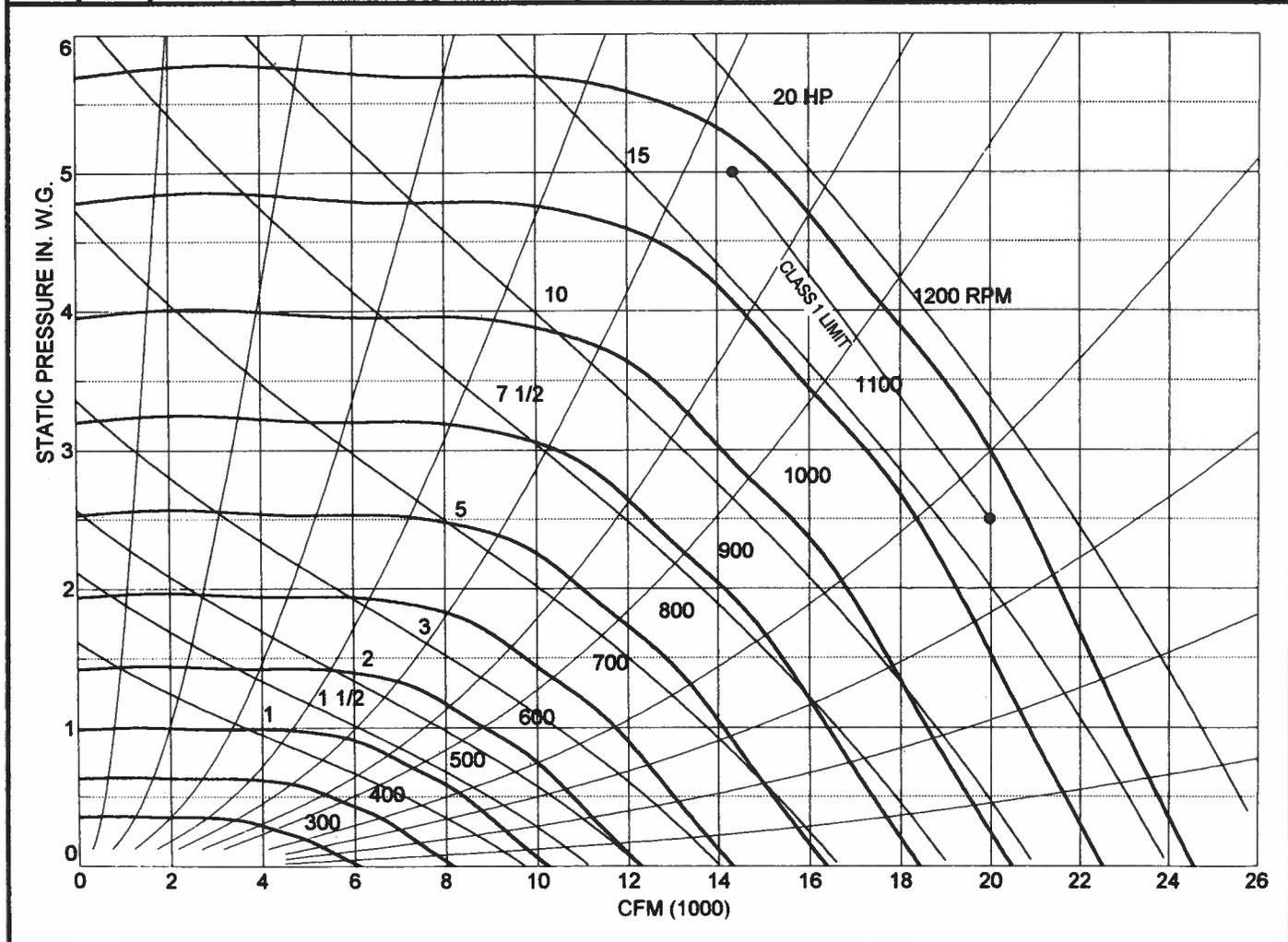
Power Rating (BHP) does not include drive losses. Performance shown is for installation type B-Free Inlet, Ducted Outlet.  
 Performance ratings do not include the effects of appurtenances in the air stream  
 CFM x .472 = L/s      SP x .249 = kPa

# Model BI-33 PERFORMANCE DATA



Quietaire Corporation certifies that the BI Series Utility Blowers shown hereon are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

1-11/16" Shaft		Tip Speed : 8.64 x RPM = FPM										Wheel Dia. = 33.00"					
Minimum 1 HP Motor Recommended, 20 HP Maximum		Maximum 1180 RPM															
CFM	OUTLET VELOCITY FPM	1/2" RPM	SP BHP	1" RPM	SP BHP	1-1/2" RPM	SP BHP	2" RPM	SP BHP	2-1/2" RPM	SP BHP	3" RPM	SP BHP	4" RPM	SP BHP	5" RPM	SP BHP
6000	952	416	0.78	520	1.44	620	2.24	711	3.14	796	4.09	871	5.08	1004	7.19	1120	9.50
7000	1111	449	0.99	541	1.69	631	2.53	717	3.48	796	4.51	874	5.60	1006	7.87	1124	10.28
8000	1270	484	1.23	572	2.02	649	2.88	727	3.86	803	4.94	874	6.09	1006	8.56	1125	11.15
9000	1429	523	1.52	605	2.41	675	3.29	745	4.32	814	5.42	881	6.62	1008	9.22	1125	12.01
10000	1588	565	1.88	638	2.83	707	3.82	768	4.84	831	5.99	894	7.21	1014	9.90	1126	12.84
11000	1746	609	2.32	672	3.33	740	4.41	798	5.47	854	6.64	911	7.91	1024	10.66	1133	13.68
12000	1905	654	2.83	711	3.86	773	5.04	832	6.24	883	7.39	934	8.68	1040	11.50	1142	14.61
13000	2064	699	3.43	752	4.49	807	5.75	864	7.02	916	8.30	963	9.58	1058	12.49	1155	15.61
14000	2223	745	4.11	794	5.22	843	6.52	897	7.89	949	9.28	995	10.63	1083	13.53	1173	16.77
15000	2382	790	4.86	837	6.05	883	7.37	931	8.84	982	10.30	1029	11.81	1112	14.73	-	-
16000	2540	836	5.71	881	6.99	924	8.33	967	9.86	1015	11.42	1061	13.00	1143	16.12	-	-
17000	2699	882	6.66	926	8.05	966	9.42	1007	10.96	1049	12.65	1094	14.29	1178	17.71	-	-
18000	2858	928	7.72	971	9.23	1009	10.63	1047	12.20	1086	13.93	1128	15.69	-	-	-	-
19000	3017	974	8.89	1017	10.53	1052	11.98	1089	13.57	1125	15.31	1162	17.21	-	-	-	-
20000	3176	1021	10.19	1062	11.91	1097	13.46	1131	15.08	1165	16.84	-	-	-	-	-	-
21000	3334	1068	11.61	1107	13.41	1142	15.09	1174	16.74	-	-	-	-	-	-	-	-
22000	3493	1115	13.17	1153	15.05	1187	16.86	-	-	-	-	-	-	-	-	-	-



Power Rating (BHP) does not include drive losses. Performance shown is for installation type B-Free Inlet, Ducted Outlet  
 Performance Ratings do not include the effects of appurtenances in the air stream      CFM x .472 = L/s      SP x .249 = kPa



Quietaire Corporation certifies that the BI Series Utility Blowers shown hereon are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

# Model BI-36 PERFORMANCE DATA

1-15/16" Shaft

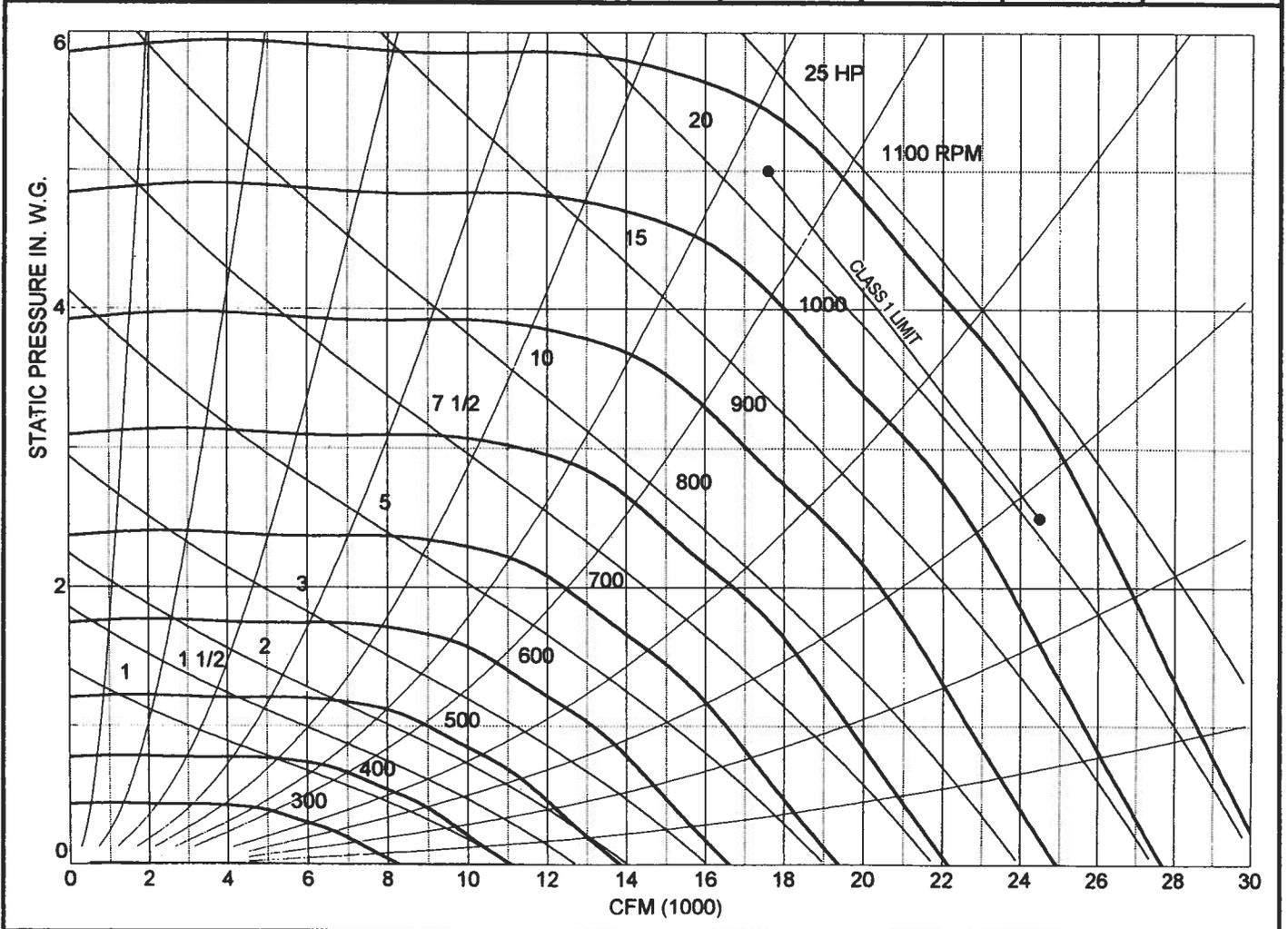
Tip Speed : 9.56 x RPM = FPM

Wheel Dia. = 36.50"

Minimum 1 HP Motor Recommended, 25 HP Maximum

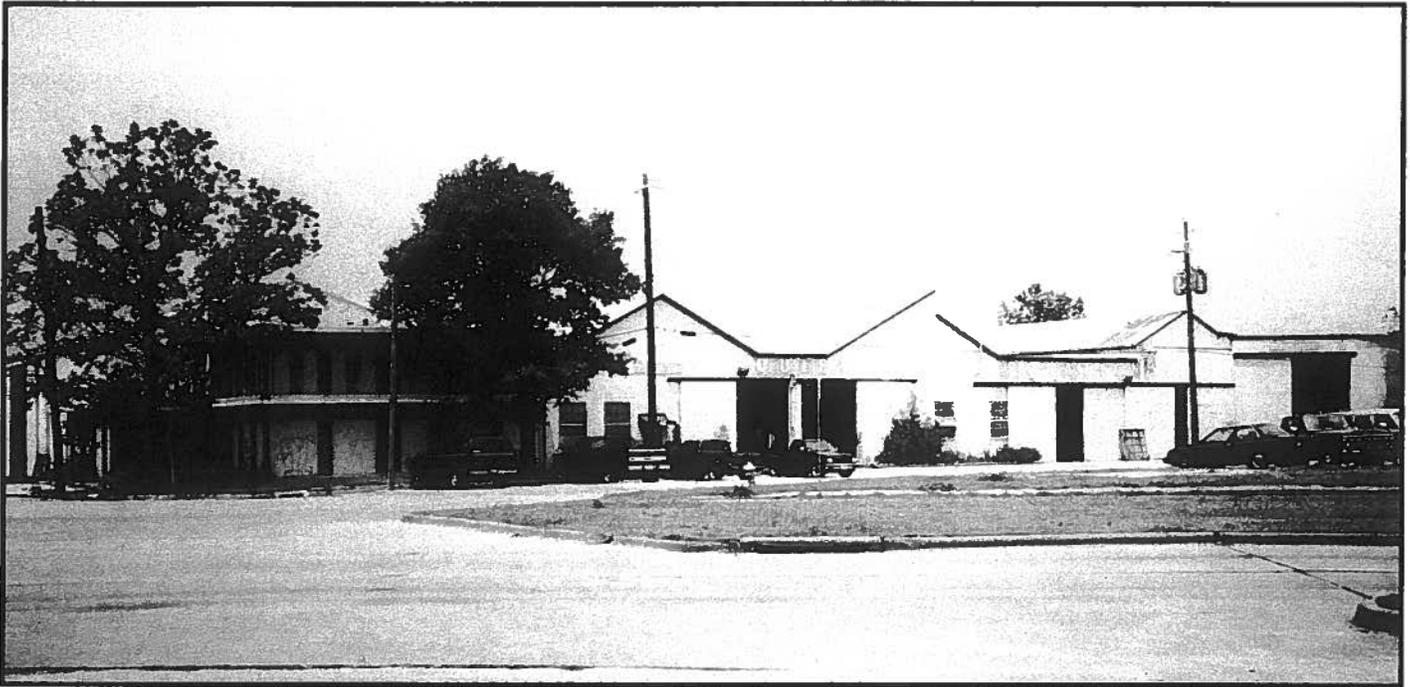
Maximum 1070 RPM

CFM	OUTLET VELOCITY FPM	1/2" RPM	SP BHP	1" RPM	SP BHP	1-1/2" RPM	SP BHP	2" RPM	SP BHP	2-1/2" RPM	SP BHP	3" RPM	SP BHP	4" RPM	SP BHP	5" RPM	SP BHP
8000	1037	392	1.08	479	1.92	565	2.93	645	4.06	719	5.29	788	6.55	910	9.23	1014	12.13
9000	1167	417	1.31	499	2.20	576	3.23	651	4.41	722	5.69	788	7.07	910	9.93	1017	12.94
10000	1296	443	1.57	522	2.55	590	3.61	660	4.81	727	6.14	791	7.56	910	10.62	1017	13.82
11000	1426	473	1.86	547	2.94	610	4.02	673	5.27	736	6.63	797	8.10	911	11.27	1017	14.68
12000	1556	504	2.22	571	3.36	633	4.53	690	5.79	748	7.18	806	8.68	916	11.95	1018	15.52
13000	1685	536	2.63	596	3.84	658	5.12	711	6.38	763	7.82	818	9.34	922	12.70	1022	16.33
14000	1815	568	3.10	623	4.35	682	5.72	735	7.09	783	8.50	832	10.10	932	13.48	1027	17.23
15000	1945	602	3.65	652	4.92	707	6.38	760	7.88	806	9.31	851	10.88	944	14.37	1035	18.19
16000	2074	635	4.26	682	5.56	732	7.11	784	8.67	830	10.25	873	11.80	958	15.37	1046	19.21
17000	2204	669	4.94	714	6.29	759	7.88	808	9.53	855	11.23	896	12.86	976	16.40	1059	20.35
18000	2334	702	5.67	745	7.10	788	8.71	833	10.47	879	12.23	922	14.05	997	17.56	-	-
19000	2463	736	6.48	778	8.00	818	9.63	859	11.49	903	13.32	945	15.20	1020	18.89	-	-
20000	2593	770	7.37	810	8.99	848	10.64	887	12.52	928	14.48	970	16.44	1044	20.36	-	-
21000	2723	804	8.35	844	10.07	880	11.76	916	13.66	954	15.74	994	17.76	1069	21.96	-	-
22000	2852	838	9.42	877	11.26	911	12.98	946	14.90	981	17.02	1019	19.17	-	-	-	-
23000	2982	873	10.58	911	12.55	944	14.31	977	16.25	1010	18.39	1045	20.68	-	-	-	-
24000	3112	907	11.84	945	13.90	976	15.75	1008	17.72	1040	19.88	-	-	-	-	-	-
25000	3241	942	13.20	978	15.34	1009	17.31	1039	19.31	1070	21.49	-	-	-	-	-	-
26000	3371	976	14.67	1012	16.89	1043	18.99	-	-	-	-	-	-	-	-	-	-



Power Rating (BHP) does not include drive losses. Performance shown is for installation type B-Free Inlet, Ducted Outlet.  
 Performance ratings do not include the effects of appurtenances in the air stream.  $CFM \times .472 = L/s$   $SP \times .249 = kPa$





*The Quietaire Corporation is located in the heart of Houston's industrial area. The plant is convenient to freeways, railroad and steamship facilities.*

Located in Houston, Texas, Quietaire is a manufacturer of quality ventilation equipment with 60 years of experience in ventilation and manufacturing. Quietaire knows the importance of quality performance and customer service. Manufacturing facilities are continually being improved as

modern technology and ingenuity demands. Modern computer assisted machinery and automated tooling assure close tolerances so that finished products operate as they are designed.

### Warranty

**Warranty and Disclaimer:** Quietaire Corporation extends this limited warranty to the original buyer and warrants that products manufactured by Quietaire shall be free from original defects in workmanship and materials for one year from date of shipment, provided same have been properly stored, installed, serviced, maintained and operated. This warranty shall not apply to products which have been altered or repaired in any way so as to effect its performance, without Quietaire's express authorization, or altered or reliability, nor which have been improperly installed or subjected to misuse, negligence, or accident, or incorrectly used in combination with other substances. The Buyer assumes all risks and liability for results of; use of the products. Warranties on purchased parts, such as electric motor and controls are limited to the terms of warranty extended by our supplier.

**Limitation Of Remedy And Damages:** All claims under this warranty must be made in writing and delivered to Quietaire Corporation 505 North Hutcheson, Houston, Texas 77003 within 15 days after discovery of the defect and prior to the expiration of one year from the date of shipment by Quietaire of the product claimed defective, and Buyer shall be barred from any remedy if Buyer fails to make such claim within such period.

Within 30 days after receipt of a timely claim, Quietaire shall have the option either to inspect the product while in Buyer's possession or to request Buyer to return the product to Quietaire at Buyer's expense for inspection by Quietaire. Quietaire shall replace, or at its option repair, free of charge, any product it determines to be defective, and it shall ship the repaired or replacement product to Buyer F.O.B. point of shipment; provided, however, if circumstances are such as Quietaire judgment to prohibit repair or replacement to remedy the warranted defects, the buyer's sole and exclusive remedy shall be a refund to the buyer of any part of the invoice price, paid to Quietaire for the defective product or part.

Quietaire is not responsible for the cost of removal of the defective product or part, damages due to removal, or any expenses incurred in shipping the product or part to or from Quietaire plant, or the installation of the repaired or replaced product or part.

Implied warranties, when applicable, shall commence upon the same date as the express warranty provided above, and shall except for warranties of title, extend only for the duration of the express warranty provided above. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. The only remedy provided to you under an applicable implied warranty and the express warranty shall be the remedy provided under the express warranty, subject to the terms and conditions contained therein. Quietaire shall not be liable for incidental and consequential losses and damages under the express warranty, any applicable implied warranty, or claims for negligence, except to the extent that his limitation is found to be unenforceable under applicable state law. Some states do not allow exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. The warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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Quietaire assumes no obligation or liability on account of any recommendations, opinions, or advice as to the choice, installation or use of products. Any such recommendations, opinions or advice are given and shall be accepted at your own risk and shall not constitute any warranty or guarantee of such products or their performance.

**For Distributor Nearest You –**

Telephone 713 228-9421

Fax 713 228-9425

**Quietaire, Corporation**

505 North Hutcheson

Houston, Texas 77003

# Quietaire

WEB SITE: <http://www.quietaire.com> E-MAIL: [info@quietaire.com](mailto:info@quietaire.com)

**CATALOG BIUB400**