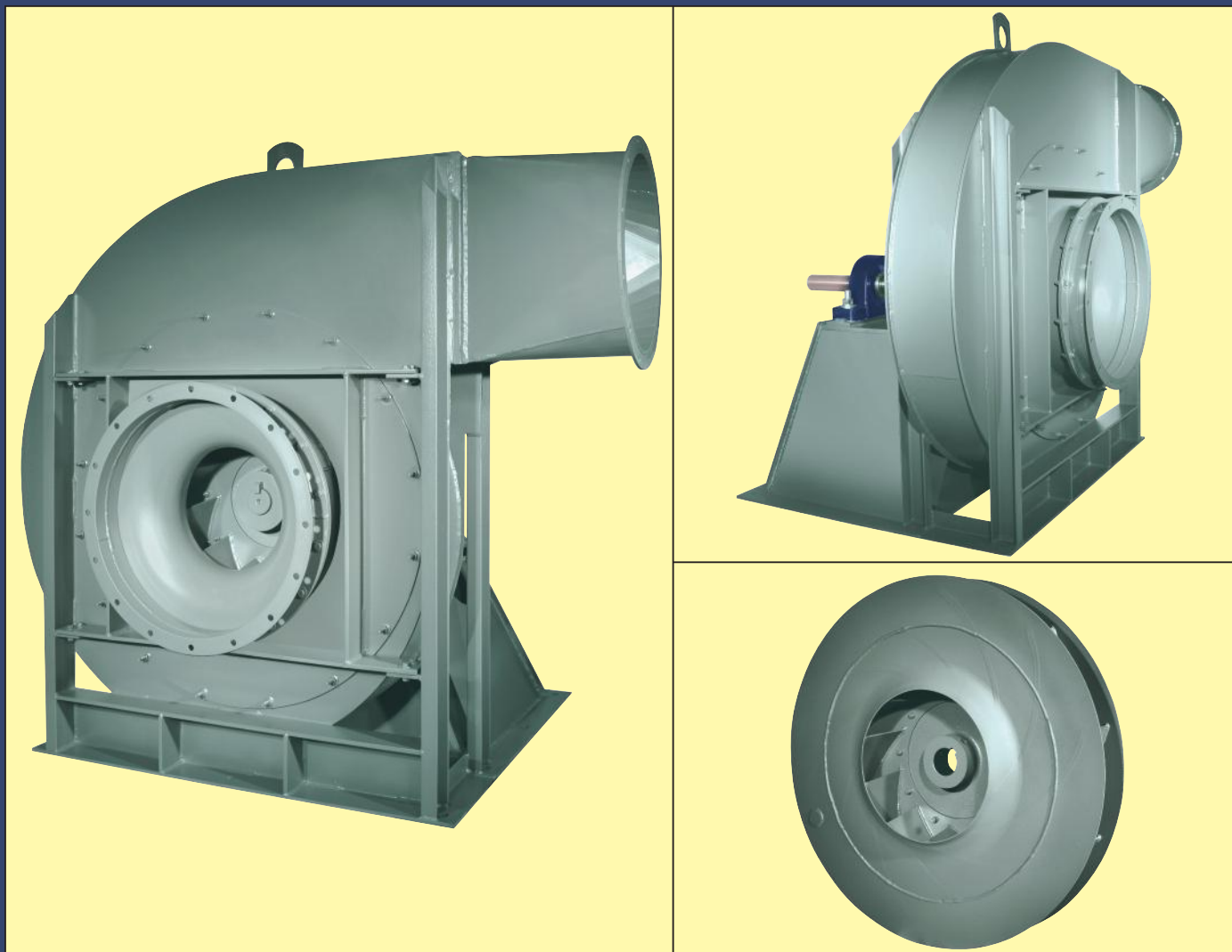


BACKWARD-CURVED PRESSURE BLOWER FANS



- Capacities to 80,000 CFM
- Static pressures to 110"WG
- Temperatures to 800°F.

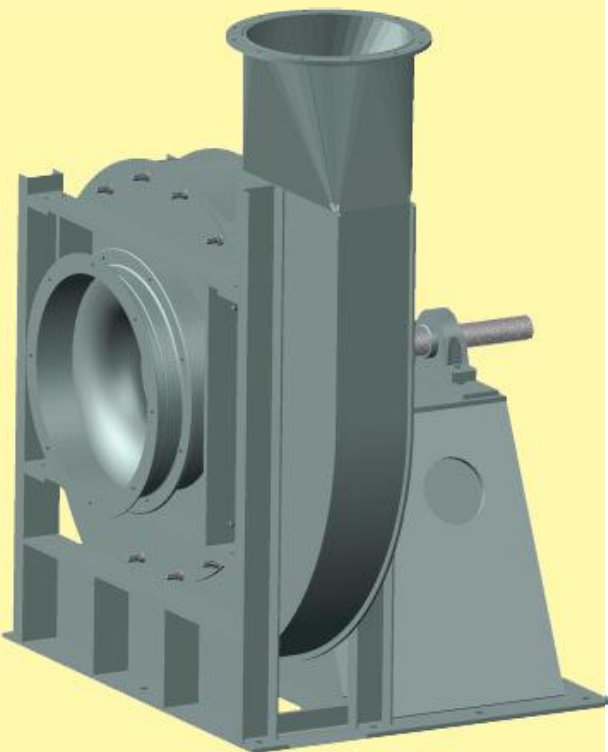
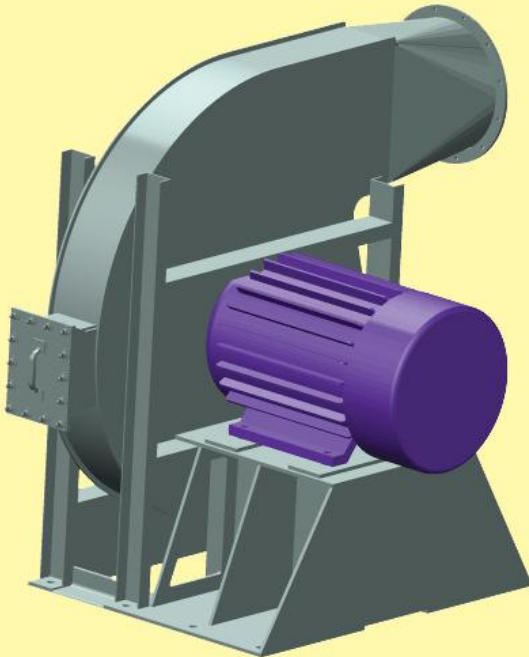


THE NEW YORK BLOWER COMPANY
7660 Quincy Street
Willowbrook, IL 60527-5530

Visit us on the Web: <http://www.nyb.com>
Phone: (800) 208-7918 Email: nyb@nyb.com

BC PRESSURE BLOWER FANS

Size 33, Arrangement 4
BC Pressure Blower.



Size 27 Belt Drive BC Pressure
Blower less Motor, Drive, and Base.

Standard high efficiency, BC Pressure Blower Fans for clean air and light particulate-laden applications.

DESIGN FEATURES

- Single-thickness, backward-curved wheel constructed of high-strength, low alloy steel for dependable operation in moist or light particulate-laden airstreams.
- Wheel sizes from 24" to 73" blade diameters.
- Capacities to 80,000 CFM.
- Pressures to 110"WG.
- Mechanical efficiency to 84%.
- Temperatures to 800°F.
- Choice of direct-drive or belt-drive arrangements.
- Integral-base construction eliminates the need for field erection of independent bearing pedestals and sole plates...complete factory-assembled units up to Size 73 are test run and balanced prior to shipment.
- Available in clockwise and counterclockwise rotations in any of seven standard discharge positions.

CONSTRUCTION FEATURES

Flanged inlet and outlet—standard on all sizes...furnished with bolt holes for ease of installation.

Lifting eyes—standard on all sizes for ease of handling.

Shafting—high quality, close tolerance, turned, ground, and polished.

Shaft seal—ceramic-felt shaft seals standard on all Arr. 1 and 8 fans...multiple seal elements compressed between metal backing plate and retainer.

Precision balancing—all BC Pressure Blower wheels are dynamically balanced before final assembly...after final assembly all fans are given a final balance check on a rigid test bed at the specified running speed.

Heavy-duty bearings—selected for long life through applicable speed range.

Standard two-coat paint system—two coats of medium green industrial enamel. Heat Fans (301°F.–800°F.) are coated with high-temperature paint.

BC PRESSURE BLOWER WHEELS

BC Pressure Blower wheels—rugged, all-welded wheels designed for clean air applications but capable of handling light particulate-laden or moist airstreams. Air-handling efficiencies of the BC Pressure Blower Fans are higher than common radial fans and, therefore, offer lower noise levels. See pages 7–9 for performance information, or use **nyb** Electronic Catalog Software for more specific details.



ELECTRONIC CATALOG

Fan-selection program corrects for altitude, temperature, rarefaction, adjusts maximum safe speed for wheel width, and generates performance curves. Also includes complete product literature, guide specifications, installation and maintenance literature, Engineering Letters, web-site launch, and a listing of New York Blower sales representatives.

SAFETY EQUIPMENT

Belt guards, inlet and outlet guards, shaft and bearing guards, and coupling guards are available from The New York Blower Company. Contact your **nyb** representative for further information.

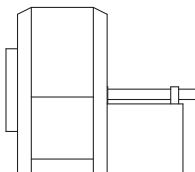
NOTE: Safe operation of air-moving equipment is dependent on proper installation and maintenance including selection and use of appropriate safety accessories for the specific installation. The system designer must consider providing guards for all exposed moving parts as well as protection from access to high-velocity airstreams. Improper application, installation, maintenance, or safety-guard selection can create

danger to life and limb of personnel. Users and/or installers should read “Recommended Safety Practices For Air Moving Devices” as published by the Air Movement and Control Association International, 30 West University Drive, Arlington Heights, Illinois 60004, which is included with the packing slips for all shipments from **nyb** and available on request.

ARRANGEMENT FLEXIBILITY

ARRANGEMENT

1



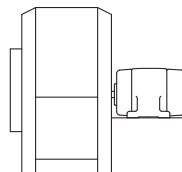
Overhung wheel on shaft and bearing assembly isolates fan bearings from airstream. Normally this arrangement is used for V-belt-drive fans which provides flexibility in fan performance.

Available in 24” to 66” wheel diameters.

Maximum temperature:
Standard fan: 300°F.
Heat fan: 800°F.

ARRANGEMENT

4

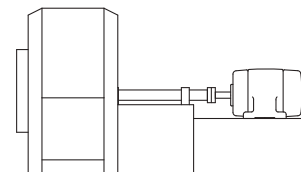


Wheel mounted directly on motor shaft to provide the most compact design. Elimination of shaft and bearings for minimum maintenance. Narrow-width wheel designs permit higher speeds and pressures.

Available in 24” to 49” wheel diameters.
Maximum temperature: 180°F.

ARRANGEMENT

8



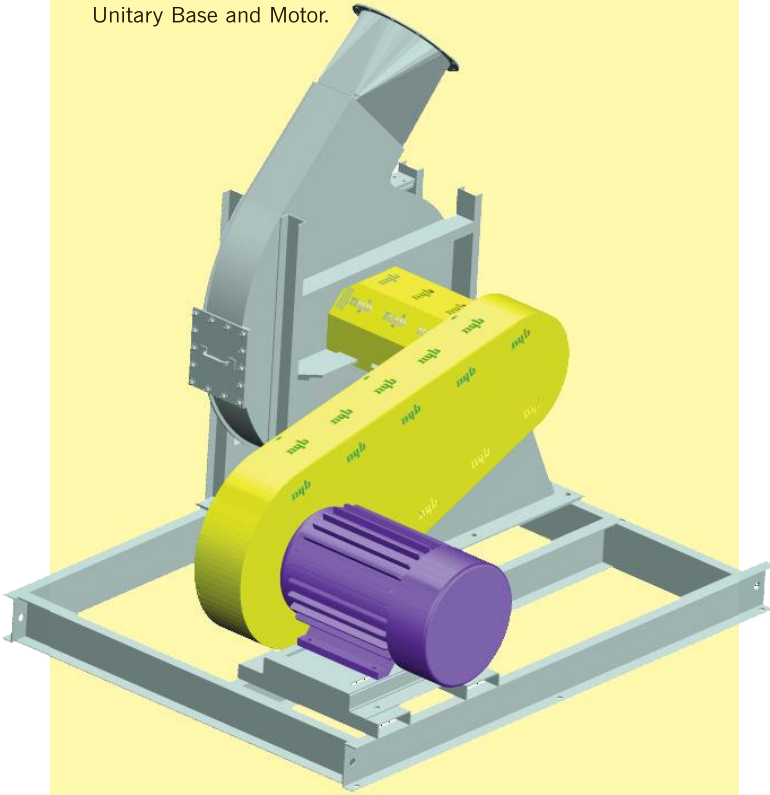
Similar to Arrangement 1 but with integral motor base to accommodate motor and coupling.

Available in 24” to 73” wheel diameters.

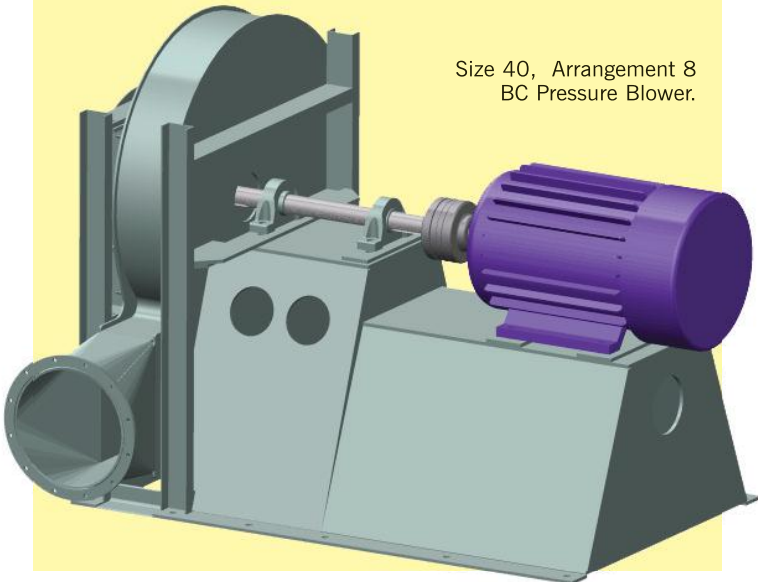
Maximum temperature:
Standard fan: 300°F.
Heat fan: 800°F.

ACCESSORIES

Size 27, Arrangement 1
BC Pressure Blower with
Unitary Base and Motor.



Size 40, Arrangement 8
BC Pressure Blower.



- **COMPANION FLANGES**

Designed to fit flush with fan inlet and outlet flanges, provided with a matching hole pattern.

- **DRAIN**

Welded tank flange [NPT], 1½" located at the lowest point in the housing scroll.



- **CLEANOUT DOOR**

Two types of gasketed door available...**bolted**: closely spaced studs keep door securely sealed...**raised bolted**: allows for insulation when desired, door raised 2" from the fan housing.

- **INLET BOX**

Minimizes entry losses normally associated with 90° turns at or near fan inlet...also available with parallel-blade damper for efficient volume control.

- **SHAFT SEALS**

Ceramic-felt shaft seals consist of compressed ceramic felt elements are standard on Arrangements 1 and 8. Lubricated lip seals [Buna-N, Teflon®, and Viton®] and gas-purgeable mechanical seals are also available. Consult your **nyb** representative for availability.

[Teflon is a registered trademark of DuPont]

[Viton is a registered trademark of DuPont Dow Elastomers.]

- **INLET DAMPERS**

External vane construction provides prespun air effect to control fan performance efficiently...maximum temperature: 800°F.

- **VIBRATION ISOLATION**

Rubber-in-shear or spring-type isolation mounted to rugged structural unitary base reduces the transmission of vibration to the mounting structure.

- **UNITARY BASE**

Arrangement 1 fan, motor, and guards can be mounted and shipped on a rugged, structural-steel base. Factory-assembled and run-tested prior to shipment.

- **OTHER ACCESSORIES**

Also available from **nyb** are drive components such as motors, couplings, and v-belt drives as well as a variety of preventive-maintenance products including vibration detectors, bearing-temperature detectors, and zero-speed switches.

MODIFICATIONS

- **COATINGS**

Cost-effective protective coatings under a variety of trade names are available to increase the fan's resistance to adverse, corrosive environments.

- **INSULATION STUDS**

2-inch long weld-studs located on 12-inch centers on all surfaces of housing exterior...recommended for use with field-installed insulation...studs are normally mild steel; stainless steel available on request.

- **HEAT-FAN CONSTRUCTION**

Standard Arrangement 1 and 8 BC Pressure Blower Fans are designed to handle airstreams to 300°F.

BC Pressure Blower Fans handling 301°F. to 800°F. airstreams are furnished with shaft cooler and shaft cooler guard, and all surfaces are coated with high-temperature paint.

NOTE: Contact **nyb** when the intended service involves a temperature rate change exceeding 20°F. per minute.

- **NARROW-WIDTH AND SPECIAL DIAMETER CONSTRUCTION**

Wheel widths and diameters can be adjusted to meet volume and pressure requirements at most efficient operating point.

- **SPLIT-HOUSING CONSTRUCTION**

Provides for wheel and shaft removal...split portion can be removed without disturbing the inlet or outlet connections. This modification is standard on Size 73.

- **SPARK-RESISTANT CONSTRUCTION [SRC]**

Intended to minimize the potential for any two or more fan components to generate sparks within the airstream by rubbing or striking during operation.

The following types are available:

AMCA A [AIRSTREAM] SRC

To include all airstream parts constructed of a spark-resistant alloy...maximum temperature: 200°F.

AMCA B [WHEEL] SRC

To include the fan wheel constructed of a spark-resistant alloy and a buffer plate around the housing shaft-hole opening...maximum temperature: 200°F.

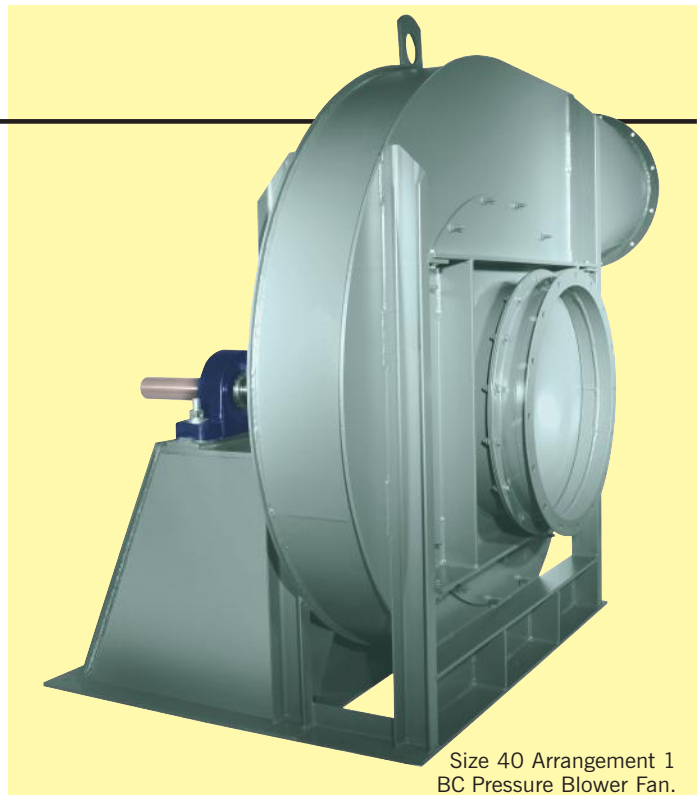
AMCA C [BUFFER] SRC

To include a spark-resistant alloy buffer affixed to the housing interior adjacent to the wheel backplate, a spark-resistant alloy inlet cone, and a buffer plate around the housing shaft-hole opening...maximum temperature: 650°F.

ALL TYPES SRC

Fan is to be so constructed such that no bearings, drive components, or electrical apparatus are located in the airstream...the user must electrically ground all fan and system components.

Refer to Engineering Letter 15 for the full meaning and limits of spark-resistant construction.



Size 40 Arrangement 1 BC Pressure Blower Fan.

Size 40 BC Pressure Blower.



- **SPECIAL ALLOYS**

BC Pressure Blower Fans are available with various grades of stainless steel for corrosive, non-abrasive airstream contaminants. Wheels can be furnished in Alloy 2205 stainless steel to minimize speed derate. Consult **nyb** if other materials are required.

- **TECHNICAL SUPPORT**

nyb has developed numerous engineering and application support tools for system designers and operators. For further information, contact your local **nyb** sales representative or visit our web site at www.nyb.com.

BC PRESSURE BLOWER FANS

SPEED CAPABILITIES

Maximum safe operating speeds are shown in Chart I for BC Pressure Blower Fans with the standard high-strength steel wheel and the standard shaft and bearings as listed. Substitution of alternate wheel alloys, or modifications to the standard shaft and bearing selection, may alter the maximum safe speed.

Chart II provides safe speed correction factors for various temperatures and the common alternate wheel alloys. These factors apply to the wheel safe speeds listed in Chart I.

Example: A Size 36 BC Pressure Blower Fan Arr. 8 with an Alloy 2205 HP wheel operating at a maximum airstream temperature of 600°F. will have a maximum safe operating speed of 2160 RPM [3600 x .60].

CORRECTION FACTORS

Performance is based on actual cubic feet per minute [ACFM] at the blower inlet at standard density [.075 lbs./ft.³] and static pressure at the blower outlet. Static pressure capabilities are shown in inches water gauge [“WG].

Air density corrections are necessary for proper selection when air density varies from the standard .075 lbs./ft.³ at 70°F. at sea level. This also occurs when negative static pressure exists [rarefaction] on the inlet side of the fan. Multiply the required static pressure at conditions by the appropriate factors in Charts III, IV, and V to obtain corrected pressure for blower selection. Pressure and BHP will be reduced at conditions by the inverse of these factors. Multiply one factor by the other if temperature, altitude, and rarefaction are non-standard. For example: If the installation is located at an altitude of 4000 feet, the gas temperature is 300°F., and the inlet pressure is -40“WG, the correction factor is 1.84 [1.16 x 1.43 x 1.11].

CHART I MAXIMUM OPERATING SPEEDS BC PRESSURE BLOWER FAN WHEELS, SHAFTS, AND BEARINGS

Fan size	Wheel Max Safe Speed		Arr. 1			Arr. 8	
	Arr. 1 MP	Arr. 4/8 HP	Shaft dia.	Bearing Type*		Shaft dia.	Bearing Type*
				Inboard	Outboard		
24	4040	4040	1 15/16	B	D	1 15/16	B
27	3665	3665	2 3/16	B	D	1 15/16	B
30	3250	4105	2 7/16	B	D	2 3/16	C
33	2980	3720	2 7/16	C		2 7/16	C
36	2980	3600	2 1 1/16	C		2 1 5/16	C
40	2430	3600	2 1 5/16	D		3 7/16	C
44	2175	2845	2 1 5/16	D		3 7/16	C
49	1975	2580	3 7/16	D		3 7/16	C
54	1800	2045	3 1 5/16	D		3 7/16	E
60	1625	1830	4 7/16	E		3 1 5/16	E
66	1500	1545	4 7/16	E		4 7/16	E
73	—	1500	—	—		4 7/16	E

*Bearing Type:

- B Medium Duty Ball, Concentric Lock
- C Heavy Duty Ball, Adapter Mount
- D Spherical Roller, Concentric Lock
- E Split Housing Spherical Roller, Adapter Mount

CHART II TEMPERATURE CORRECTION FACTORS FOR MAXIMUM OPERATING SPEEDS

Air-stream Temp. [°F]	Standard HSLA Steel Wheel			Aluminum			Stainless 316			Alloy 2205		
	Arr. 1 (MP)	Arr. 4/8 (HP)		Arr. 1 (MP)	Arr. 4/8 (HP)		Arr. 1 (MP)	Arr. 4/8 (HP)		Arr. 1 (MP)	Arr. 4/8 (HP)	
		All Sizes	Sizes 24-33		Sizes 36-73	All Sizes		Sizes 24-33	Sizes 36-73		All Sizes	Sizes 24-33
-50°	1.0	1.0	1.0	0.97	0.85	0.64	0.56	0.85	0.74			
70°	1.0	1.0	1.0	0.97	0.85	0.64	0.56	0.85	0.74			
200°	0.97	0.96	0.95	0.95	0.83	0.61	0.53	0.79	0.69			
300°	0.94	0.95	--	--	--	0.58	0.51	0.76	0.66			
400°	0.91	0.95	--	--	--	0.56	0.49	0.73	0.64			
500°	0.88	0.94	--	--	--	0.54	0.47	0.70	0.62			
600°	0.85	0.92	--	--	--	0.53	0.46	0.68	0.60			
700°	0.81	0.91	--	--	--	0.52	0.45	--	--			
800°	0.77	0.89	--	--	--	0.51	0.45	--	--			

CHART III TEMPERATURE CORRECTIONS

Temp. °F.	Factor
0	.87
20	.91
40	.94
60	.98
70	1.00
80	1.02
100	1.06
120	1.09
140	1.13
160	1.17
180	1.21
200	1.25
300	1.43
400	1.62
500	1.81
600	2.00
800	2.38

CHART IV ALTITUDE [ft.] CORRECTIONS

Alt.	Factor
0	1.00
500	1.02
1000	1.04
1500	1.06
2000	1.08
2500	1.10
3000	1.12
3500	1.14
4000	1.16
4500	1.18
5000	1.20
5500	1.23
6000	1.25
7000	1.30
8000	1.35
9000	1.40
10000	1.45

CHART V RAREFACTION CORRECTIONS

Neg. inlet pressure “WG	Factor
40	1.11
45	1.12
50	1.14
55	1.16
60	1.17
65	1.19
70	1.21
75	1.23
85	1.26
90	1.28
95	1.30
100	1.32
105	1.35
110	1.37

NOTE: If correction factor for both temperature and altitude is required, multiply factors from Charts III and IV together: 3000’ and 600°F. 1.12 x 2.00 = 2.24 [combined factor].

USING CAPACITY CURVES

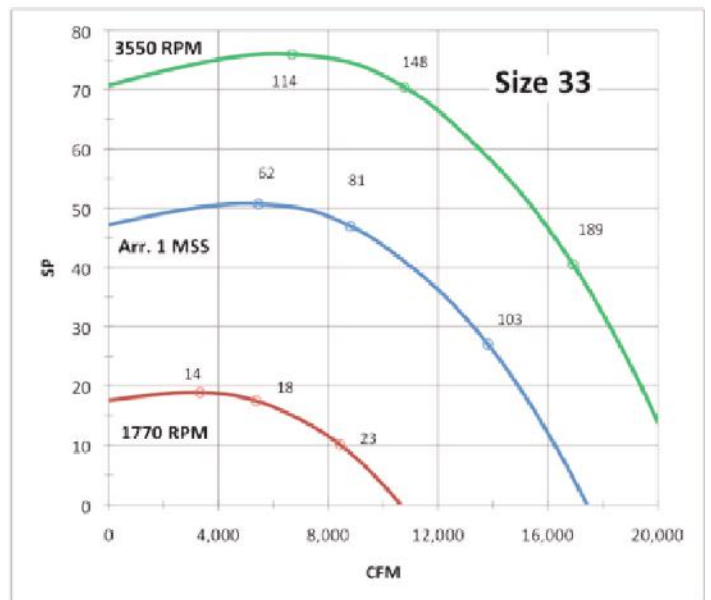
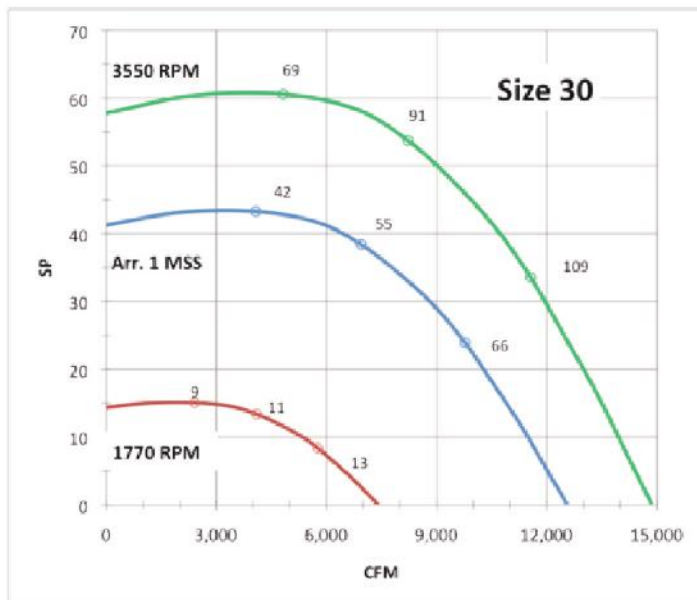
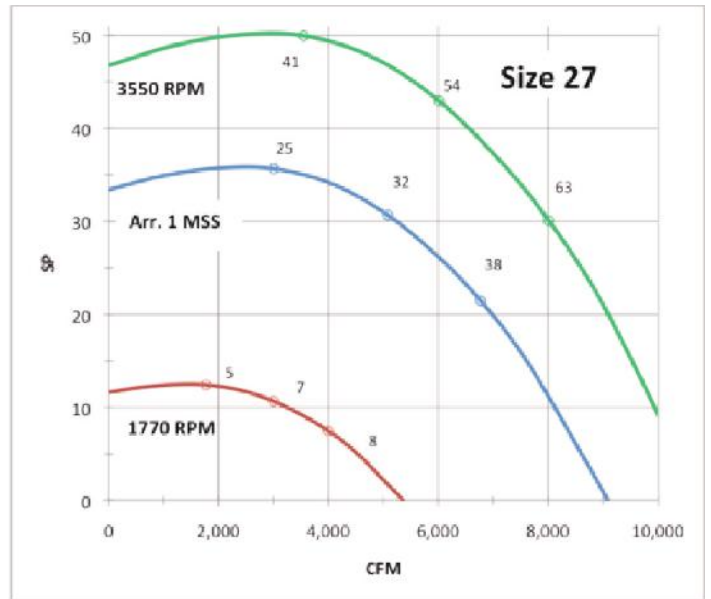
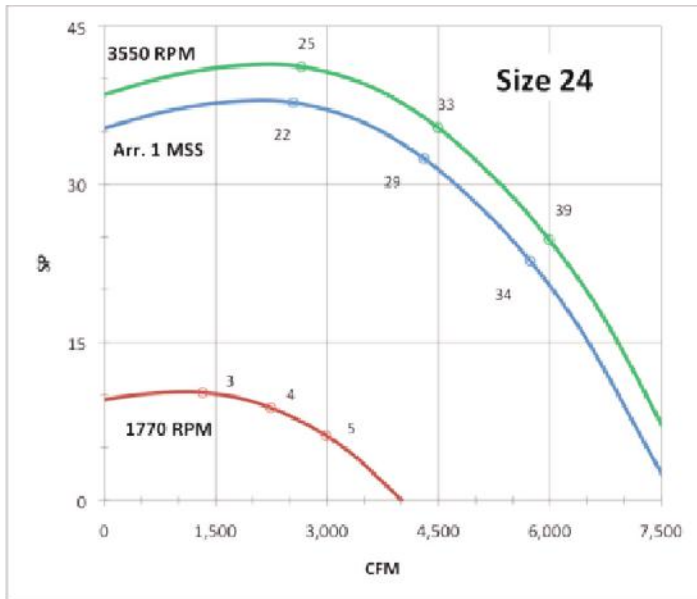
Performance is shown according to sizes for quick reference. Brake horsepower increments are identified on each curve.

1. Ratings are based on standard 70°F. air at a density of .075 pounds per cubic foot. See page 6 for density correction factors.
2. Performance shown is for BC Pressure Blower Fans with outlet ducts, and with or without inlet ducts.
3. For a given selection, check the required fan speed at the maximum operating temperature against the maximum safe speeds shown in Chart I on page 6.

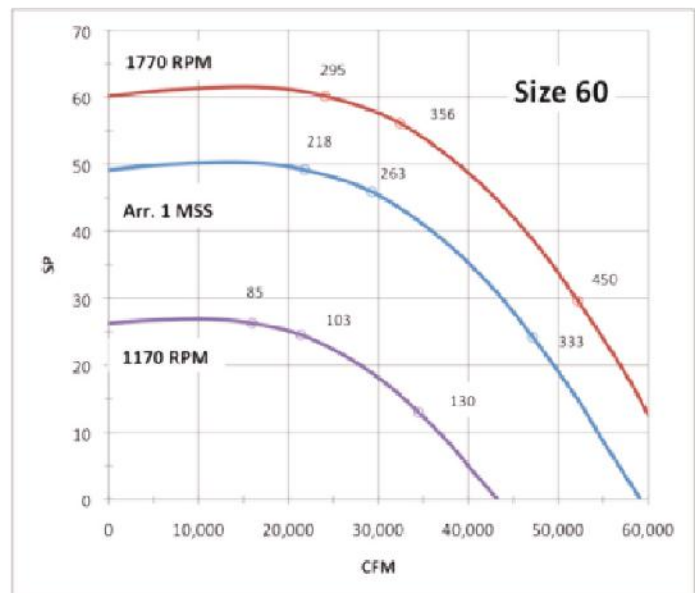
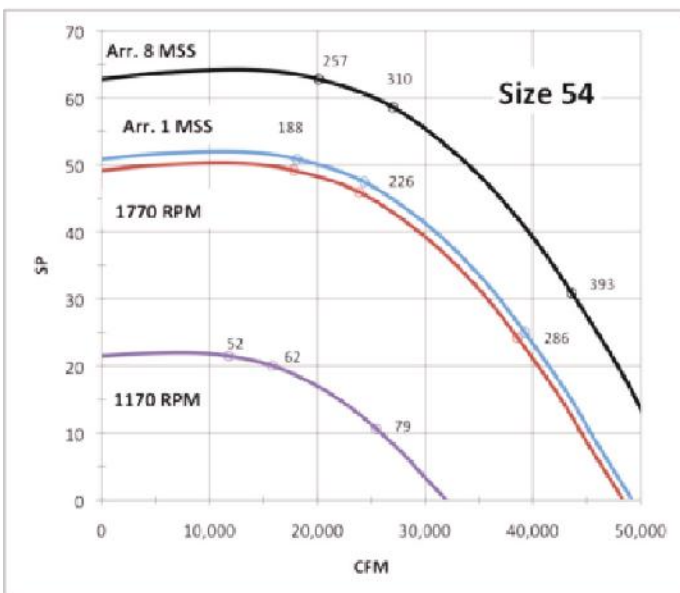
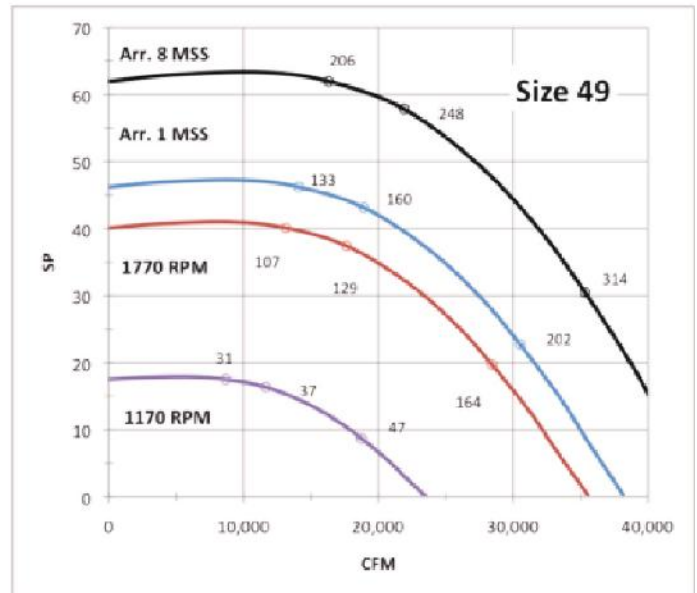
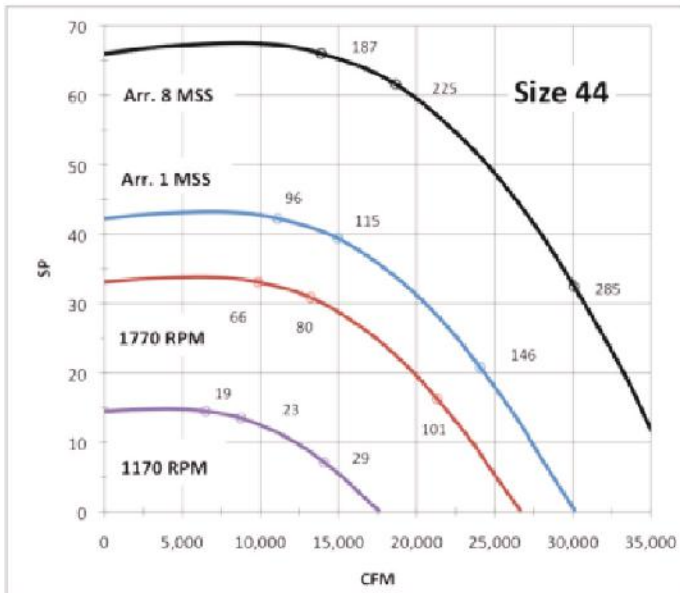
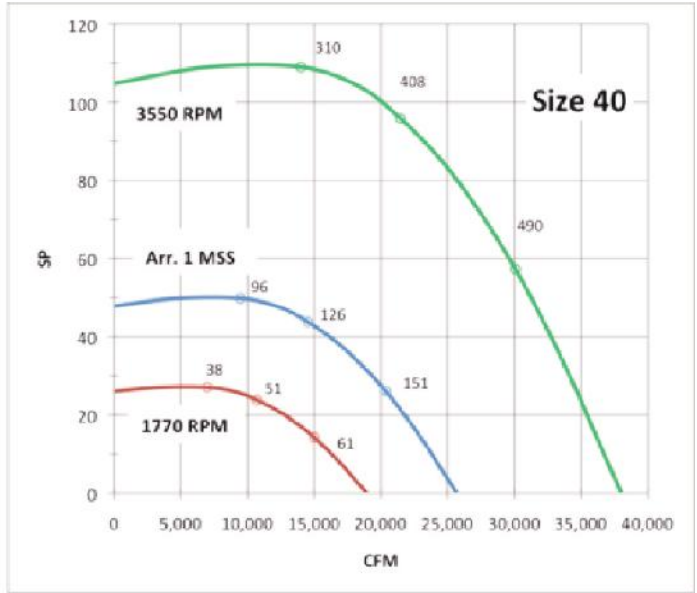
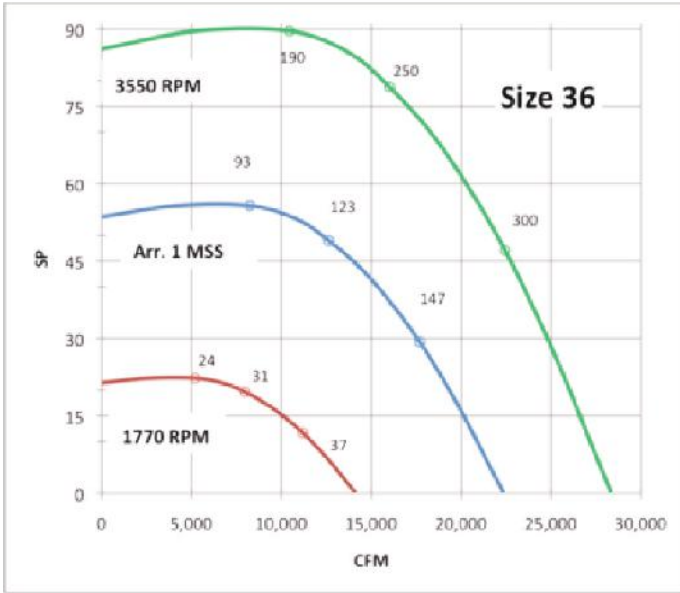
CHART VI			
UNIT MAXIMUM OPERATING SPEED			
Size	Arr. 1	Arr. 4	Arr. 8
24	3400	3600	3600
27	3000	3600	3600
30	3000	3600	3600
33	2900	3600	3600
36	2800	3600	3600
40	2400	3600	3600

CHART VI			
UNIT MAXIMUM OPERATING SPEED			
Size	Arr. 1	Arr. 4	Arr. 8
44	2000	3000*	2500
49	1900	2600*	2200
54	1800	—	2000
60	1600	—	1800
66	1500	—	1500
73	—	—	1500

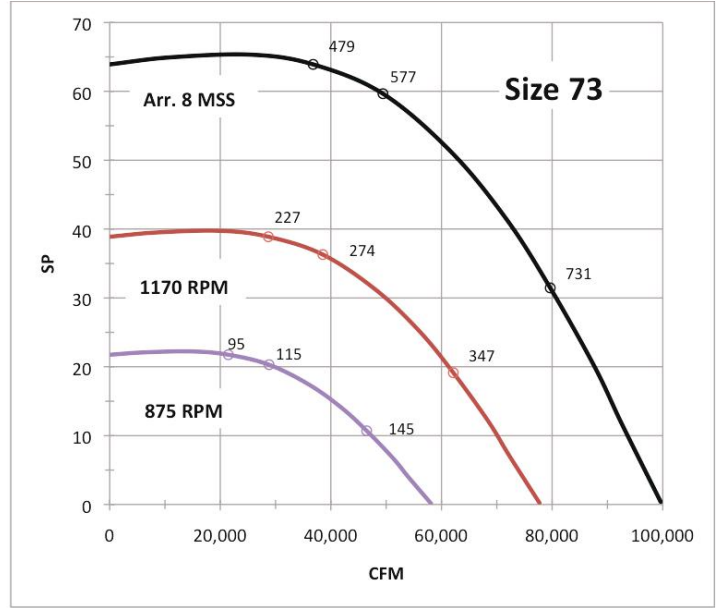
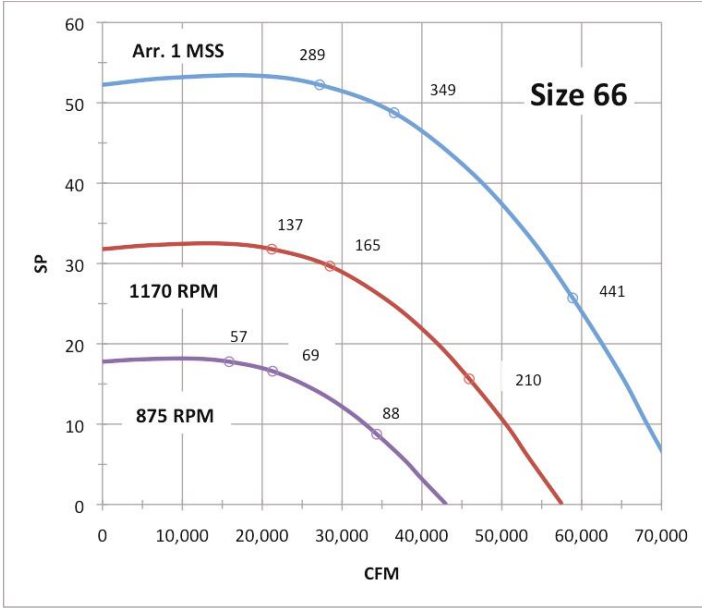
*Requires narrow width wheel construction.



CAPACITY CURVES



CAPACITY CURVES



MATERIAL SPECIFICATIONS [INCHES, POUNDS, WR² IN LB.-FT²]

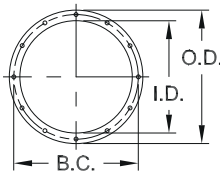
Size	Housing			Base bars	Base angles	Bearing pedestal		Wheel				Bare fan weight (lbs.)‡
	Side	Scroll	Support channels			Top	Sides	Arr. 1		Arr. 4/8		
								Weight (lbs.)*	WR ² (lbs.-ft. ²)*	Weight (lbs.)*	WR ² (lbs.-ft. ²)*	
24	1/4	1/4	3"-4.1#	3 x 3/8	3 x 2 x 3/16	3/8	3/8	86	44	86	44	952
27	1/4	1/4	3"-4.1#	3 x 3/8	3 x 2 x 3/16	3/8	3/8	99	62	100	62	1118
30	1/4	1/4	3"-4.1#	3 x 3/8	3 x 2 x 3/16	3/8	3/8	145	102	148	103	1359
33	1/4	1/4	4"-5.4#	4 x 1/2	4 x 3 x 1/4	1/2	3/8	167	145	170	147	1779
36	3/8	1/4	4"-5.4#	4 x 1/2	4 x 3 x 1/4	1/2	3/8	225	261	230	265	2321
40	3/8	1/4	4"-5.4#	4 x 1/2	4 x 3 x 1/4	1/2	3/8	328	465	339	474	2700
44	3/8	1/4	4"-5.4#	4 x 1/2	4 x 3 x 1/4	1/2	3/8	362	623	371	633	3151
49	3/8	1/4	5"-6.7#	5 x 5/8	5 x 3 1/2 x 5/16	5/8	3/8	423	905	436	919	3944
54	3/8	1/4	5"-6.7#	5 x 5/8	5 x 3 1/2 x 5/16	5/8	3/8	533	1354	549	1372	4741
60	3/8	1/4	5"-6.7#	5 x 5/8	5 x 3 1/2 x 5/16	5/8	3/8	631	2017	648	2042	5838
66	3/8	1/4	5"-6.7#	5 x 5/8	5 x 3 1/2 x 5/16	5/8	3/8	776	3122	794	3163	6770
73	3/8	1/4	6"-8.2#	6 x 3/4	6 x 4 x 3/8	5/8	1/2	—	—	1242	6229	—

* Wheel weight and WR2 will change with special diameter and narrow-width construction. Consult **nyb**.

‡ Bare fan weights for Arr. 4 and Arr. 8 fans are available on application. Consult **nyb**.

FLANGED INLET

Furnished as standard with holes on the centerline.

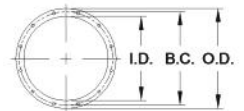


DIMENSIONS [INCHES]					
Size	Inside diameter	Bolt circle	Outside diameter	Holes	
				Number	Diameter
24	16 3/8	17 7/8	19 3/8	8	7/16
27	18 1/4	19 5/8	21 1/4	8	7/16
30	20	21 3/4	23	16	9/16
33	21 3/4	23 1/2	24 3/4	16	9/16
36	24 3/8	26 1/8	27 3/8	16	9/16
40	26 7/8	29 1/8	30 7/8	16	9/16
44	29 1/2	31 3/4	33 1/2	16	9/16
49	32 7/8	35 1/8	36 7/8	16	9/16
54	36 1/8	38 3/8	40 1/8	16	9/16
60	40 1/8	42 3/8	44 1/8	16	9/16
66	43 7/8	46 1/8	47 7/8	24	9/16
73	48 7/8	51 1/8	52 7/8	24	9/16

Tolerance: ± 1/8"

FLANGED OUTLET

Furnished as standard with holes straddling the centerline.



DIMENSIONS [INCHES]					
Size	Inside diameter	Bolt circle	Outside diameter	Holes	
				Number	Diameter
24	12	14	15	12	7/16
27	14	16	17	12	7/16
30	16	18	19	12	9/16
33	18	20	22	12	9/16
36	20	21 3/4	24	12	9/16
40	22	23 3/4	26	16	9/16
44	24	25 7/8	28	16	9/16
49	26	28 3/8	31	16	9/16
54	28	30 3/8	33	16	9/16
60	32	34 3/8	37	16	9/16
66	36	38 3/8	41	24	9/16
73	40	42 3/8	45	24	9/16

Tolerance: ± 1/8"

DIMENSIONS [INCHES] Not to be used for construction unless certified.

ALL ARRANGEMENTS															
Size	A				B		C	D	F	G	H	J	K		L
	TH/TAD	BH/BAU	UB/TAU	DB	*	DB							Arr. 1	Arr. 8	
24	20½	28¾	23¾	20⅞	29¼	20⅞	21⅜	17¾	24⅜	18½	36½	6½	5½	5½	16¾
27	22¼	31¼	25¾	22½	31⅞	22½	23¼	19¼	27¼	19⅜	40¼	7	6	6	18¼
30	24½	34¼	28¼	24½	35	24½	25¾	21¼	30¼	22	44½	7½	6½	6	20
33	26½	37½	30¾	27½	38½	27½	28¼	23¾	33¾	24½	48	8¼	7	6	21¾
36	29	40¾	33¾	28¾	41¾	28¾	31¼	25⅞	36⅜	26½	53½	8⅞	7½	6	24¾
40	31¾	44¼	36¾	31¼	45¼	31¼	34¾	28¾	40¾	29¼	59	10¼	8	7	26⅞
44	34¾	48½	40¾	34	49½	34	38	31½	44½	32¾	64¼	10⅞	8½	7	29½
49	37⅞	52⅞	44½	37	54¼	37	41¾	34⅜	49¼	35⅞	69¾	11¾	9	7	32⅞
54	41½	58	48½	40½	59½	40½	46¾	38½	54¼	39⅞	76½	12⅞	9½	7	36½
60	45½	63½	53¼	44¼	65½	44¼	51	42½	59⅞	43¾	84½	13½	10	8	40½
66	49½	69½	58¼	48¼	71½	48¼	56½	46⅞	65½	47⅜	91¾	14¾	10½	8	43⅞
73	55½	77¾	64⅞	52⅞	78¾	52⅞	61⅞	51⅞	72⅜	52⅜	—	15⅞	—	8	48⅞

Size	M	N		O	P	R	S		T	U	a	b		c	d	Base holes
		Arr. 1	Arr. 8	Arr. 1	DB		Arr. 1	Arr. 8				*	DB			
24	6½	18	18	27½	28	4¾	8⅜	8⅜	17	18½	19½	38¼	35½	23	16¾	¾"
27	7¼	20	20	30¼	30½	5½	9⅜	9⅜	18½	20	21½	42¼	39	25¼	18¾	¾"
30	8	22	22	33	33¼	5½	10⅜	10⅜	20¼	21¾	23⅞	46½	42¾	28	20¾	¾"
33	8¾	24	24	36¾	37½	6¾	11⅜	11⅜	22½	24½	26⅜	51¼	48½	30¾	22¾	¾"
36	9¾	26	26	39¾	40½	6⅞	12⅜	12⅜	24½	26½	28⅞	56⅞	52½	33⅞	24½	1"
40	10¾	30	30	44¾	43¼	7¾	14⅜	14⅜	26¼	28¼	31⅜	61¾	56¼	37¾	27½	1"
44	11⅞	33	33	48⅞	47¾	7⅞	16⅜	16⅜	28¾	30¾	35⅞	67¾	61¾	41¾	29½	1"
49	13	35	35	53	52¾	9	17⅜	17⅜	31¾	34¼	38⅞	73⅞	68¼	45⅞	32½	1"
54	14½	36	36	55½	57½	9¾	17⅜	17⅜	34½	37	42⅞	80⅞	74	50½	36¾	1"
60	16	38	38	59	63	10½	18⅜	18⅜	38	40½	47⅞	89¾	81½	55⅞	40½	1"
66	17½	40	40	62½	69¼	11¼	19⅜	19⅜	41¼	43¾	51⅞	98⅞	89¾	60⅞	44½	1"
73	19¾	—	42	—	76¼	12½	—	20⅜	45¾	48¾	57⅞	108¼	98¾	67¾	48½	1"

* For TH, BH, UB, TAD, BAU, or TAU discharge.

NOTE: Various fan discharges will have housing and scroll bracing additional to what is shown.

ARRANGEMENT 4/8							
Size	Frame size	H	N	O	S	SS	
		Arr. 8	Arr. 4	Arr. 4	Arr. 8	Arr. 4	
24	254T	56¼	15¾	25½	52¾	6⅞	11⅞
	256T	58	17¾	26½	54½	7¾	12⅞
	284T	58½	17¾	26½	55½	7¾	12½
	284TS	57¼	17¾	26½	53¾	7¾	11⅞
	286T	60½	18⅞	28¾	56½	7⅞	13¼
	286TS	58¾	18⅞	28¾	55¼	7⅞	12⅞
	324TS	60¼	19⅞	29¾	56¾	8⅞	13⅞
	326TS	61¾	21¾	30¾	58¼	9⅞	14⅞
27	254T	60	15¾	25½	56	6⅞	11⅞
	256T	61¾	17¾	27½	57¾	7¾	12⅞
	284T	62¾	17¾	27½	58¾	7¾	12¾
	286T	63¾	18⅞	29½	59¾	7⅞	13½
	324TS	64	19⅞	30¾	60	8⅞	13⅞
	326TS	65½	21¾	31¾	61½	9⅞	14⅞
	364TS	65¾	21¼	31½	61¾	9¾	14¼
	365TS	66¾	22¼	32½	62¾	9¾	14¾
30	254T	63¾	15¾	26½	58¾	6⅞	11⅞
	256T	65½	17¾	28¾	60½	7¾	12⅞
	284T	65¾	17¾	28¾	61½	7¾	12¾
	286T	67¼	18⅞	29¾	62¾	7⅞	13½
	324TS	67¾	19⅞	30¾	62¾	8⅞	13⅞
	326TS	68¾	21¾	32¾	64¼	9⅞	14⅞
	364TS	68¾	21¼	32¼	64½	9¾	14¼
	365TS	69¾	22¼	33¼	65½	9¾	14¾
	404TS	71	23¾	34¾	66¾	10¾	15¾
	405TS	72½	24¾	35¾	67¾	10⅜	16⅞
33	254T	66¾	15¾	28¾	62½	5⅞	11⅞
	256T	68½	17¾	30½	64¼	6⅞	12⅞
	284T	69½	17¾	30½	64¾	6⅞	12¼
	286T	70½	18⅞	31¾	66¾	7⅞	13
	324T	72¼	19⅞	32¾	68	8⅞	13⅞
	326T	73¼	21¾	34¾	69½	8⅞	14⅞
	364TS	72½	21¼	34	67¾	8¾	13¾
	365TS	73½	22¼	35	68¾	9¾	14¼
	404TS	74¾	23¾	35¾	70¾	9⅞	14¾
	405TS	75¾	24¾	37¾	71¾	10⅞	15¾
33	444TS	79	27¼	40	74¾	11¾	17¼
	445TS	81	29¼	42	76¾	12¾	18¼
	447TS	84½	32¾	45½	80¼	14¾	19⅞

ARRANGEMENT 4/8							
Size	Frame size	H	N	O	S	SS	
		Arr. 8	Arr. 4	Arr. 4	Arr. 8	Arr. 4	
36	284T	72¾	17¾	31¾	67¾	6⅞	12¼
	286T	74¼	18⅞	32¾	69¾	7⅞	13
	324T	75¾	19¾	33¾	71	7⅞	13⅞
	326T	77¾	21¾	35½	72½	8⅞	14⅞
	364T	77¾	21¼	35	73	8¾	14⅞
	365T	78¾	22¼	36	74	9¾	15½
	404T	81	23¾	36¾	76½	9⅞	16¾
	405T	82½	24¾	38¾	77½	10⅞	17½
40	324T	83¼	19¾	34¾	77	7⅞	14⅞
	326T	84¾	21¾	36½	78½	8⅞	15¼
	364T	85¼	21¼	36	79	8¾	15¼
	365T	86¼	22¼	37	80	9¾	15⅞
	404T	87¾	23¾	37¾	82½	9⅞	16¾
	405T	89¾	24¾	39¾	83¾	10⅞	17¾
	444T	93¾	27¼	42	87½	11¾	19¼
	445T	95¾	29¼	44	89½	12¾	20¼
44	364T	90	21¼	37¾	83¾	8¾	15½
	365T	91	22¼	38¾	84¾	9¾	15⅞
	404T	93¾	23¾	39	86¼	9⅞	16¾
	405T	94¾	24¾	40½	87¾	10⅞	17½
	444T	98½	27¼	43¾	91¾	11¾	19¼
	445T	100½	29¼	45½	93¾	12¾	20¼
49	404T	97¾	23¾	41¾	90¾	9⅞	16¾
	405T	98¾	24¾	42¾	91¾	9⅞	17½
	444T	102½	27¼	45¼	95¾	11¾	19¼
	445T	104½	29¼	47¼	97¾	12¾	20¼
	447T	108	32¾	50¾	101¼	13¾	21⅞
54	444T	105¾	—	—	98¼	—	19¼
	445T	107¾	—	—	100¼	—	20¼
	447T	111¾	—	—	103¾	—	21⅞
60	444T	111¾	—	—	102¾	—	19¼
	445T	113¾	—	—	104¾	—	20¼
	447T	116¾	—	—	108¼	—	22½
66	444T	116	—	—	106¼	—	19¼
	445T	118	—	—	108¼	—	20¼
	447T	121½	—	—	111¾	—	22½
73	444T	121	—	—	111½	—	19¼
	445T	123	—	—	113½	—	20¼
	447T	126½	—	—	116¾	—	21⅞

NOTE: Arr. 8 pedestals are designed per job for non-NEMA frame size motors.

Tolerance: ± 1/8"

DRAWINGS

Dimensions not to be used for construction unless certified.

<p>ARRANGEMENT 1</p>	
<p>ARRANGEMENT 4</p>	
<p>ARRANGEMENT 8</p>	

M and D are outside housing dimensions. J is from housing side over inlet. L is inside diameter.

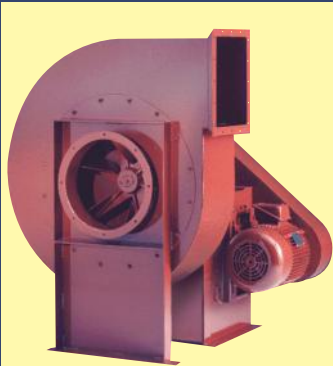
FAN DISCHARGES – VIEWED FROM DRIVE SIDE													
CLOCKWISE - ANGULAR DISCHARGES AT 45°						COUNTERCLOCKWISE - ANGULAR DISCHARGES AT 45°							

★ Down Blast and Top Angular Down discharge positions must be evaluated for clearance of accessories such as unitary base, etc. Consult **nyb** with specific details.

The New York Blower Company has a policy of continuous product development and reserves the right to change designs and specifications without notice.

COMPLETE SELECTION OF AIR-MOVING EQUIPMENT

The New York Blower Company offers thousands of different types, models, and sizes of air-moving equipment. Contact your nyb representative for assistance in identifying the best fan for your application.



DUST/MATERIAL HANDLING

Wide range of duty available with unique fan lines capable of handling light dust to heavy material. Typical applications include dust-collection and high-pressure process along with material-conveying.



AIR-HANDLING [CENTRIFUGAL]

Designed for clean to moderately dirty gas streams. Commercial and industrial HVAC, process cooling, light material-conveying, heat removal, and dryer exhaust are just a few of the numerous sample applications.



AIR-HANDLING [AXIAL]

For the ideal handling of clean to moderately dirty airstreams. Commercial and industrial HVAC, drying and cooling systems, fume extraction, and process-heat removal are typical applications.

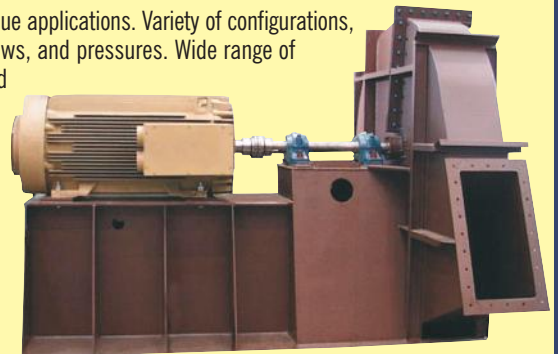


FIBERGLASS REINFORCED PLASTIC [FRP]

Choice of performance and duty for corrosive gas streams. Applications include chemical process, wastewater treatment, laboratory hood exhaust, and tank aeration.

CUSTOM PRODUCTS

Designed for unique applications. Variety of configurations, temperatures, flows, and pressures. Wide range of modifications and accessories are available to meet the most demanding specifications.



Leading the industry forward since 1889



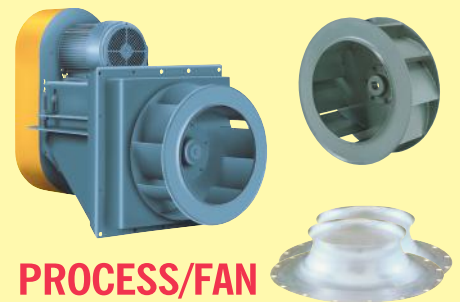
ROOF VENTILATORS

Including both hooded and upblast ventilators, propeller fans, and centrifugal roof exhausters. These units are ideal for industrial, commercial, and institutional applications.



HEATING PRODUCTS

Industrial-duty steam unit heaters with steam heating coils are available for facility heating and process-heat transfer.



PROCESS/FAN COMPONENTS

Plug fans, plenum fans, wheels, inlet cones, and housings for a wide variety of OEM applications. Process/fan components are used in air-handling units, ovens, dryers, freezer tunnels, and filtration systems.