

Bulletin
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AIRFOILFAN SINGLE INLET

FAN & BLOWER SYSTEM



주식회사 BnC



신뢰할 수 있는 기술과, 기본에 충실한 품질로
최고의 가치를 실현합니다.



Index

1.기술 현황

2.제품 특징

3.Performance

4.Out-line Drawing





ISO 9001:2008

ISO 9001 인증

ISO 9001은 국제 표준화기구 기술위원회에서 제정한 품질경영과 품질보증에 관한 일련의 국제규격입니다.

본 인증은 이 규격을 바탕으로 자사 체질에 맞는 품질경영 시스템을 수립하여 제 3 자 인증기관으로 부터 자사 품질경영 시스템의 적합성 및 실행 상태를 평가 받아 고객에게 신뢰할 수 있는 제품과 서비스를 공급하는 체제를 갖추어 운영하고 있다는 것을 보증하는 것으로 공급자 품질시스템에 대한 제 3 자 심사 및 등록제도입니다.



AMCA SEAL

AMCA 에서 승인된 Laboratory 에서 소음(dB)과 성능(풍량, 정압, 축동력)을 검증 하여 제품 카탈로그의 데이터를 보증해 주는 국제적으로 공신력이 있는 연구 기관의 인증서로 본지인 AIRFOIL 편흡입 벨트구동방식 전 제품에 부착됩니다.



고효율기자재

고효율 기자재 인증

고효율 기자재란. 고효율시험기관에서 측정한 에너지 소비효율 및 품질시험 결과 전 항목을 만족하고 에너지 관리공단에서 고효율 에너지 기자재로 인증 받은 제품입니다.

BnC 인증 제품 (2016 년 02월 현재)

BFD-0450 (# 3 DS) BFS-0450 (# 3 SS)

BFD-0900 (# 6 DS) BFS-0900 (# 6 SS)



한국설비기술협회(KARSE) 단체표준 인증

KARSE 인증은 설비기자재의 성능보증 체계 구축을 통한 고품질 기자재 보급 유도과 이를 통한 소비자의 신뢰 확보, 건설시장 질서유지, 전문업체 육성을 목적으로 하고 있습니다.

강한 내구성과 높은 효율, 저소음을 실현한 BnC Airfoil Fan

AIRFOIL FAN SISW

고효율, 저소음, 低에너지, 강한 내구성

Airfoil 형상의 익형 Blade 적용으로 작은 동력으로 효율이 높고, 운전 소음이 낮은 송풍기입니다.

유선형의 Inlet Cone 과 Wheel cone 사용으로 최적의 기류를 형성합니다.

견고한 용접구조와 엄선한 볼 및 롤러 베어링을 사용하여 장시간 연속 운전에도 신뢰성이 높은 운전이 가능합니다

Wheel Dia. 300~2,000 mm

(m ³ /min)	(m/s)	(mmAq)
30	5	20
~	~	~
7,200	30	420



뛰어난 성능의 WHEEL



상/하 익형 적용으로 최상의 기류를 형성 합니다.

이상적인 블레이드의 배치로, 회전 시 와류 현상 및 소음의 최소 화를 실현하였습니다.



스피닝된 유선형의 Wheel Cone 및 Inlet Cone 의 적용으로 보다 높은 효율과 안정적인 기류공급이 되도록 제작 되었습니다.

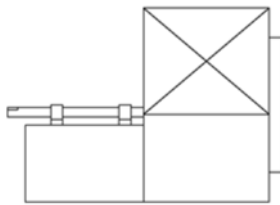


검증된 성능

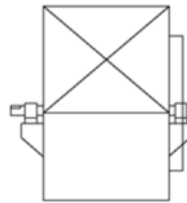
BnC Company Limited certifies that the BFS Airfoil Fan Single Inlet shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



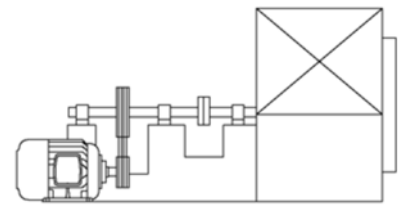
다양한 호환성



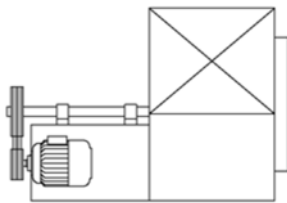
Arrangement-1



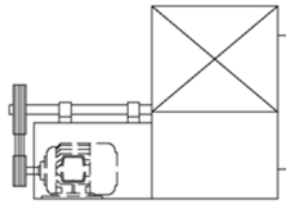
Arrangement-3



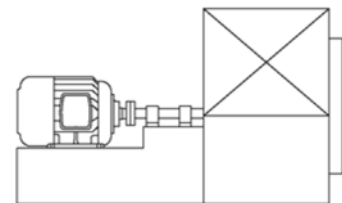
Arrangement-8 (Belt Drive)



Arrangement-9



Arrangement-10



Arrangement-8 (Direct Drive)

배 열 (ARRANGEMENTS)

- 송풍기의 배열은 A/# 또는 Arrgt.#로 약칭된 숫자로 지정합니다.

다양한 Accessory



Damper



Shaft Cooling Wheel



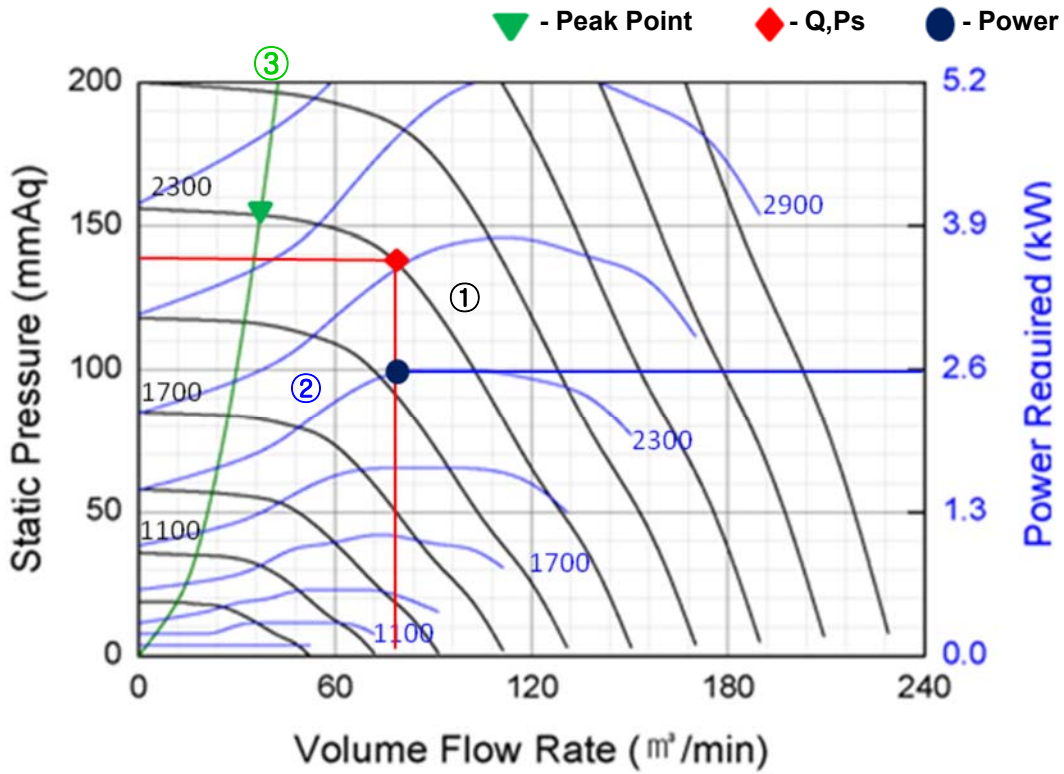
Safety Cover

팬 선정방법 (Fan Selection Guide)

각 페이지는 하나의 팬 구격에 대한 모든 성능, 정압, 동력, 소음 등의 데이터가 수록 되어 있습니다.
그림-1 은 BFS-0450 (# 3 SS) 의 성능 곡선의 표시방법에 대한 설명 입니다.

※ 풍량 : 80 CMM, 정압 : 140 mmAq

1. (흑색) - 제품의 2,300 RPM 회전 시 시스템커브를 표기 합니다.
2. (청색) - 제품의 2,300 RPM 회전 시 축 동력을 표기 합니다.
3. (녹색) - 각 시스템커브의 최대 사용가능 정압 범위를 표기합니다.



< 그림 - 1 >

Symbols and subscripts

2300 RPM	Q	Pt	Ps	S.Pow	ST.Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
	107	98	92	2.6	60.9	64.9	96
	94	122	117	2.6	68.0	70.7	95
	78	144	141	2.6	68.9	70.5	94
	64	150	148	2.4	65.3	66.3	94
50	153	152	2.1	59.8	60.3	94	

- Q - Air Volume (m³/min)
- Pt - Total Pressure (mmAq)
- Ps - Static Pressure (mmAq)
- S.Pow - Shaft Power (kW)
- ST.Eff. - Static Efficiency (%)
- Total Eff. - Total Efficiency (%)
- LwiA - Sound Power Level (dBA)

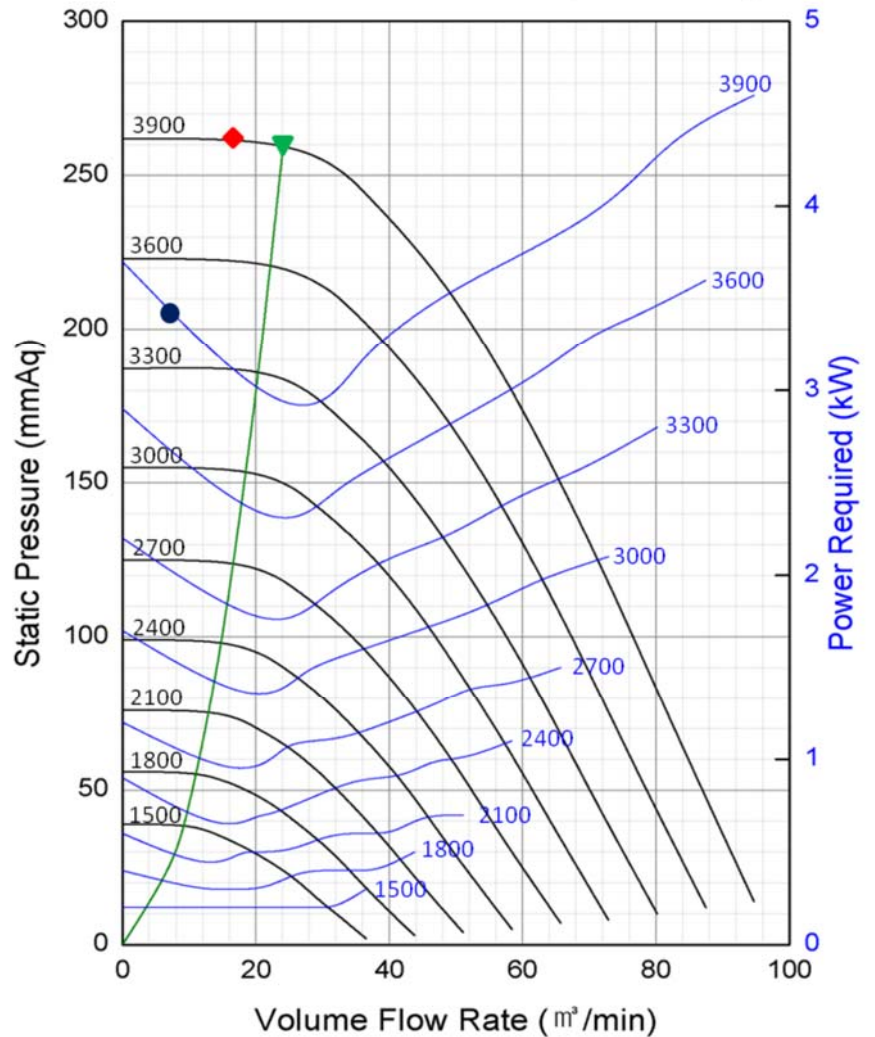
BFS-0315 (# 2 SS)



**Belt-driven, Single-Inlet
Airfoil Blade**



▼ - Peak Point ◆ - Q,Ps ● - Power



System range. (Maximum REV./Min)
 Class- = 4,046 RPM
 Class- = 4,218 RPM
 Impeller Diameter : 336 mm.
 Outlet Area. : 0.084 m².

RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
1800 RPM	31	32	30	0.4	39.7	42.8	100
	27	41	39	0.4	46.9	48.9	100
	22	48	47	0.3	48.7	49.8	100
	17	53	52	0.3	44.7	45.3	100
	15	54	53	0.3	45.1	45.5	100
2400 RPM	42	57	53	0.9	39.7	42.8	106
	35	72	69	0.9	46.9	48.9	105
	29	85	83	0.8	48.7	49.8	105
	22	94	93	0.7	44.7	45.3	105
	20	96	95	0.7	45.1	45.5	105
3000 RPM	53	89	82	1.8	39.7	42.8	118
	44	113	109	1.7	46.9	48.9	118
	36	133	130	1.6	48.7	49.8	118
	28	147	145	1.5	44.7	45.3	118
	25	150	149	1.4	45.1	45.5	118

RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
2100 RPM	37	43	40	0.6	39.7	42.8	103
	31	55	53	0.6	46.9	48.9	102
	25	65	64	0.5	48.7	49.8	102
	19	72	71	0.5	44.7	45.3	102
	18	73	73	0.5	45.1	45.5	102
2700 RPM	47	72	67	1.3	39.7	42.8	109
	40	92	88	1.2	46.9	48.9	109
	32	108	105	1.1	48.7	49.8	109
	25	119	117	1.1	44.7	45.3	109
	23	122	120	1.0	45.1	45.5	109
3300 RPM	58	107	100	2.4	39.7	42.8	114
	49	137	131	2.2	46.9	48.9	114
	40	161	157	2.1	48.7	49.8	114
	31	177	175	1.9	44.7	45.3	114
	28	182	180	1.8	45.1	45.5	114

※ Power rating (kW) does not include transmission losses.

Performance ratings do not include the effects of appurtenances (accessories).

Values shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301

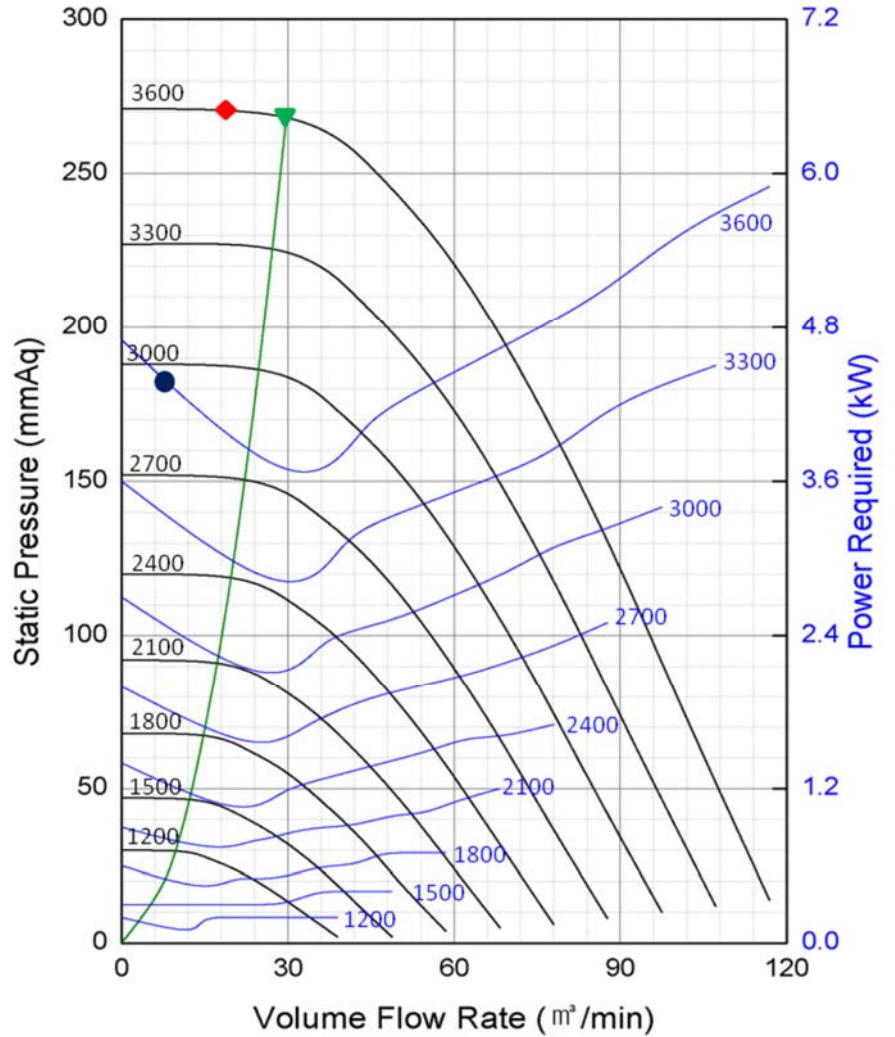
BFS-0355 (# 2 1/2 SS)



Belt-driven, Single-Inlet Airfoil Blade



▼ - Peak Point ◆ - Q,P_s ● - Power



System range.(Maximum REV./Min)
 Class- = 3,675 RPM
 Class- = 3,884 RPM
 Impeller Diameter : 370 mm.
 Outlet Area. : 0.102 m²

RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
1500 RPM	35	27	25	0.4	39.7	42.8	100
	30	34	33	0.3	46.9	48.9	100
	24	40	39	0.3	48.7	49.8	100
	19	44	44	0.3	44.7	45.3	100
	17	45	45	0.3	45.1	45.5	100
2100 RPM	49	53	49	1.0	39.7	42.8	106
	41	67	64	0.9	46.9	48.9	105
	34	79	77	0.9	48.7	49.8	105
	26	87	86	0.8	44.7	45.3	105
	24	89	88	0.8	45.1	45.5	105
2700 RPM	63	87	81	2.1	39.7	42.8	112
	53	111	107	2.0	46.9	48.9	112
	43	131	128	1.9	48.7	49.8	112
	33	144	142	1.7	44.7	45.3	112
	30	148	146	1.6	45.1	45.5	112

RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
1800 RPM	42	39	36	0.6	39.7	42.8	103
	35	49	47	0.6	46.9	48.9	103
	29	58	57	0.5	48.7	49.8	103
	22	64	63	0.5	44.7	45.3	103
	20	66	65	0.5	45.1	45.5	103
2400 RPM	56	69	64	1.5	39.7	42.8	108
	47	88	84	1.4	46.9	48.9	108
	39	103	101	1.3	48.7	49.8	108
	30	114	112	1.2	44.7	45.3	108
	27	117	115	1.1	45.1	45.5	108
3000 RPM	70	108	100	2.9	39.7	42.8	115
	59	137	132	2.7	46.9	48.9	115
	48	161	158	2.5	48.7	49.8	115
	37	178	176	2.4	44.7	45.3	115
	34	182	181	2.2	45.1	45.5	115

※ Power rating (kW) does not include transmission losses.

Performance ratings do not include the effects of appurtenances (accessories).

Values shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301

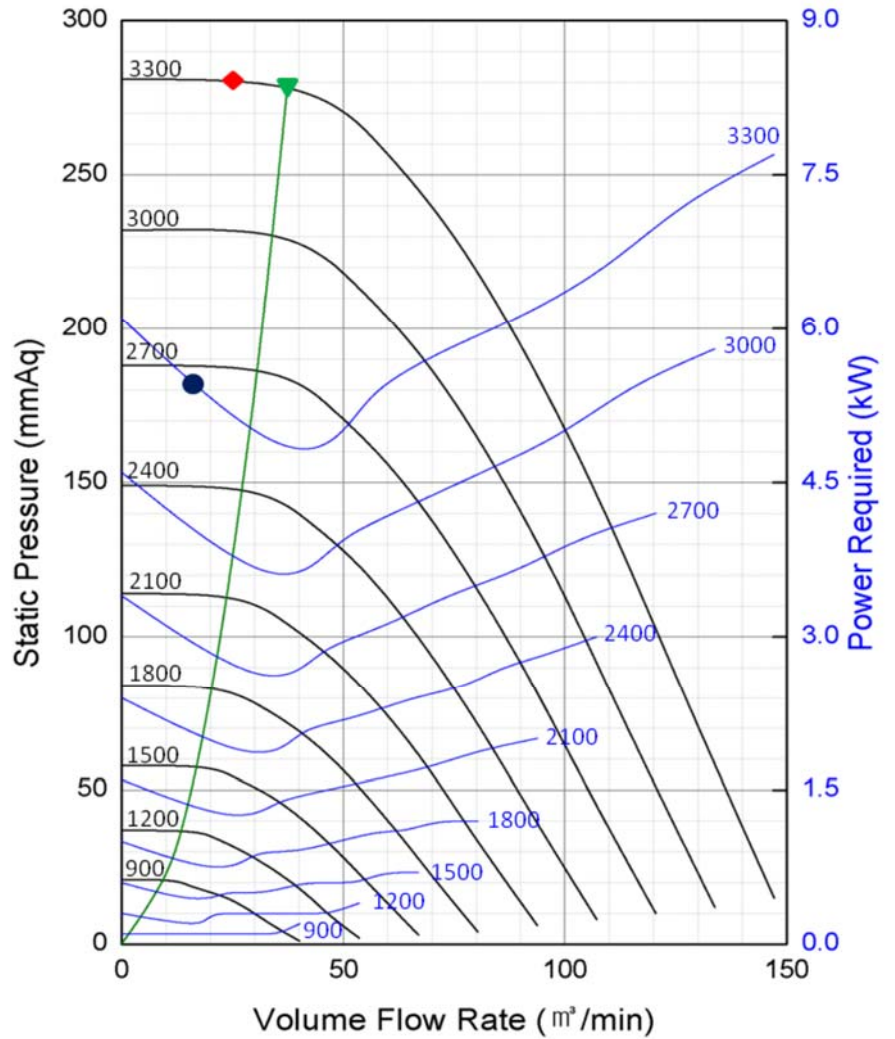
BFS-0400 (# 2 3/4 SS)



Belt-driven, Single-Inlet Airfoil Blade



▼ - Peak Point ◆ - Q,Ps ● - Power



System range.(Maximum REV./Min)
 Class- = 3,302 RPM
 Class- = 3,586 RPM
 Impeller Diameter : 411 mm.
 Outlet Area. : 0.125 m²

RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
1500 RPM	48	33	31	0.6	39.7	42.8	103
	41	42	41	0.6	46.9	48.9	103
	33	50	49	0.5	48.7	49.8	103
	25	55	54	0.5	44.7	45.3	103
	23	56	56	0.5	45.1	45.5	103
2100 RPM	67	65	60	1.7	39.7	42.8	109
	57	83	80	1.6	46.9	48.9	109
	46	98	95	1.5	48.7	49.8	109
	36	107	106	1.4	44.7	45.3	109
	32	110	109	1.3	45.1	45.5	109
2700 RPM	87	108	100	3.6	39.7	42.8	115
	73	137	132	3.3	46.9	48.9	115
	60	161	158	3.1	48.7	49.8	115
	46	178	176	2.9	44.7	45.3	115
	42	182	181	2.7	45.1	45.5	115

RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
1800 RPM	58	48	44	1.1	39.7	42.8	106
	49	61	58	1.0	46.9	48.9	106
	40	72	70	0.9	48.7	49.8	106
	30	79	78	0.9	44.7	45.3	106
	28	81	80	0.8	45.1	45.5	106
2400 RPM	77	85	79	2.5	39.7	42.8	112
	65	108	104	2.4	46.9	48.9	112
	53	127	125	2.2	48.7	49.8	112
	41	140	139	2.1	44.7	45.3	112
	37	144	143	1.9	45.1	45.5	112
3000 RPM	96	133	124	4.9	39.7	42.8	118
	81	170	163	4.6	46.9	48.9	118
	66	200	195	4.3	48.7	49.8	118
	51	220	217	4.0	44.7	45.3	118
	46	225	223	3.7	45.1	45.5	118

※ Power rating (kW) does not include transmission losses.

Performance ratings do not include the effects of appurtenances (accessories).

Values shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301

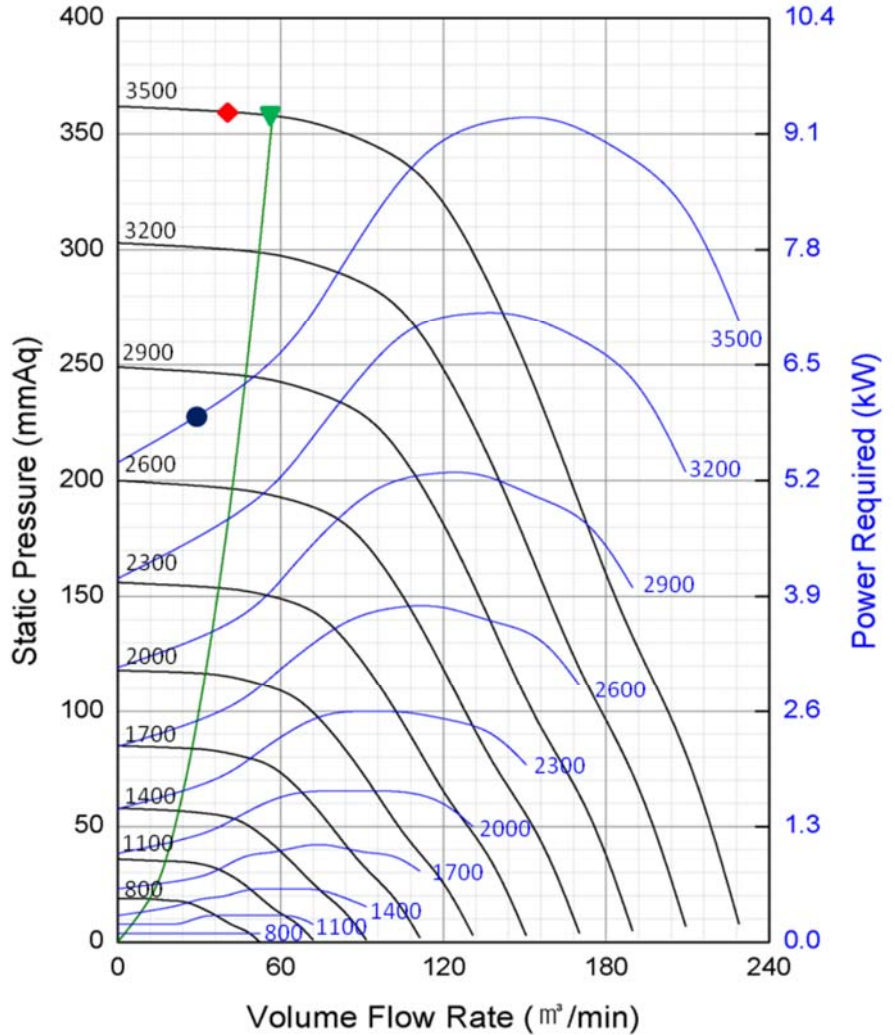
BFS-0450 (# 3 SS)



Belt-driven, Single-Inlet Airfoil Blade



▼ - Peak Point ◆ - Q,Ps ● - Power



System range.(Maximum REV./Min)
 Class- = 2,992 RPM
 Class- = 3,509 RPM
 Impeller Diameter : 452 mm.
 Outlet Area. : 0.151 m²

RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
1400 RPM	65	36	34	0.6	60.9	64.9	83
	57	45	43	0.6	68.0	70.7	82
	47	53	52	0.6	68.9	70.5	81
	39	55	55	0.5	65.3	66.3	81
	30	57	56	0.5	59.8	60.3	81
2000 RPM	93	74	69	1.7	60.9	64.9	92
	81	92	88	1.7	68.0	70.7	91
	67	109	106	1.7	68.9	70.5	90
	56	113	111	1.6	65.3	66.3	90
	43	116	115	1.4	59.8	60.3	90
2600 RPM	121	125	117	3.8	60.9	64.9	99
	106	156	150	3.8	68.0	70.7	98
	88	184	180	3.7	68.9	70.5	97
	73	192	189	3.4	65.3	66.3	97
	57	196	194	3.0	59.8	60.3	97

RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
1700 RPM	79	53	50	1.1	60.9	64.9	88
	69	66	64	1.1	68.0	70.7	87
	57	78	77	1.0	68.9	70.5	86
	47	82	80	1.0	65.3	66.3	86
	37	84	83	0.8	59.8	60.3	86
2300 RPM	107	98	92	2.6	60.9	64.9	96
	94	122	117	2.6	68.0	70.7	95
	78	144	141	2.6	68.9	70.5	94
	64	150	148	2.4	65.3	66.3	94
	50	153	152	2.1	59.8	60.3	94
2900 RPM	135	156	146	5.3	60.9	64.9	101
	118	194	187	5.3	68.0	70.7	100
	98	229	224	5.2	68.9	70.5	100
	81	239	235	4.8	65.3	66.3	99
	63	244	242	4.2	59.8	60.3	99

※ Power rating (kW) does not include transmission losses.

Performance ratings do not include the effects of appurtenances (accessories).

Values shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301

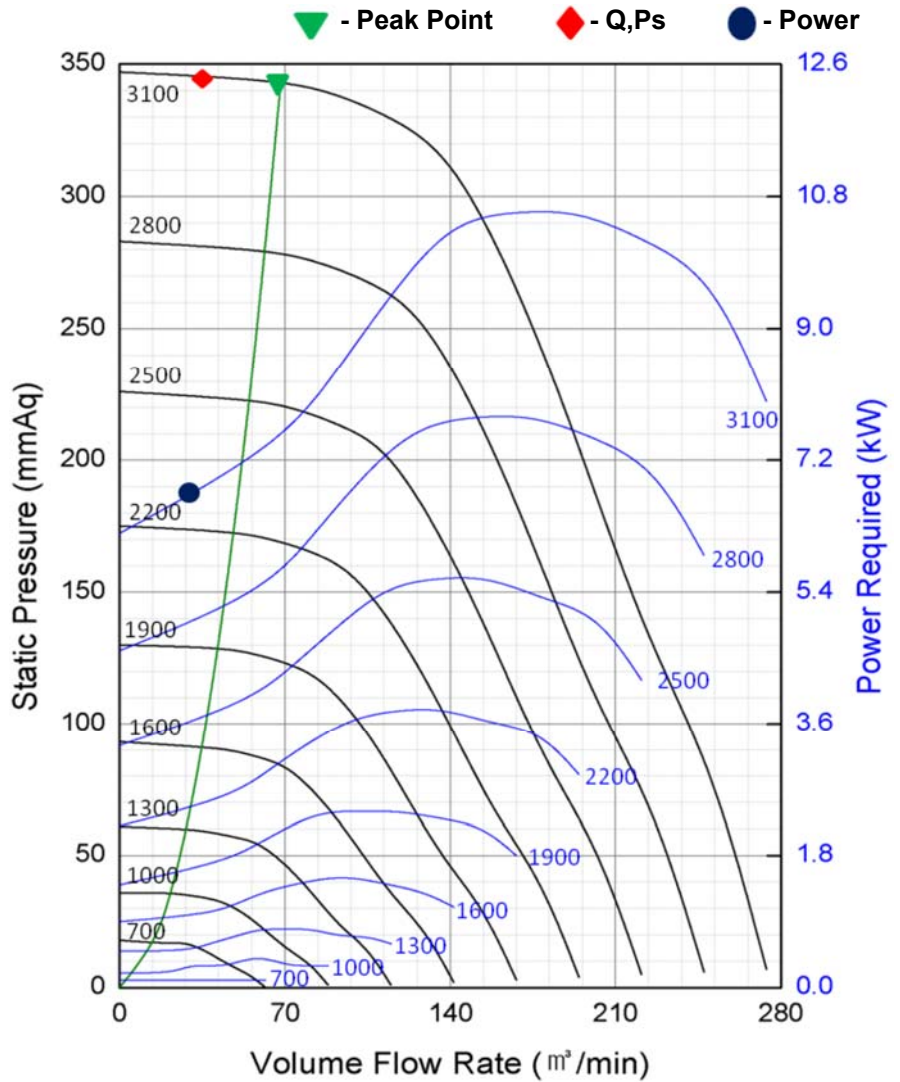
BFS-0500 (# 3 1/2 SS)



Belt-driven, Single-Inlet Airfoil Blade



System range.(Maximum REV./Min)
 Class- = 2,706 RPM
 Class- = 3,173 RPM
 Impeller Diameter : 500 mm.
 Outlet Area. : 0.184 m²



1300 RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBa.
	81	38	36	0.8	60.9	64.9	84
	71	47	46	0.8	68.0	70.7	83
	59	56	55	0.8	68.9	70.5	83
	49	58	57	0.7	65.3	66.3	82
	38	60	59	0.6	59.8	60.3	82

1600 RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBa.
	100	58	54	1.5	60.9	64.9	90
	88	72	69	1.5	68.0	70.7	89
	73	85	83	1.4	68.9	70.5	88
	60	88	87	1.3	65.3	66.3	88
	47	90	90	1.1	59.8	60.3	88

1900 RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBa.
	119	81	76	2.4	60.9	64.9	94
	104	101	98	2.4	68.0	70.7	93
	86	120	117	2.4	68.9	70.5	92
	72	125	123	2.2	65.3	66.3	92
	56	128	127	1.9	59.8	60.3	92

2200 RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBa.
	138	109	103	3.8	60.9	64.9	98
	121	136	131	3.8	68.0	70.7	97
	100	161	157	3.7	68.9	70.5	96
	83	167	165	3.4	65.3	66.3	96
	65	171	170	3.0	59.8	60.3	96

2500 RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBa.
	157	141	133	5.6	60.9	64.9	101
	138	176	169	5.6	68.0	70.7	100
	114	208	203	5.5	68.9	70.5	99
	95	217	213	5.0	65.3	66.3	99
	74	222	220	4.4	59.8	60.3	99

2800 RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBa.
	176	177	166	7.8	60.9	64.9	104
	154	221	213	7.8	68.0	70.7	103
	128	261	256	7.7	68.9	70.5	102
	106	272	268	7.1	65.3	66.3	102
	82	278	276	6.2	59.8	60.3	102

※ Power rating (kW) does not include transmission losses.
 Performance ratings do not include the effects of appurtenances (accessories).
 Values shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301

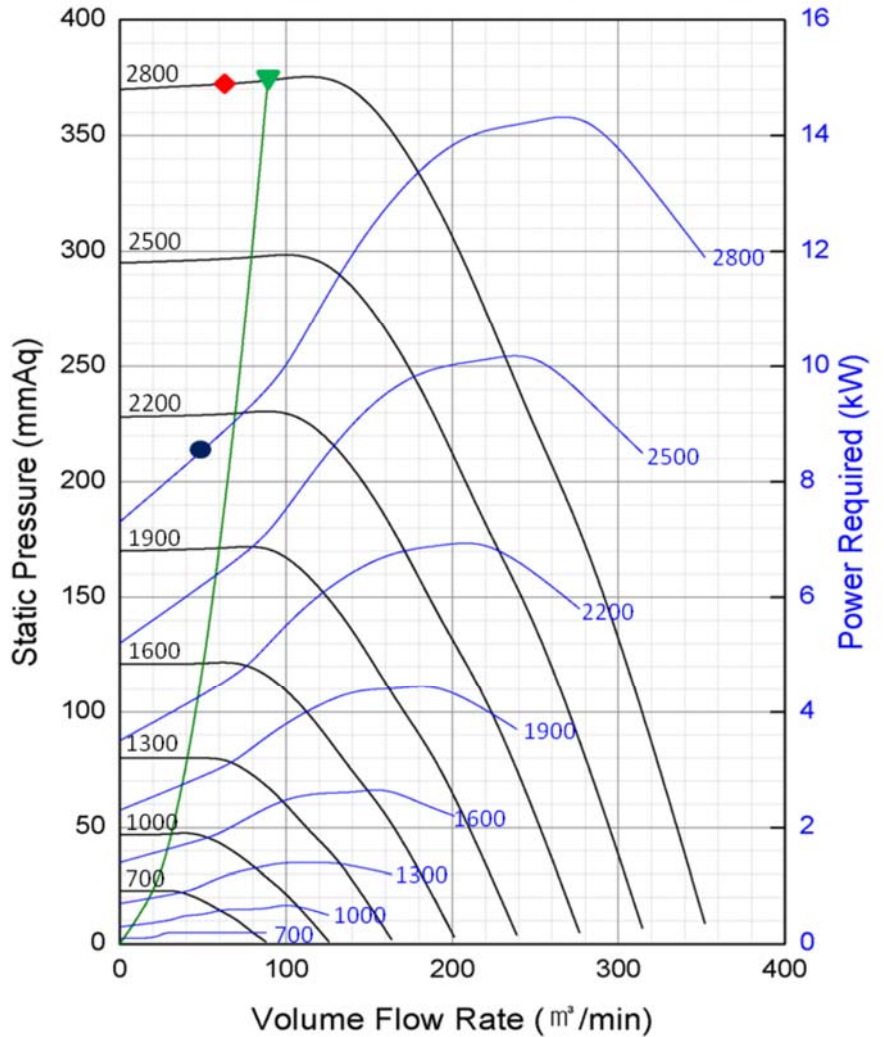
BFS-0560 (# 3 3/4 SS)



Belt-driven, Single-Inlet Airfoil Blade



▼ - Peak Point ◆ - Q,Ps ● - Power



System range.(Maximum REV./Min)
 Class- = 2,469 RPM
 Class- = 2,895 RPM
 Impeller Diameter : 548 mm.
 Outlet Area. : 0.222 m²

RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
1000 RPM	88	31	29	0.6	63.5	69.3	80
	74	39	37	0.6	70.9	74.5	80
	62	45	43	0.6	72.7	74.9	79
	49	48	47	0.5	70.3	71.5	79
	38	48	48	0.5	62.9	63.6	79
1600 RPM	141	80	73	2.6	63.5	69.3	92
	119	100	95	2.6	70.9	74.5	92
	99	114	111	2.5	72.7	74.9	92
	79	124	121	2.2	70.3	71.5	92
	61	123	122	1.9	62.9	63.6	92
2200 RPM	194	151	138	6.9	63.5	69.3	100
	164	190	181	6.8	70.9	74.5	99
	137	217	211	6.4	72.7	74.9	99
	109	234	230	5.8	70.3	71.5	99
	83	234	231	5.0	62.9	63.6	99

RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
1300 RPM	114	53	48	1.4	63.5	69.3	86
	97	66	63	1.4	70.9	74.5	86
	80	75	73	1.3	72.7	74.9	86
	64	81	80	1.2	70.3	71.5	86
	49	81	80	1.0	62.9	63.6	86
1900 RPM	168	113	103	4.4	63.5	69.3	96
	142	142	135	4.4	70.9	74.5	96
	118	162	157	4.1	72.7	74.9	96
	94	175	172	3.7	70.3	71.5	96
	72	174	172	3.2	62.9	63.6	96
2500 RPM	221	196	179	10.1	63.5	69.3	103
	187	246	234	10.0	70.9	74.5	103
	156	281	273	9.5	72.7	74.9	103
	124	303	298	8.5	70.3	71.5	103
	95	302	299	7.3	62.9	63.6	103

※ Power rating (kW) does not include transmission losses.

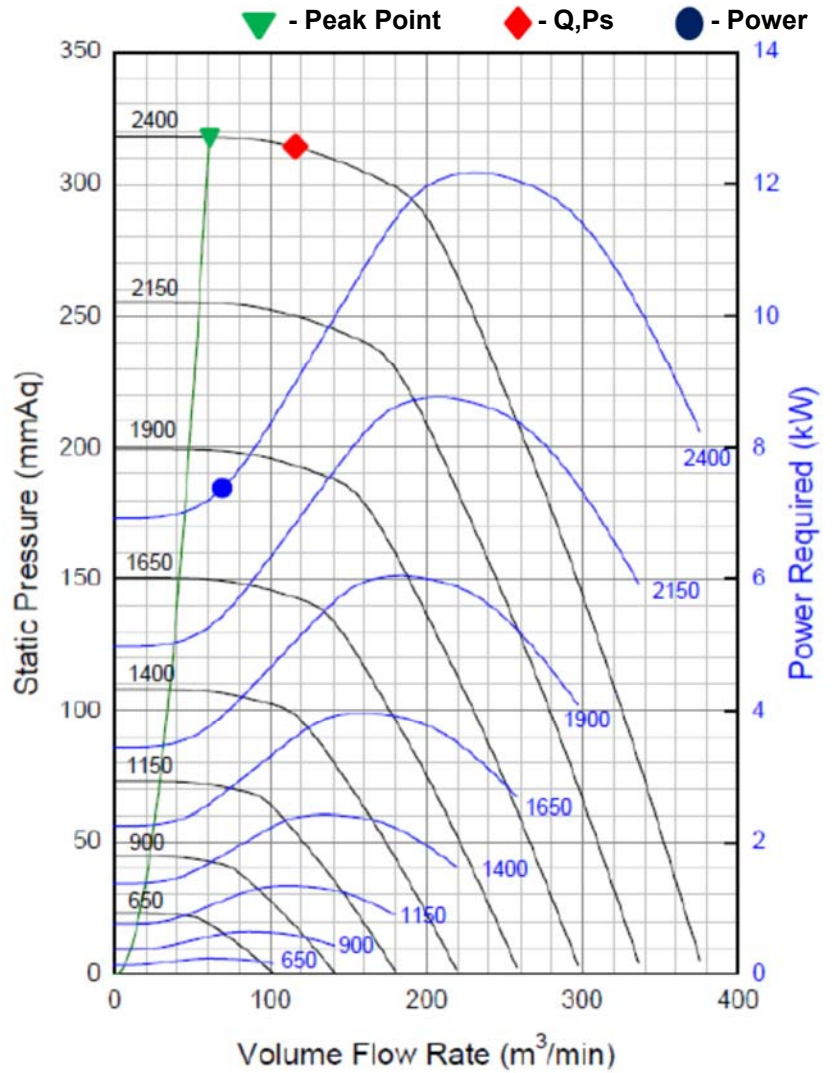
Performance ratings do not include the effects of appurtenances (accessories).

Values shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301

BFS-0630 (# 4 SS)



**Belt-driven, Single-Inlet
Airfoil Blade**



System range.(Maximum REV./Min)
 Class- = 2,155 RPM
 Class- = 2,483 RPM
 Impeller Diameter : 610 mm.
 Outlet Area. : 0.276 m²

900 RPM	Q	Pt	Ps	S.Pow	ST.Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBa
	91	34.3	32	0.7	75.3	79.5	75
	85	37.2	35	0.7	77.3	80.8	75
	74	42.5	41	0.7	78.5	80.7	75
	65	43.2	42	0.6	75.4	77.0	75
	52	44.2	43	0.6	71.1	72.0	75

1150 RPM	Q	Pt	Ps	S.Pow	ST.Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBa
	116	56	52	1.4	75.3	79.5	81
	109	60.8	58	1.4	77.3	80.8	81
	94	69.4	67	1.4	78.5	80.7	81
	83	70.5	69	1.3	75.4	77.0	81
	67	72.1	71	1.1	71.1	72.0	81

1400 RPM	Q	Pt	Ps	S.Pow	ST.Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBa
	142	83.0	78	2.5	75.3	79.5	86
	133	90.1	86	2.5	77.3	80.8	87
	115	102.9	99	2.4	78.5	80.7	87
	101	104.6	102	2.3	75.4	77.0	87
	81	106.9	105	2.0	71.1	72.0	87

1650 RPM	Q	Pt	Ps	S.Pow	ST.Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBa
	167	115.3	109	4.0	75.3	79.5	91
	157	125.2	119	4.0	77.3	80.8	91
	135	143.0	138	4.0	78.5	80.7	92
	119	145.2	142	3.7	75.4	77.0	92
	96	148.6	146	3.3	71.1	72.0	93

1900 RPM	Q	Pt	Ps	S.Pow	ST.Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBa
	193	152.9	144	6.1	75.3	79.5	93
	181	166.1	158	6.1	77.3	80.8	93
	156	189.6	184	6.0	78.5	80.7	93
	138	192.6	188	5.7	75.4	77.0	93
	111	197.0	194	5.0	71.1	72.0	93

2150 RPM	Q	Pt	Ps	S.Pow	ST.Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBa
	218	195.8	185	8.8	75.3	79.5	96
	205	212.7	203	8.8	77.3	80.8	96
	177	242.8	235	8.7	78.5	80.7	96
	156	246.6	241	8.2	75.4	77.0	96
	125	252.3	248	7.2	71.1	72.0	96

※ Power rating (kW) does not include transmission losses.

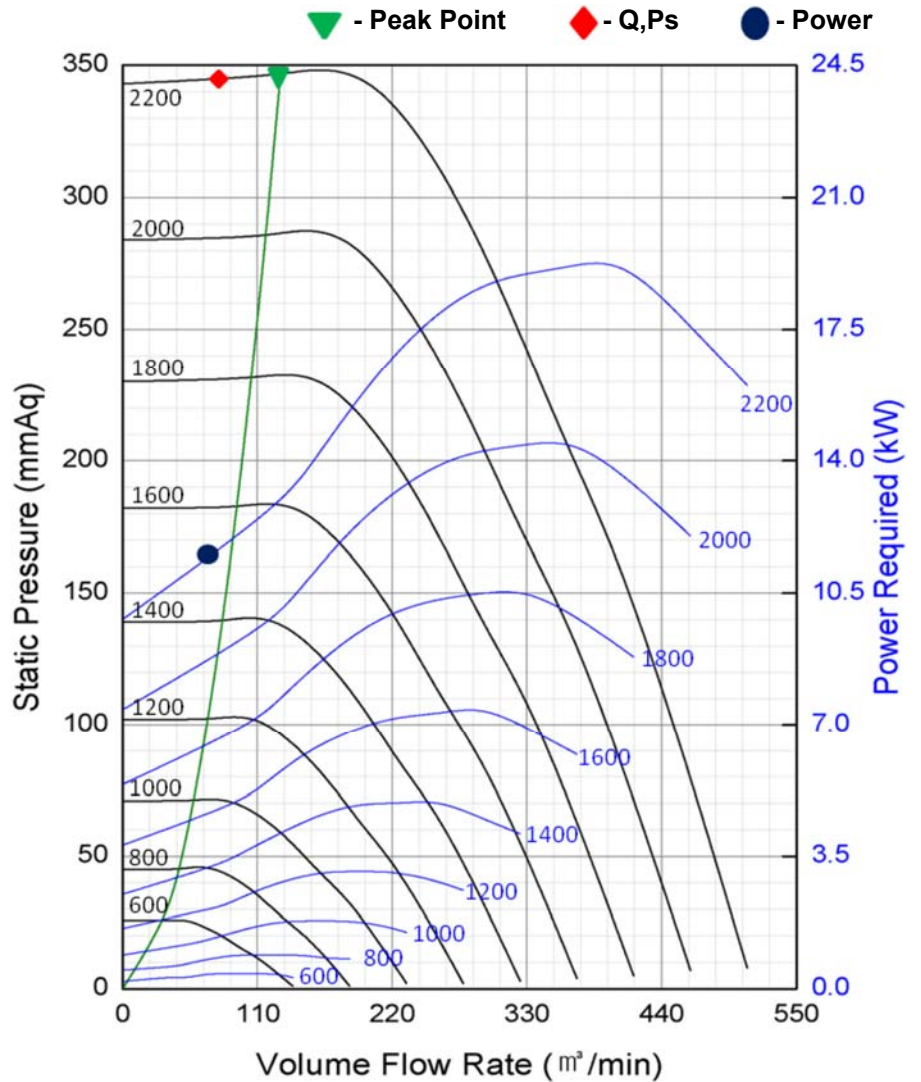
Performance ratings do not include the effects of appurtenances (accessories).

Values shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301

BFS-0680 (# 4 1/2 SS)



Belt-driven, Single-Inlet Airfoil Blade



System range. (Maximum REV./Min)
 Class- = 2,015 RPM
 Class- = 2,300 RPM
 Class- = 2,643 RPM
 Impeller Diameter : 672 mm.
 Outlet Area. : 0.333 m²

1000 RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
	162	47	43	1.8	63.5	69.3	86
	137	59	56	1.8	70.9	74.5	86
	114	67	65	1.7	72.7	74.9	86
	91	72	71	1.5	70.3	71.5	86
	70	72	72	1.3	62.9	63.6	86

1400 RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
	227	92	84	4.9	63.5	69.3	95
	192	115	110	4.9	70.9	74.5	94
	160	132	128	4.6	72.7	74.9	94
	127	142	140	4.1	70.3	71.5	95
	98	142	141	3.6	62.9	63.6	95

1800 RPM	Q	Pt	Ps	Shaft	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	PW(kW)	(%)	Eff.(%)	dBA.
	293	152	139	10.5	63.5	69.3	101
	248	191	182	10.3	70.9	74.5	101
	206	218	212	9.8	72.7	74.9	101
	164	236	232	8.8	70.3	71.5	101
	126	235	233	7.6	62.9	63.6	101

1200 RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
	195	67	62	3.1	63.5	69.3	90
	165	85	81	3.1	70.9	74.5	90
	137	97	94	2.9	72.7	74.9	90
	109	104	103	2.6	70.3	71.5	90
	84	104	103	2.2	62.9	63.6	90

1600 RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
	260	120	110	7.3	63.5	69.3	98
	220	151	144	7.2	70.9	74.5	98
	183	172	167	6.8	72.7	74.9	98
	146	186	183	6.2	70.3	71.5	98
	112	186	184	5.3	62.9	63.6	98

2000 RPM	Q	Pt	Ps	Shaft	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	PW(kW)	(%)	Eff.(%)	dBA.
	326	188	172	14.4	63.5	69.3	103
	275	236	225	14.2	70.9	74.5	103
	229	270	262	13.4	72.7	74.9	103
	183	292	287	12.1	70.3	71.5	103
	140	291	288	10.4	62.9	63.6	103

※ Power rating (kW) does not include transmission losses.

Performance ratings do not include the effects of appurtenances (accessories).

Values shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301

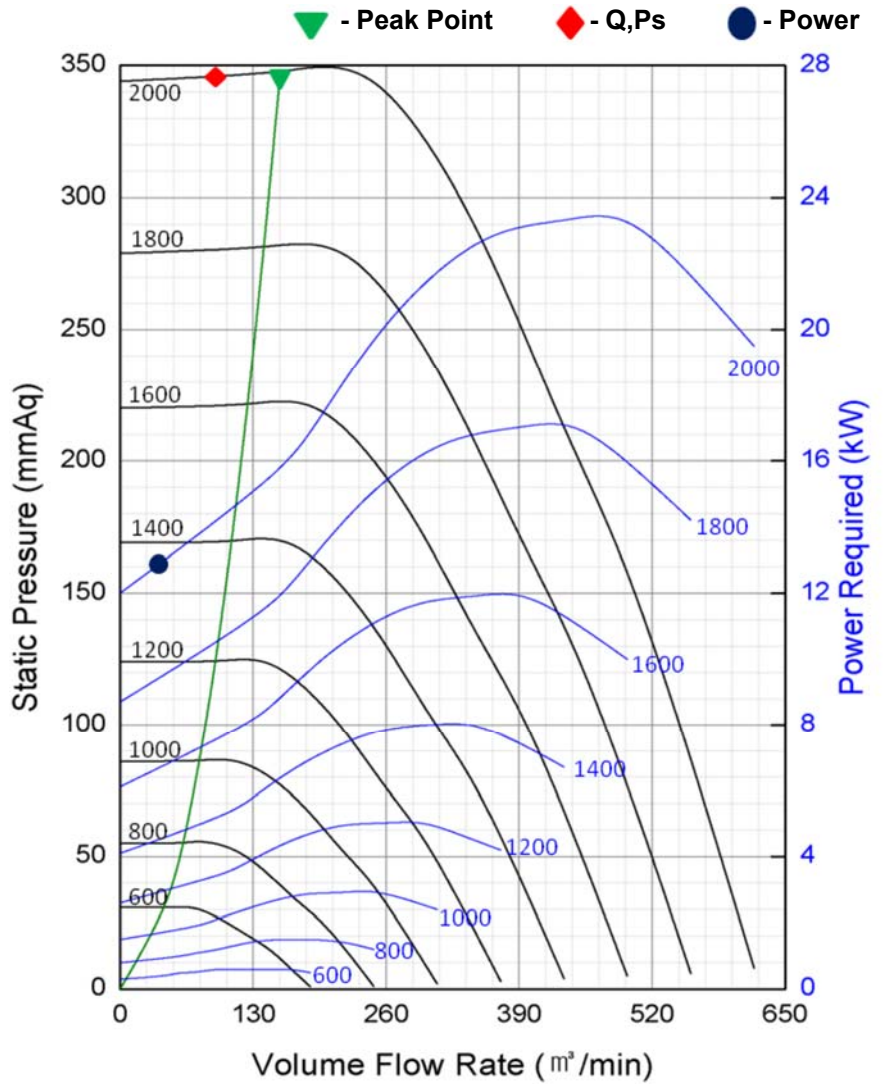
BFS-0710 (# 5 SS)



Belt-driven, Single-Inlet Airfoil Blade



System range.(Maximum REV./Min)
 Class- = 1,829 RPM
 Class- = 2,087 RPM
 Class- = 2,398 RPM
 Impeller Diameter : 740 mm.
 Outlet Area. : 0.405 m²



RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
800 RPM	173	36	33	1.5	63.5	69.3	83
	147	46	43	1.5	70.9	74.5	83
	122	52	51	1.4	72.7	74.9	83
	97	56	55	1.2	70.3	71.5	83
	74	56	56	1.1	62.9	63.6	83
1200 RPM	260	82	75	5.0	63.5	69.3	93
	220	103	98	5.0	70.9	74.5	93
	183	117	114	4.7	72.7	74.9	93
	146	127	125	4.2	70.3	71.5	93
	112	127	125	3.6	62.9	63.6	93
1600 RPM	348	146	134	11.9	63.5	69.3	101
	294	183	175	11.8	70.9	74.5	101
	245	209	203	11.1	72.7	74.9	101
	195	226	222	10.0	70.3	71.5	101
	150	226	223	8.6	62.9	63.6	101

RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
1000 RPM	217	57	52	2.9	63.5	69.3	89
	183	71	68	2.9	70.9	74.5	89
	152	82	79	2.7	72.7	74.9	89
	122	88	86	2.4	70.3	71.5	89
	93	88	87	2.1	62.9	63.6	89
1400 RPM	304	112	102	8.0	63.5	69.3	97
	257	140	133	7.9	70.9	74.5	97
	214	160	155	7.4	72.7	74.9	97
	171	173	170	6.7	70.3	71.5	97
	131	172	171	5.8	62.9	63.6	97
1800 RPM	392	185	169	17.0	63.5	69.3	104
	331	232	221	16.8	70.9	74.5	104
	276	266	258	15.9	72.7	74.9	104
	220	287	282	14.3	70.3	71.5	104
	169	286	283	12.3	62.9	63.6	104

※ Power rating (kW) does not include transmission losses.

Performance ratings do not include the effects of appurtenances (accessories).

Values shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301

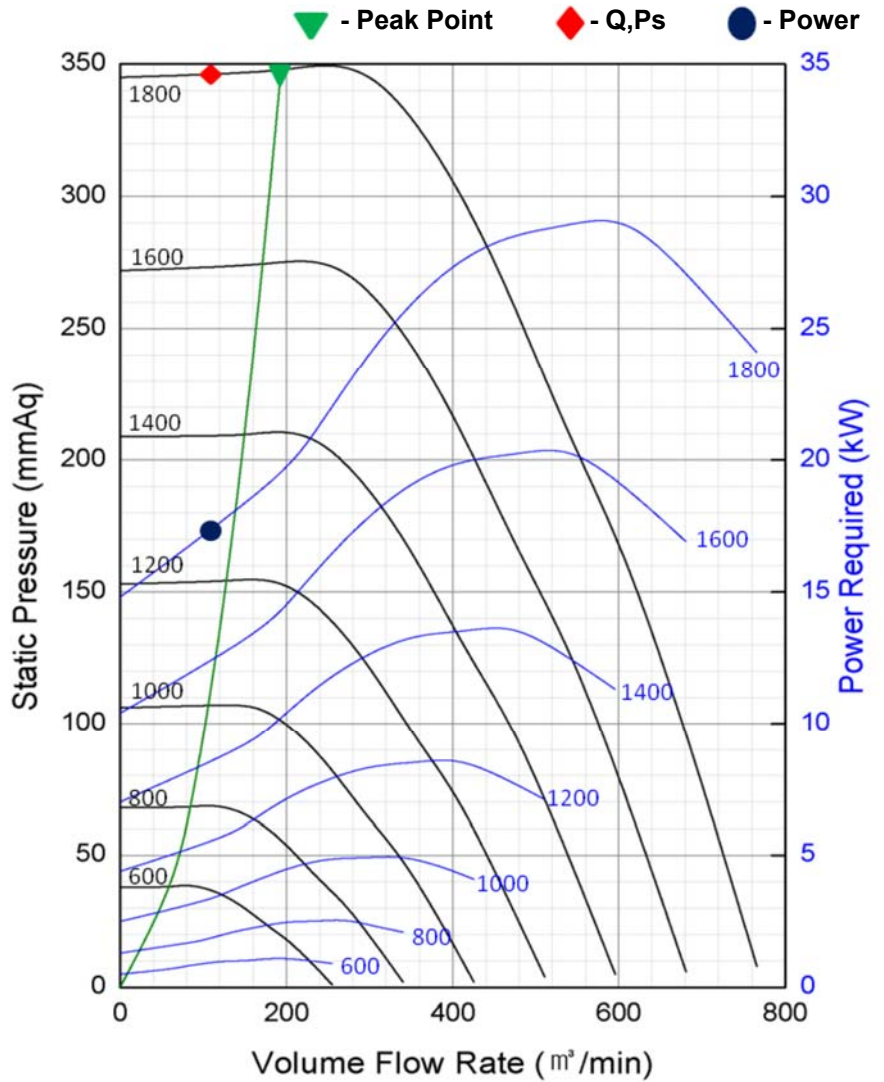
BFS-0800 (# 5 1/2 SS)



**Belt-driven, Single-Inlet
Airfoil Blade**



System range.(Maximum REV./Min)
 Class- = 1,647 RPM
 Class- = 1,807 RPM
 Class- = 2,115 RPM
 Impeller Diameter : 822 mm.
 Outlet Area. : 0.497 m²



800 RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
	238	45	41	2.5	63.5	69.3	86
	201	56	54	2.5	70.9	74.5	86
	167	64	63	2.3	72.7	74.9	86
	133	70	68	2.1	70.3	71.5	86
	102	69	69	1.8	62.9	63.6	86

1200 RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
	358	101	93	8.5	63.5	69.3	97
	303	127	121	8.4	70.9	74.5	97
	252	145	141	7.9	72.7	74.9	96
	201	157	154	7.2	70.3	71.5	96
	154	156	155	6.2	62.9	63.6	96

1600 RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
	478	180	165	20.2	63.5	69.3	104
	405	227	216	20.0	70.9	74.5	104
	337	259	252	18.9	72.7	74.9	104
	269	280	275	17.0	70.3	71.5	105
	206	279	276	14.7	62.9	63.6	105

1000 RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
	298	70	64	4.9	63.5	69.3	92
	252	88	84	4.9	70.9	74.5	92
	209	101	98	4.6	72.7	74.9	92
	167	109	107	4.1	70.3	71.5	92
	128	109	107	3.6	62.9	63.6	92

1400 RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
	418	138	126	13.5	63.5	69.3	101
	353	173	165	13.4	70.9	74.5	101
	294	198	192	12.6	72.7	74.9	101
	235	214	210	11.4	70.3	71.5	101
	180	213	211	9.8	62.9	63.6	101

1800 RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
	539	229	209	28.9	63.5	69.3	107
	456	288	274	28.5	70.9	74.5	107
	379	329	319	27.0	72.7	74.9	107
	303	355	349	24.3	70.3	71.5	107
	232	354	350	20.9	62.9	63.6	107

※ Power rating (kW) does not include transmission losses.

Performance ratings do not include the effects of appurtenances (accessories).

Values shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301

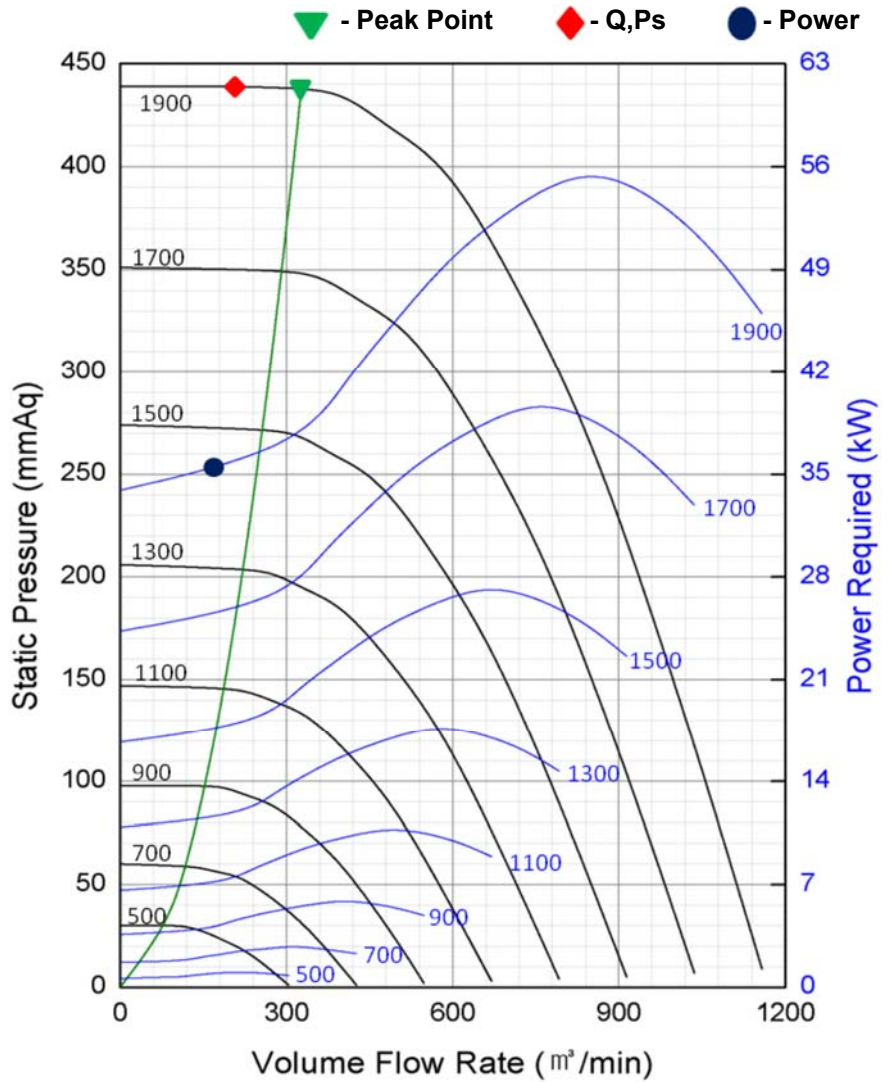
BFS-0900 (# 6 SS)



Belt-driven, Single-Inlet Airfoil Blade



System range.(Maximum REV./Min)
 Class- = 1,413 RPM
 Class- = 1,552 RPM
 Class- = 1,923 RPM
 Impeller Diameter : 903 mm.
 Outlet Area. : 0.600 m²



RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
700 RPM	305	42	37	2.8	67.2	75.0	86
	262	49	46	2.6	73.9	79.1	85
	216	56	54	2.5	76.9	80.0	85
	178	58	56	2.2	73.0	75.0	85
	149	59	58	2.1	69.1	70.3	85
1100 RPM	480	103	93	10.8	67.2	75.0	97
	412	122	114	10.3	73.9	79.1	97
	340	139	133	9.6	76.9	80.0	97
	281	143	139	8.7	73.0	75.0	97
	235	147	144	8.0	69.1	70.3	97
1500 RPM	657	193	173	27.4	67.2	75.0	105
	563	227	212	26.2	73.9	79.1	105
	465	259	249	24.4	76.9	80.0	104
	384	266	259	22.1	73.0	75.0	104
	322	274	270	20.4	69.1	70.3	104

RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
900 RPM	392	69	62	5.9	67.2	75.0	92
	337	81	76	5.6	73.9	79.1	92
	278	93	89	5.2	76.9	80.0	92
	229	95	93	4.8	73.0	75.0	92
	192	98	97	4.4	69.1	70.3	92
1300 RPM	568	145	130	17.8	67.2	75.0	102
	488	170	159	17.0	73.9	79.1	101
	402	194	186	15.8	76.9	80.0	101
	332	199	194	14.4	73.0	75.0	101
	278	206	202	13.2	69.1	70.3	101
1700 RPM	745	248	222	40.0	67.2	75.0	108
	640	292	273	38.2	73.9	79.1	108
	528	333	320	35.6	76.9	80.0	107
	436	343	334	32.3	73.0	75.0	107
	366	353	347	29.7	69.1	70.3	107

※ Power rating (kW) does not include transmission losses.

Performance ratings do not include the effects of appurtenances (accessories).

Values shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301

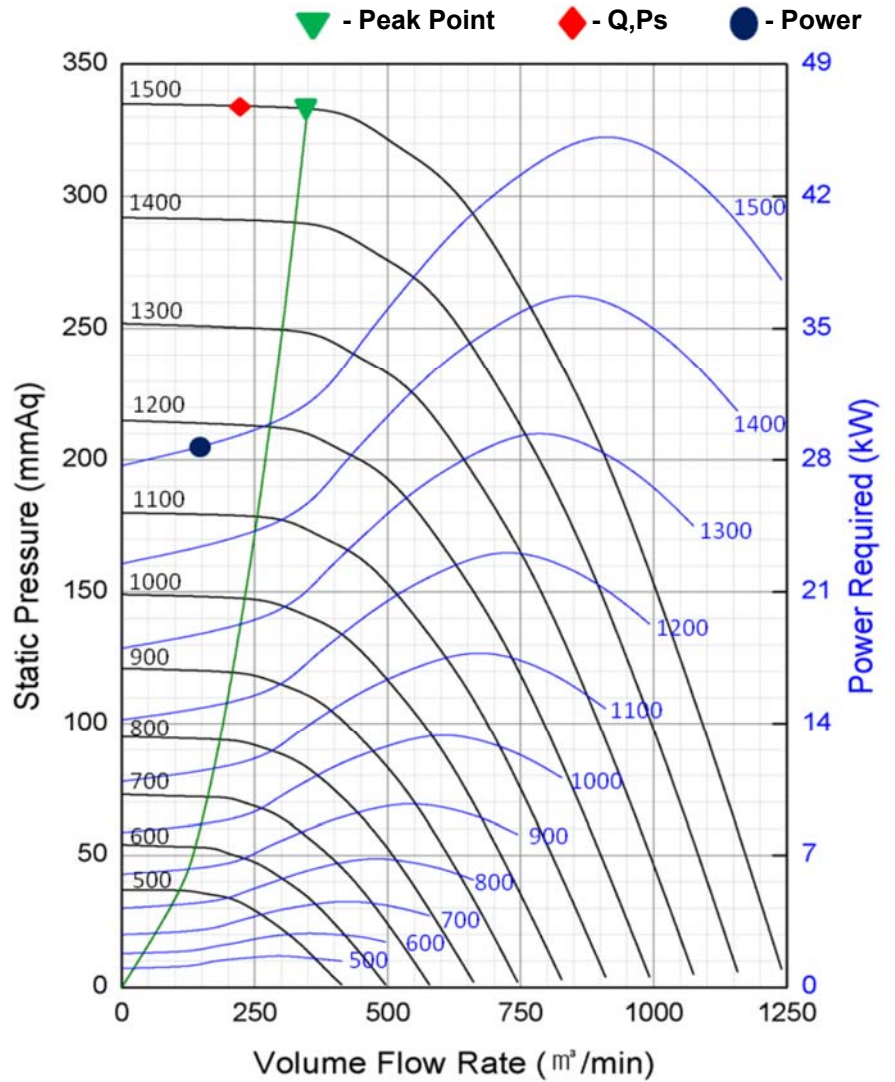
BFS-1000 (# 7 SS)



Belt-driven, Single-Inlet Airfoil Blade



System range.(Maximum REV./Min)
 Class- = 1,344 RPM
 Class- = 1,497 RPM
 Class- = 1,639 RPM
 Impeller Diameter : 1000 mm.
 Outlet Area. : 0.738 m²



RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
700	414	51	46	4.6	67.2	75.0	89
	355	60	56	4.4	73.9	79.1	88
	293	69	66	4.1	76.9	80.0	88
	242	71	69	3.7	73.0	75.0	88
	203	73	72	3.4	69.1	70.3	88
900	533	85	76	9.8	67.2	75.0	95
	457	100	93	9.4	73.9	79.1	95
	377	114	109	8.7	76.9	80.0	95
	311	117	114	7.9	73.0	75.0	95
	261	121	118	7.3	69.1	70.3	95
1100	652	127	114	17.9	67.2	75.0	100
	559	149	139	17.1	73.9	79.1	100
	462	170	163	15.9	76.9	80.0	100
	381	175	170	14.5	73.0	75.0	100
	319	180	177	13.3	69.1	70.3	100

RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
800	473	67	60	6.9	67.2	75.0	92
	406	79	74	6.6	73.9	79.1	92
	335	90	86	6.1	76.9	80.0	92
	277	92	90	5.5	73.0	75.0	92
	232	95	93	5.1	69.1	70.3	92
1000	592	105	94	13.5	67.2	75.0	98
	508	123	115	12.9	73.9	79.1	98
	419	140	135	12.0	76.9	80.0	98
	346	144	141	10.9	73.0	75.0	98
	290	149	146	10.0	69.1	70.3	98
1200	712	151	135	23.3	67.2	75.0	103
	611	178	166	22.3	73.9	79.1	102
	504	203	195	20.7	76.9	80.0	102
	416	208	203	18.8	73.0	75.0	102
	349	215	211	17.3	69.1	70.3	102

※ Power rating (kW) does not include transmission losses.

Performance ratings do not include the effects of appurtenances (accessories).

Values shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301

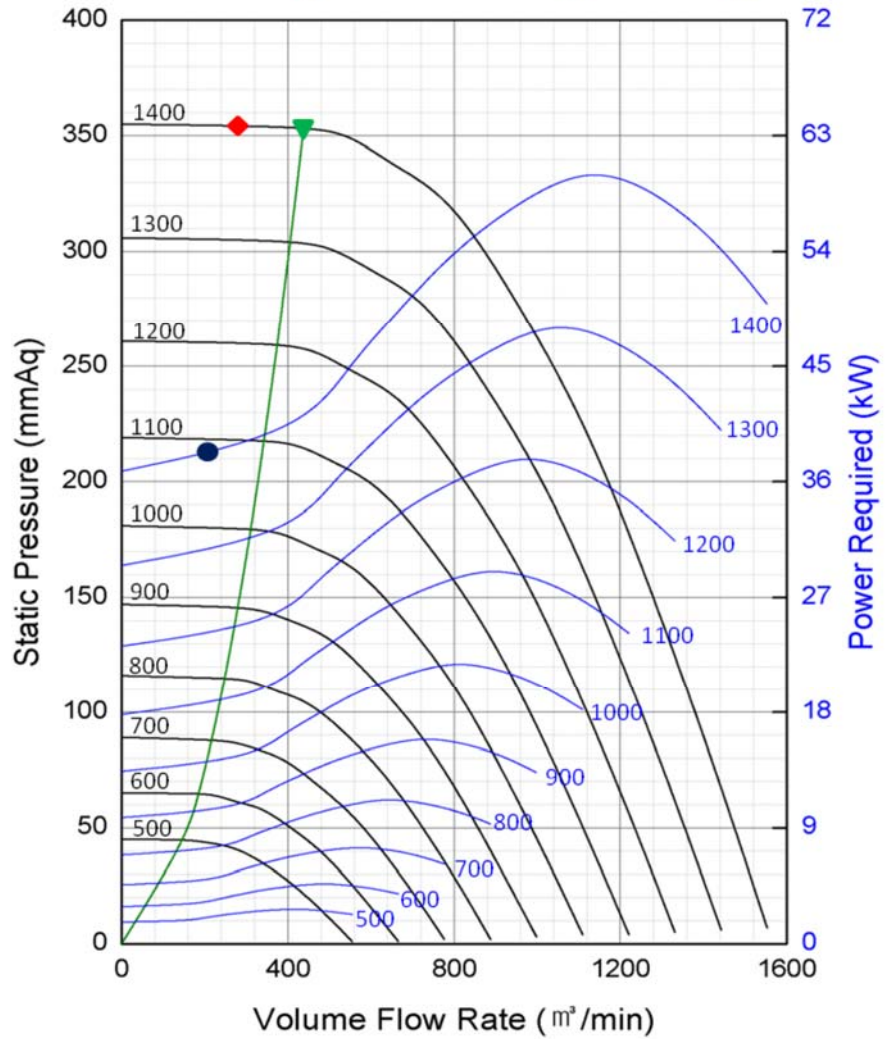
BFS-1120 (# 8 SS)



Belt-driven, Single-Inlet Airfoil Blade



▼ - Peak Point ◆ - Q,Ps ● - Power



System range.(Maximum REV./Min)
 Class- = 903 RPM
 Class- = 1,179 RPM
 Class- = 1,486 RPM
 Impeller Diameter : 1,103 mm.
 Outlet Area. : 0.892 m²

RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
600 RPM	476	46	41	4.7	67.2	75.0	88
	408	54	50	4.5	73.9	79.1	88
	337	61	59	4.2	76.9	80.0	87
	278	63	61	3.8	73.0	75.0	87
	233	65	64	3.5	69.1	70.3	87
700 RPM	556	62	56	7.5	67.2	75.0	92
	477	73	68	7.2	73.9	79.1	91
	393	84	80	6.7	76.9	80.0	91
	325	86	84	6.1	73.0	75.0	91
	272	89	87	5.6	69.1	70.3	91
800 RPM	635	82	73	11.3	67.2	75.0	95
	545	96	90	10.8	73.9	79.1	95
	450	109	105	10.0	76.9	80.0	95
	371	112	109	9.1	73.0	75.0	95
	311	116	114	8.4	69.1	70.3	95
900 RPM	715	103	92	16.0	67.2	75.0	98
	614	121	113	15.3	73.9	79.1	98
	506	138	133	14.2	76.9	80.0	98
	418	142	139	12.9	73.0	75.0	98
	350	147	144	11.9	69.1	70.3	98
1000 RPM	795	128	114	22.0	67.2	75.0	101
	682	150	140	21.0	73.9	79.1	101
	563	171	164	19.6	76.9	80.0	101
	465	176	171	17.7	73.0	75.0	101
	390	181	178	16.3	69.1	70.3	101
1100 RPM	876	154	138	29.3	67.2	75.0	103
	751	182	170	28.0	73.9	79.1	103
	620	207	199	26.1	76.9	80.0	103
	512	213	208	23.6	73.0	75.0	103
	429	220	216	21.8	69.1	70.3	103

※ Power rating (kW) does not include transmission losses.

Performance ratings do not include the effects of appurtenances (accessories).

Values shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301

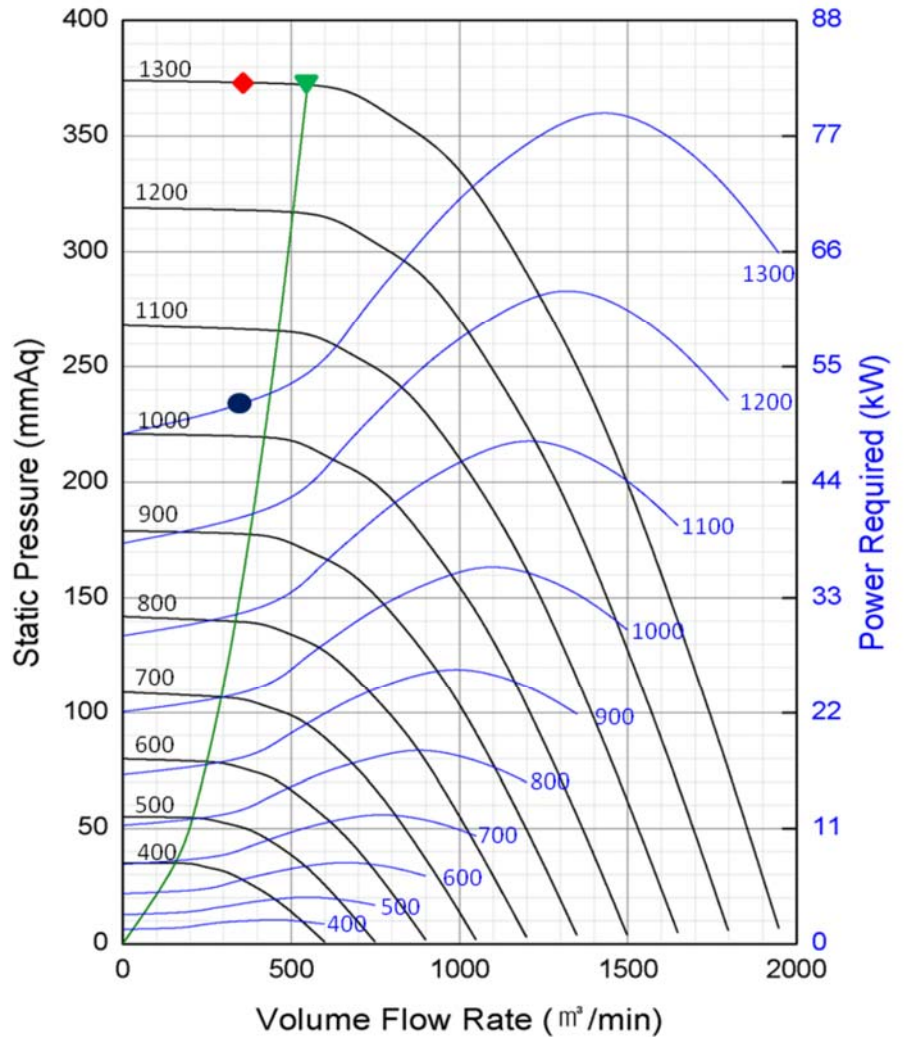
BFS-1250 (# 9 SS)



Belt-driven, Single-Inlet Airfoil Blade



▼ - Peak Point ◆ - Q,P_s ● - Power



System range.(Maximum REV./Min)
 Class- = 817 RPM
 Class- = 1,066 RPM
 Class- = 1,344 RPM
 Impeller Diameter : 1,219 mm.
 Outlet Area. : 1.09 m²

RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
500 RPM	535	39	35	4.5	67.2	75.0	86
	459	46	43	4.3	73.9	79.1	86
	379	52	50	4.0	76.9	80.0	86
	313	54	52	3.6	73.0	75.0	86
	262	55	54	3.4	69.1	70.3	86
700 RPM	750	76	68	12.4	67.2	75.0	95
	644	90	84	11.9	73.9	79.1	94
	531	102	98	11.0	76.9	80.0	94
	438	105	102	10.0	73.0	75.0	94
	367	108	106	9.2	69.1	70.3	94
900 RPM	966	126	113	26.4	67.2	75.0	101
	829	148	139	25.3	73.9	79.1	101
	684	169	162	23.5	76.9	80.0	101
	565	174	169	21.3	73.0	75.0	101
	473	179	176	19.6	69.1	70.3	101

RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
600 RPM	643	56	50	7.8	67.2	75.0	91
	551	66	61	7.5	73.9	79.1	91
	455	75	72	6.9	76.9	80.0	90
	376	77	75	6.3	73.0	75.0	90
	315	80	78	5.8	69.1	70.3	90
800 RPM	858	100	89	18.6	67.2	75.0	98
	736	117	109	17.7	73.9	79.1	98
	607	133	128	16.5	76.9	80.0	98
	502	137	134	15.0	73.0	75.0	98
	420	142	139	13.8	69.1	70.3	98
1000 RPM	1074	156	140	36.3	67.2	75.0	104
	922	183	171	34.7	73.9	79.1	104
	761	209	201	32.3	76.9	80.0	104
	628	215	209	29.3	73.0	75.0	104
	526	222	218	27.0	69.1	70.3	104

※ Power rating (kW) does not include transmission losses.

Performance ratings do not include the effects of appurtenances (accessories).

Values shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301

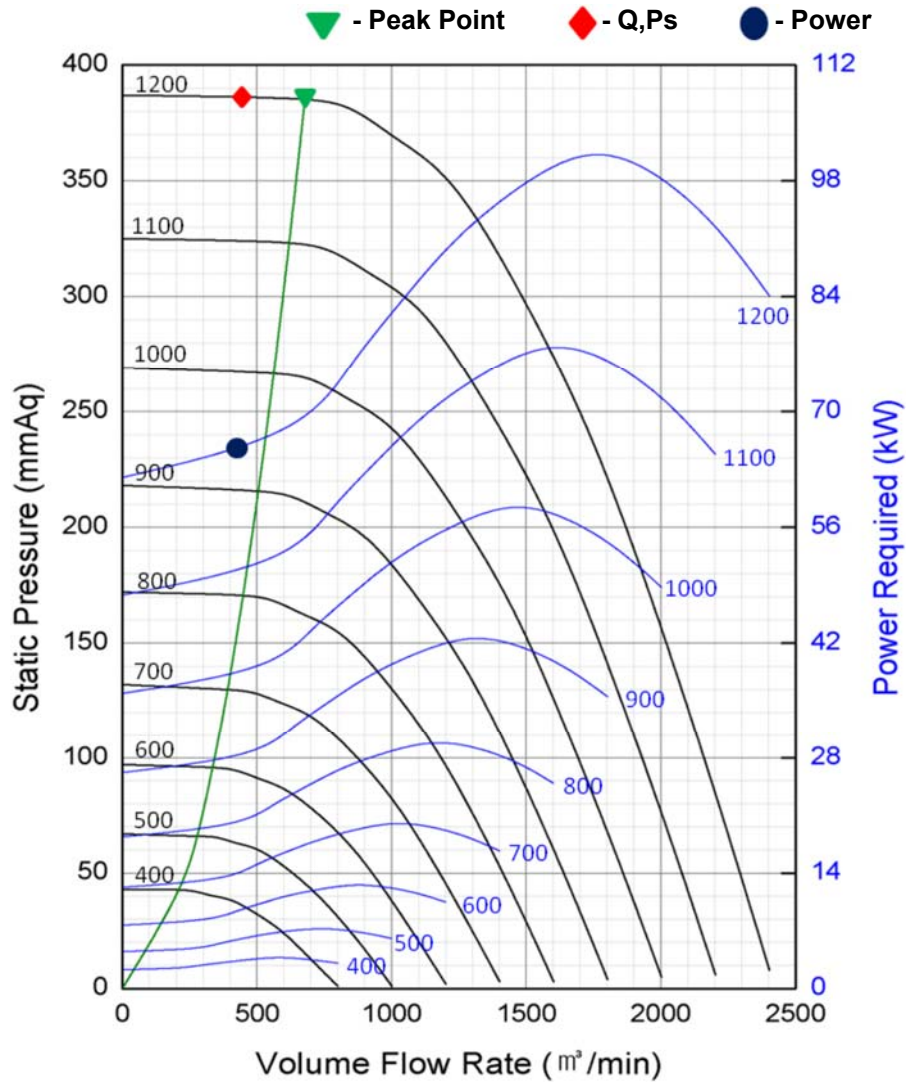
BFS-1400 (# 10 SS)



Belt-driven, Single-Inlet Airfoil Blade



System range. (Maximum REV./Min)
 Class- = 742 RPM
 Class- = 968 RPM
 Class- = 1,221 RPM
 Impeller Diameter : 1,343 mm.
 Outlet Area. : 1.324 m²



RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBa.
500	716	47	42	7.3	67.2	75.0	89
	614	55	52	7.0	73.9	79.1	89
	506	63	61	6.5	76.9	80.0	89
	418	65	63	5.9	73.0	75.0	89
	350	67	66	5.4	69.1	70.3	89
700	1004	93	83	20.2	67.2	75.0	98
	861	109	102	19.3	73.9	79.1	97
	710	124	119	17.9	76.9	80.0	97
	587	128	124	16.3	73.0	75.0	97
	492	132	129	15.0	69.1	70.3	97
900	1293	153	137	43.0	67.2	75.0	104
	1110	180	168	41.1	73.9	79.1	104
	916	205	197	38.2	76.9	80.0	104
	756	211	206	34.6	73.0	75.0	104
	634	218	214	31.9	69.1	70.3	104

RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBa.
600	860	68	61	12.7	67.2	75.0	94
	737	80	75	12.1	73.9	79.1	94
	608	91	87	11.3	76.9	80.0	93
	502	94	91	10.2	73.0	75.0	93
	421	97	95	9.4	69.1	70.3	93
800	1148	121	108	30.1	67.2	75.0	101
	985	142	133	28.8	73.9	79.1	101
	813	162	156	26.8	76.9	80.0	101
	671	167	162	24.3	73.0	75.0	101
	562	172	169	22.4	69.1	70.3	101
1000	1438	189	170	59.0	67.2	75.0	107
	1234	223	208	56.4	73.9	79.1	107
	1019	254	244	52.5	76.9	80.0	107
	842	261	255	47.6	73.0	75.0	107
	705	270	265	43.8	69.1	70.3	107

※ Power rating (kW) does not include transmission losses.

Performance ratings do not include the effects of appurtenances (accessories).

Values shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301

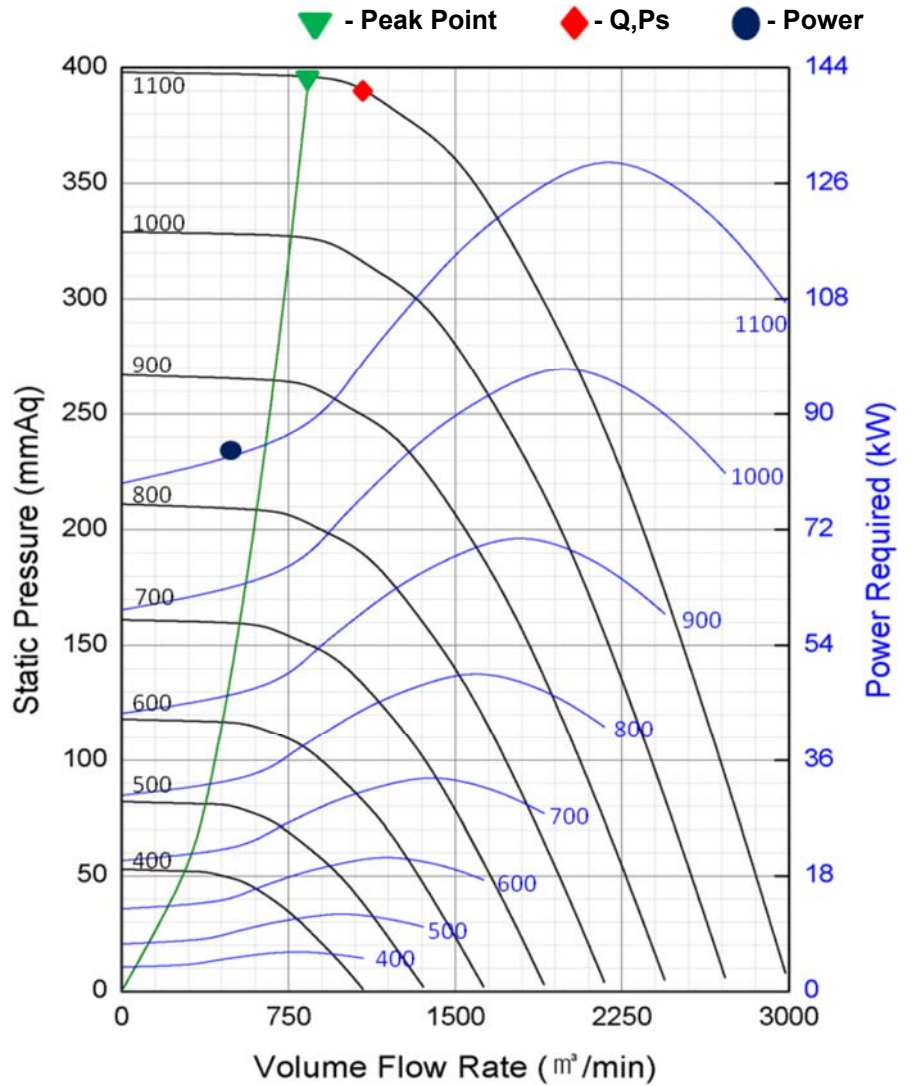
BFS-1600 (# 11 SS)



Belt-driven, Single-Inlet Airfoil Blade



System range.(Maximum REV./Min)
 Class- = 670 RPM
 Class- = 875 RPM
 Class- = 1,103 RPM
 Impeller Diameter : 1,486 mm.
 Outlet Area. : 1.623 m²



RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
400 RPM	776	37	33	6.2	67.2	75.0	86
	665	43	41	6.0	73.9	79.1	86
	549	49	48	5.5	76.9	80.0	86
	453	51	50	5.0	73.0	75.0	86
	380	52	52	4.6	69.1	70.3	85
600 RPM	1165	83	75	21.1	67.2	75.0	97
	999	98	91	20.1	73.9	79.1	97
	825	111	107	18.7	76.9	80.0	96
	681	115	112	17.0	73.0	75.0	96
	571	118	116	15.6	69.1	70.3	96
800 RPM	1557	148	133	50.0	67.2	75.0	104
	1336	174	163	47.8	73.9	79.1	104
	1102	199	191	44.5	76.9	80.0	104
	910	204	199	40.3	73.0	75.0	104
	763	211	207	37.2	69.1	70.3	104

RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
500 RPM	970	58	52	12.2	67.2	75.0	92
	832	68	63	11.6	73.9	79.1	92
	686	77	74	10.8	76.9	80.0	92
	567	80	78	9.8	73.0	75.0	92
	475	82	81	9.0	69.1	70.3	92
700 RPM	1361	113	102	33.5	67.2	75.0	101
	1167	133	125	32.0	73.9	79.1	100
	963	152	146	29.8	76.9	80.0	100
	796	156	152	27.0	73.0	75.0	100
	666	161	158	24.9	69.1	70.3	100
900 RPM	1753	188	168	71.3	67.2	75.0	107
	1505	221	207	68.2	73.9	79.1	107
	1242	252	242	63.4	76.9	80.0	107
	1026	259	252	57.5	73.0	75.0	107
	859	267	263	53.0	69.1	70.3	107

※ Power rating (kW) does not include transmission losses.
 Performance ratings do not include the effects of appurtenances (accessories).
 Values shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301

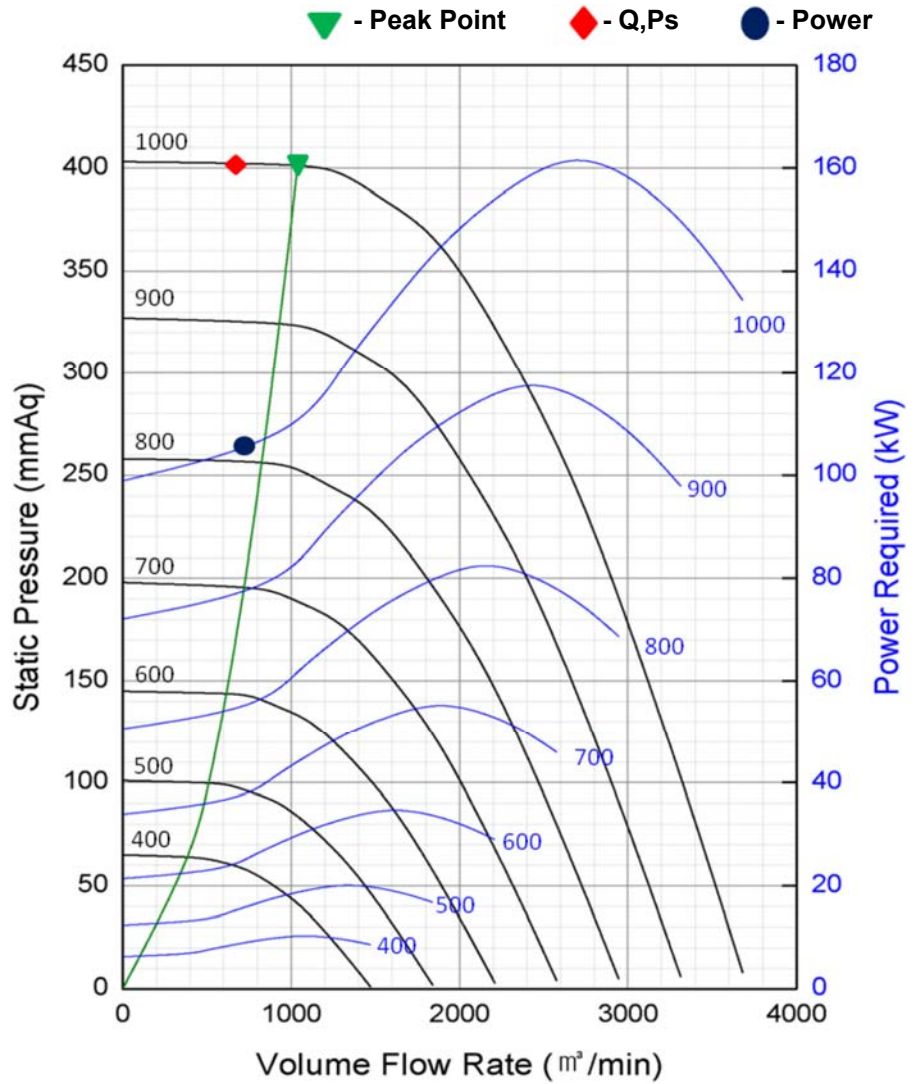
BFS-1800 (# 12 SS)



Belt-driven, Single-Inlet Airfoil Blade



System range. (Maximum REV./Min)
 Class- = 606 RPM
 Class- = 791 RPM
 Class- = 997 RPM
 Impeller Diameter : 1,645 mm.
 Outlet Area. : 1.984 m²



RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
400 RPM	1053	45	41	10.4	67.2	75.0	89
	903	53	50	9.9	73.9	79.1	89
	745	61	58	9.2	76.9	80.0	89
	615	62	61	8.3	73.0	75.0	89
	515	64	63	7.7	69.1	70.3	89
600 RPM	1582	102	91	35.0	67.2	75.0	100
	1357	120	112	33.5	73.9	79.1	100
	1119	137	131	31.1	76.9	80.0	100
	925	141	137	28.2	73.0	75.0	100
	775	145	143	26.0	69.1	70.3	99
800 RPM	2114	182	163	83.3	67.2	75.0	107
	1814	214	200	79.6	73.9	79.1	107
	1498	244	234	74.0	76.9	80.0	107
	1237	251	244	67.2	73.0	75.0	107
	1036	259	254	61.9	69.1	70.3	107

RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
500 RPM	1317	71	63	20.3	67.2	75.0	96
	1129	83	78	19.4	73.9	79.1	95
	932	95	91	18.0	76.9	80.0	95
	769	98	95	16.3	73.0	75.0	95
	645	101	99	15.0	69.1	70.3	95
700 RPM	1847	139	125	55.7	67.2	75.0	104
	1585	163	153	53.2	73.9	79.1	104
	1308	186	179	49.5	76.9	80.0	103
	1080	192	187	44.9	73.0	75.0	103
	905	198	194	41.4	69.1	70.3	103
900 RPM	2382	230	206	118.7	67.2	75.0	110
	2045	271	253	113.5	73.9	79.1	110
	1688	309	297	105.6	76.9	80.0	110
	1394	318	310	95.8	73.0	75.0	110
	1168	328	322	88.3	69.1	70.3	110

※ Power rating (kW) does not include transmission losses.

Performance ratings do not include the effects of appurtenances (accessories).

Values shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301

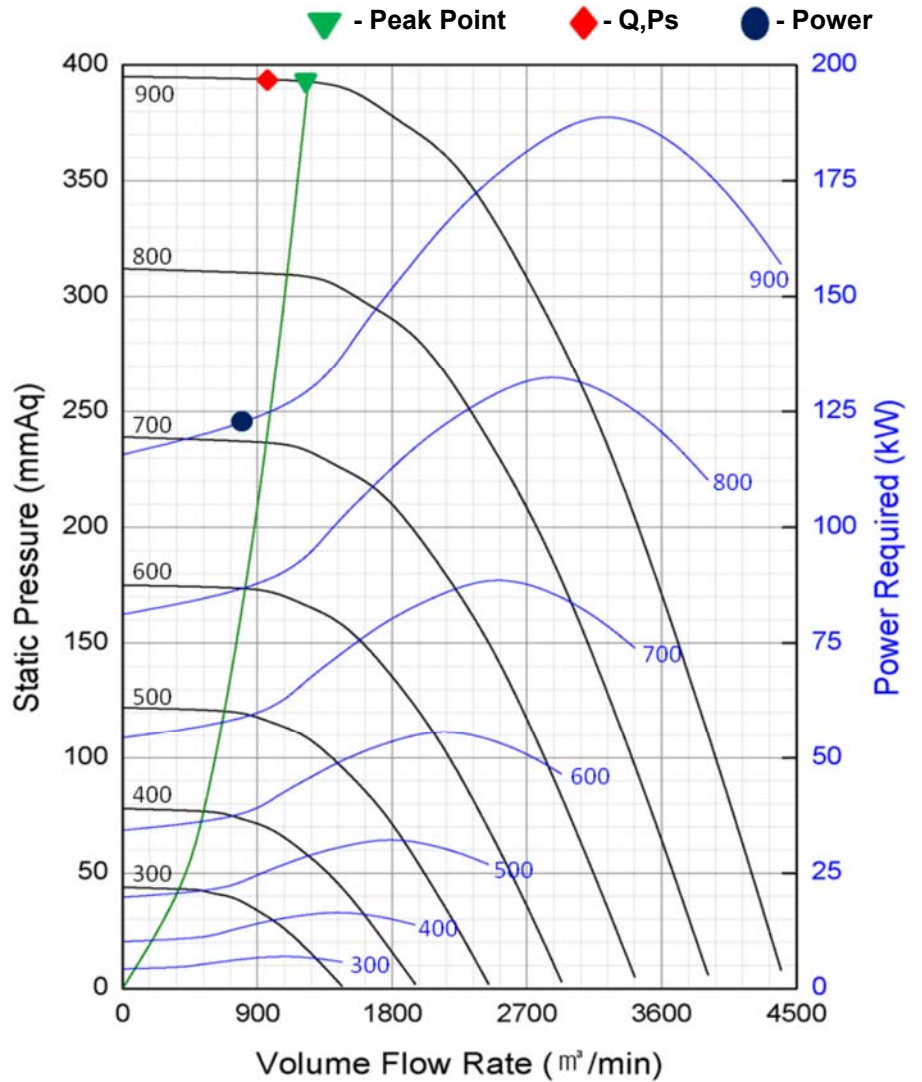
BFS-2000 (# 13 SS)



Belt-driven, Single-Inlet Airfoil Blade



System range.(Maximum REV./Min)
 Class- = 551 RPM
 Class- = 719 RPM
 Class- = 906 RPM
 Impeller Diameter : 1,808 mm.
 Outlet Area. : 2.399 m²



RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
400	1398	55	49	16.6	67.2	75.0	92
	1199	64	60	15.9	73.9	79.1	92
	989	73	70	14.8	76.9	80.0	92
	817	75	73	13.4	73.0	75.0	92
	684	78	76	12.3	69.1	70.3	91
600	2101	123	110	56.2	67.2	75.0	103
	1803	145	136	53.8	73.9	79.1	103
	1488	165	159	50.0	76.9	80.0	102
	1229	170	166	45.3	73.0	75.0	102
	1029	175	172	41.8	69.1	70.3	102
800	2810	220	197	133.7	67.2	75.0	110
	2412	259	242	127.9	73.9	79.1	110
	1991	295	284	118.9	76.9	80.0	110
	1645	304	296	107.9	73.0	75.0	110
	1378	313	308	99.4	69.1	70.3	110

RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBA.
500	1749	86	77	32.5	67.2	75.0	98
	1500	101	94	31.1	73.9	79.1	98
	1238	115	110	28.9	76.9	80.0	98
	1022	118	115	26.2	73.0	75.0	98
	856	122	119	24.1	69.1	70.3	98
700	2455	168	151	89.4	67.2	75.0	107
	2107	198	185	85.5	73.9	79.1	106
	1739	225	217	79.5	76.9	80.0	106
	1436	232	226	72.1	73.0	75.0	106
	1203	239	235	66.4	69.1	70.3	106
900	3167	279	250	190.7	67.2	75.0	113
	2719	328	307	182.4	73.9	79.1	113
	2246	374	360	169.7	76.9	80.0	113
	1855	385	375	154.0	73.0	75.0	113
	1554	397	390	141.8	69.1	70.3	113

※ Power rating (kW) does not include transmission losses.
 Performance ratings do not include the effects of appurtenances (accessories).
 Values shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301

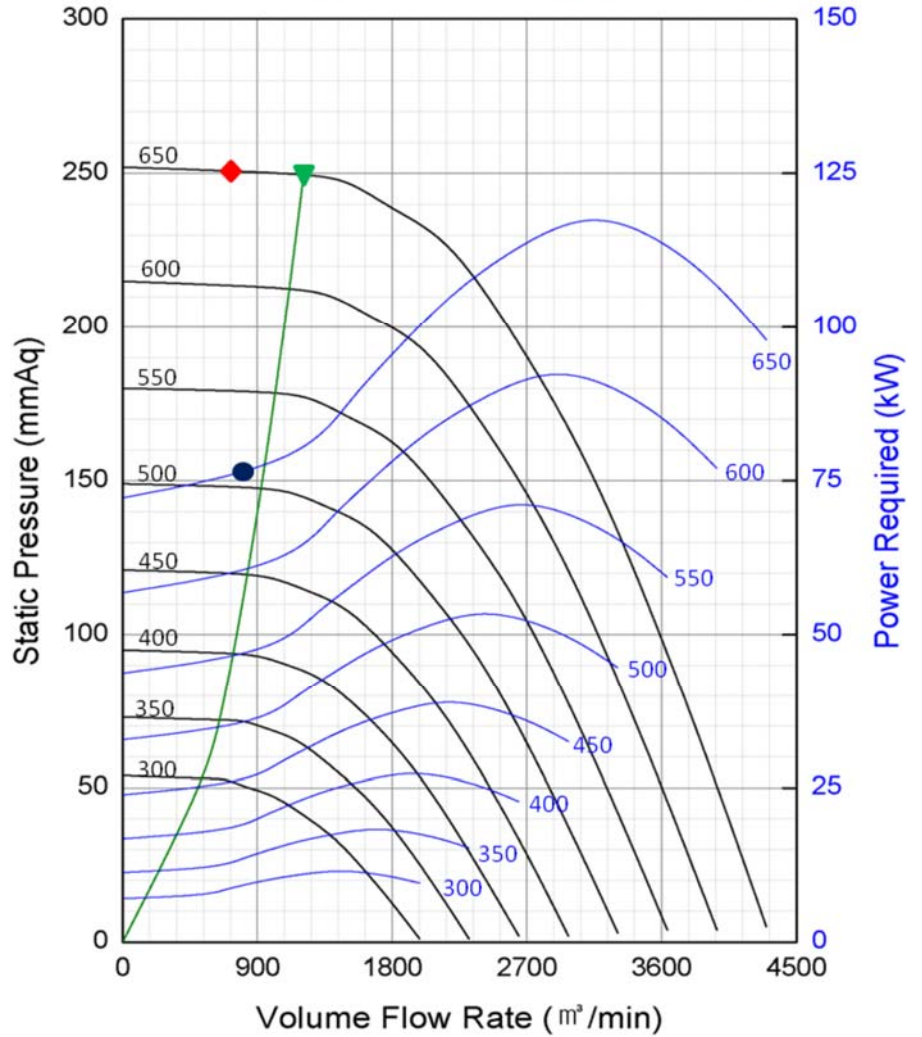
BFS-2240 (# 14 SS)



Belt-driven, Single-Inlet Airfoil Blade



▼ - Peak Point ◆ - Q,Ps ● - Power



System range.(Maximum REV./Min)
 Class- = 498 RPM
 Class- = 650 RPM
 Impeller Diameter : 2,000 mm.
 Outlet Area. : 3.003 m²

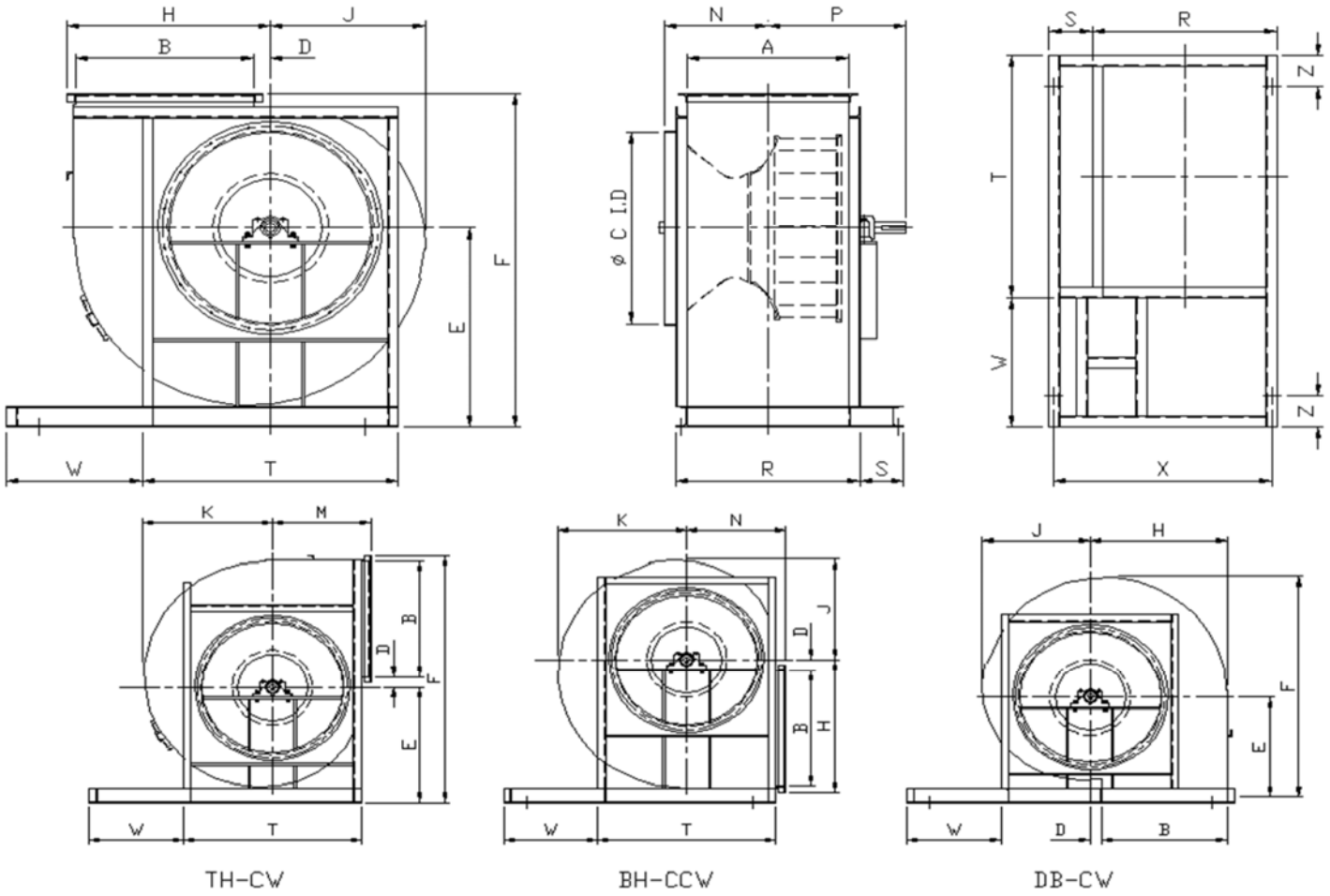
RPM	Q	Pt	Ps	S.Pow	ST. Eff	Total	LwiA
	m ³ /m	mmAq	mmAq	(kW)	(%)	Eff.(%)	dBa.
350 RPM	1656	51	46	18.5	67.2	75.0	91
	1420	60	56	17.6	73.9	79.1	91
	1171	69	66	16.4	76.9	80.0	91
	967	71	69	14.9	73.0	75.0	91
	810	73	72	13.7	69.1	70.3	91
400 RPM	1893	67	60	27.6	67.2	75.0	95
	1624	79	74	26.3	73.9	79.1	95
	1339	90	86	24.5	76.9	80.0	95
	1106	92	90	22.2	73.0	75.0	95
	927	95	93	20.4	69.1	70.3	95
450 RPM	2131	85	76	39.3	67.2	75.0	98
	1828	100	93	37.5	73.9	79.1	98
	1508	114	109	34.9	76.9	80.0	98
	1245	117	114	31.6	73.0	75.0	98
	1043	121	118	29.1	69.1	70.3	98
500 RPM	2369	105	94	53.9	67.2	75.0	101
	2032	123	115	51.5	73.9	79.1	101
	1677	140	135	47.9	76.9	80.0	101
	1385	144	141	43.4	73.0	75.0	101
	1160	149	146	40.0	69.1	70.3	101
550 RPM	2608	127	114	71.8	67.2	75.0	104
	2237	149	139	68.6	73.9	79.1	104
	1846	170	163	63.8	76.9	80.0	104
	1525	175	170	57.8	73.0	75.0	103
	1277	180	177	53.3	69.1	70.3	103
600 RPM	2847	151	135	93.2	67.2	75.0	106
	2443	178	166	89.1	73.9	79.1	106
	2016	203	195	82.9	76.9	80.0	106
	1665	208	203	75.2	73.0	75.0	105
	1395	215	211	69.3	69.1	70.3	105

※ Power rating (kW) does not include transmission losses.
 Performance ratings do not include the effects of appurtenances (accessories).
 Values shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301

4. OUT LINE DWG. / Arg-3



AIRFOIL SISW OUT-LINE DWG. (Arrangement-3)



DIMENSIONS (mm)

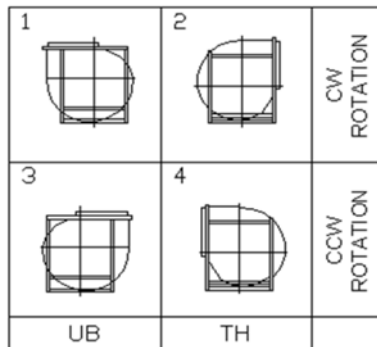
FAN SIZE.	A	B	C	D	E (center)				F (height)			
					UB	TH	BH	DB	UB	TH	BH	DB
BFS-0315 (# 2 SS)	276	305	339	25	427	376	417	406	742	746	688	728
BFS-0355 (# 2 1/2 SS)	303	336	373	27	459	402	503	425	793	805	799	778
BFS-0400 (# 2 3/4 SS)	337	372	415	32	497	433	544	451	857	877	873	842
BFS-0450 (# 3 SS)	370	409	456	36	535	465	586	482	926	950	945	911
BFS-0500 (# 3 1/2 SS)	408	450	505	40	552	476	608	508	969	1006	1002	979
BFS-0560 (# 3 3/4 SS)	448	496	553	43	597	513	655	539	1045	1092	1090	1058
BFS-0630 (# 4 SS)	498	555	616	44	652	560	715	578	1139	1199	1197	1153
BFS-0680 (# 4 1/2 SS)	548	608	678	51	719	608	775	618	1246	1307	1304	1249
BFS-0710 (# 5 SS)	603	672	747	55	808	694	879	691	1373	1461	1459	1385
BFS-0800 (# 5 1/2 SS)	673	739	830	69	883	757	959	735	1492	1605	1605	1506
BFS-0900 (# 6 SS)	739	812	905	77	957	821	1040	773	1604	1750	1748	1619
BFS-1000 (# 7 SS)	815	906	1010	76	1096	944	1208	912	1807	1976	1988	1846
BFS-1120 (# 8 SS)	895	997	1113	84	1221	1043	1255	950	2009	2174	2113	1977
BFS-1250 (# 9 SS)	989	1102	1230	94	1327	1144	1370	1020	2185	2390	2317	2154
BFS-1400 (# 10 SS)	1089	1216	1356	102	1441	1239	1492	1103	2382	2607	2535	2352
BFS-1600 (# 11 SS)	1205	1347	1487	111	1572	1345	1632	1198	2608	2853	2784	2578
BFS-1800 (# 12 SS)	1335	1486	1664	125	1715	1465	1785	1306	2859	3141	3058	2830
BFS-2000 (# 13 SS)	1467	1635	1816	138	1865	1592	1947	1408	3111	3430	3347	3084
BFS-2240 (# 14 SS)	1622	1807	2008	154	2066	1764	2135	1528	3432	3800	3680	3380

- NOTE -

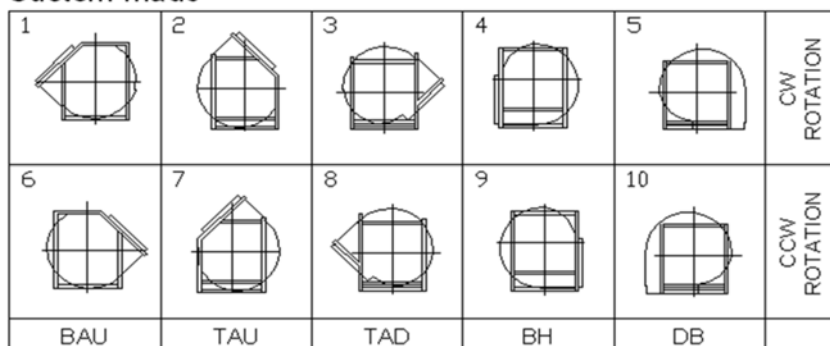
1. UB,TH 이외의 SIZE는 고객 주문품임.
2. DB방향은 "비표준 베이스" 제품으로 상기 치수적용을 금합니다.
3. "표-2"의 Custom-made 제품은 적용 전 반드시 당사 영업/기술부와 협의를 부탁드립니다.
 ※ 상기 치수는 제품의 개선으로 사전 예고 없이 변경 될 수 있으며, 당사 기술/영업부의 별도 승인 후 적용 바랍니다.

AIRFOIL SISW OUT-LINE DWG. (Arrangement-3)

Make standard



Custom-made



Motor Frame.	SIZE "W"		
	75	100	150
90L	370	360	
100L	420	410	
112M	450	450	480
132S	520	530	560
132M	520	530	560
160M	600	620	660
160L	600	620	660
180M	660	680	720
180L	660	680	720
200L	730	770	810
225S		840	890
225M		840	890
250S		930	980
250M		930	980
280S			1070
280M			1070
280L			1070

구동 측에서 보았을 시 회전 및 토출 방향(View a drive side)

<표-3 회전 및 토출 방향>

<표-4 치수 "W">

FAN SIZE.	DIMENSIONS (mm)											Base Channel
	H	J	K	M	N	P	R	S	T	X	Z	
BFS-0315 (# 2 SS)	370	271	322	315	213	339	356	160	508	480	150	75X40X5t
BFS-0355 (# 2 1/2 SS)	403	296	353	334	227	352	383	160	549	507	150	75X40X5t
BFS-0400 (# 2 3/4 SS)	444	329	391	360	244	369	417	160	594	541	150	75X40X5t
BFS-0450 (# 3 SS)	485	359	429	391	260	386	450	170	654	584	150	75X40X5t
BFS-0500 (# 3 1/2 SS)	530	394	471	417	279	409	488	170	714	622	150	75X40X5t
BFS-0560 (# 3 3/4 SS)	579	435	519	448	299	429	528	170	768	662	150	75X40X5t
BFS-0630 (# 4 SS)	639	482	575	487	349	500	578	170	851	712	150	75X40X5t
BFS-0680 (# 4 1/2 SS)	699	529	631	527	374	525	628	200	930	792	150	75X40X5t
BFS-0710 (# 5 SS)	767	580	694	565	402	567	703	200	1003	859	150	100X50X5t
BFS-0800 (# 5 1/2 SS)	848	646	771	609	437	602	773	200	1083	929	150	100X50X5t
BFS-0900 (# 6 SS)	929	708	846	647	470	638	840	200	1168	996	150	100X50X5t
BFS-1000 (# 7 SS)	1032	780	934	711	508	676	965	230	1302	1127	200	150X75X6.5t
BFS-1120 (# 8 SS)	1131	858	1027	788	548	723	1045	230	1408	1207	200	150X75X6.5t
BFS-1250 (# 9 SS)	1246	947	1134	858	595	772	1139	230	1549	1301	200	150X75X6.5t
BFS-1400 (# 10 SS)	1368	1043	1249	941	675	867	1239	230	1708	1401	200	150X75X6.5t
BFS-1600 (# 11 SS)	1508	1152	1380	1036	733	948	1355	280	1885	1567	250	150X75X6.5t
BFS-1800 (# 12 SS)	1676	1273	1524	1144	818	1018	1485	280	2083	1697	250	150X75X6.5t
BFS-2000 (# 13 SS)	1838	1400	1676	1246	884	1106	1617	280	2292	1829	250	150X75X6.5t
BFS-2240 (# 14 SS)	2036	1545	1852	1366	961	1194	1772	280	2534	1984	250	150X75X6.5t

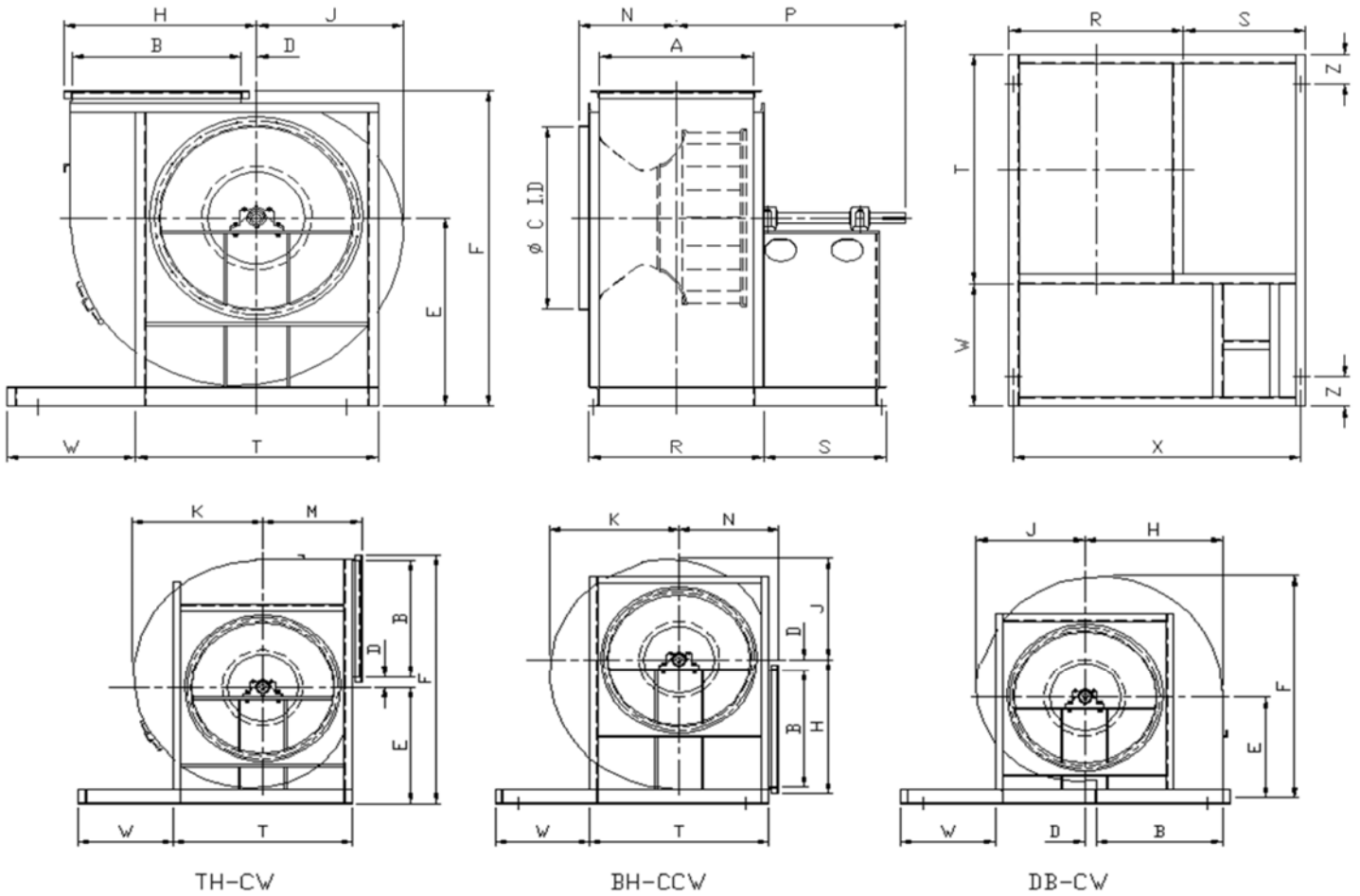
- NOTE -

- "표-2"의 모터 마주보기 및 모터 외장형은 당사 영업/기술부에 문의하시기 바랍니다.
 - 팬 회전 및 토출 방향은 "표-3 회전 및 토출 방향"에 따른다.
 - SIZE "W"는 모터 프레임에 따라 변경되는 값으로, 베이스 규격 과 모터 프레임을 참조(-표4).
- ※ 상기 치수는 제품의 개선으로 사전 예고 없이 변경 될 수 있으며, 당사 기술/영업부의 별도 승인 후 적용 바랍니다.

4. OUT LINE DWG. / Arg-1



AIRFOIL SISW OUT-LINE DWG. (Arrangement-1)



DIMENSIONS (mm)

FAN SIZE.	A	B	C	D	E (center)				F (height)			
					UB	TH	BH	DB	UB	TH	BH	DB
BFS-0315 (# 2 SS)	276	305	339	25	427	376	417	406	742	746	688	728
BFS-0355 (# 2 1/2 SS)	303	336	373	27	459	402	503	425	793	805	799	778
BFS-0400 (# 2 3/4 SS)	337	372	415	32	497	433	544	451	857	877	873	842
BFS-0450 (# 3 SS)	370	409	456	36	535	465	586	482	926	950	945	911
BFS-0500 (# 3 1/2 SS)	408	450	505	40	552	476	608	508	969	1006	1002	979
BFS-0560 (# 3 3/4 SS)	448	496	553	43	597	513	655	539	1045	1092	1090	1058
BFS-0630 (# 4 SS)	498	555	616	44	652	560	715	578	1139	1199	1197	1153
BFS-0680 (# 4 1/2 SS)	548	608	678	51	719	608	775	618	1246	1307	1304	1249
BFS-0710 (# 5 SS)	603	672	747	55	808	694	879	691	1373	1461	1459	1385
BFS-0800 (# 5 1/2 SS)	673	739	830	69	883	757	959	735	1492	1605	1605	1506
BFS-0900 (# 6 SS)	739	812	905	77	957	821	1040	773	1604	1750	1748	1619
BFS-1000 (# 7 SS)	815	906	1010	76	1096	944	1208	912	1807	1976	1988	1846
BFS-1120 (# 8 SS)	895	997	1113	84	1221	1043	1255	950	2009	2174	2113	1977
BFS-1250 (# 9 SS)	989	1102	1230	94	1327	1144	1370	1020	2185	2390	2317	2154
BFS-1400 (# 10 SS)	1089	1216	1356	102	1441	1239	1492	1103	2382	2607	2535	2352
BFS-1600 (# 11 SS)	1205	1347	1487	111	1572	1345	1632	1198	2608	2853	2784	2578
BFS-1800 (# 12 SS)	1335	1486	1664	125	1715	1465	1785	1306	2859	3141	3058	2830
BFS-2000 (# 13 SS)	1467	1635	1816	138	1865	1592	1947	1408	3111	3430	3347	3084
BFS-2240 (# 14 SS)	1622	1807	2008	154	2066	1764	2135	1528	3432	3800	3680	3380

- NOTE -

1. UB, TH 이외의 SIZE는 고객 주문품임.
2. DB방향은 "비표준 베이스" 제품으로 상기 치수적용을 금합니다.
3. "표-2"의 Custom-made 제품은 적용 전 반드시 당사 영업/기술부와 협의를 부탁드립니다.
 ※ 상기 치수는 제품의 개선으로 사전 예고 없이 변경 될 수 있으며, 당사 기술/영업부의 별도 승인 후 적용 바랍니다.

AIRFOIL SISW OUT-LINE DWG. (Arrangement-1)

Make standard

1 	2 	CW ROTATION
3 	4 	
UB	TH	CCW ROTATION

Custom-made

1 	2 	3 	4 	5 	CW ROTATION
6 	7 	8 	9 	10 	
BAU	TAU	TAD	BH	DB	CCW ROTATION

Motor Frame.	SIZE "W"		
	75	100	150
90L	370	360	
100L	420	410	
112M	450	450	480
132S	520	530	560
132M	520	530	560
160M	600	620	660
160L	600	620	660
180M	660	680	720
180L	660	680	720
200L	730	770	810
225S		840	890
225M		840	890
250S		930	980
250M		930	980
280S			1070
280M			1070
280L			1070

구동 측에서 보았을 시 회전 및 토출 방향(View a drive side)

<표-3 회전 및 토출 방향>

<표-4 치수 "W">

FAN SIZE.	DIMENSIONS (mm)											Base Channel
	H	J	K	M	N	P	R	S	T	X	Z	
BFS-0315 (# 2 SS)	370	271	322	315	213	691	356	435	508	773	150	75X40X5t
BFS-0355 (# 2 1/2 SS)	403	296	353	334	227	755	383	485	549	850	150	75X40X5t
BFS-0400 (# 2 3/4 SS)	444	329	391	360	244	802	417	515	594	914	150	75X40X5t
BFS-0450 (# 3 SS)	485	359	429	391	260	833	450	530	654	962	150	75X40X5t
BFS-0500 (# 3 1/2 SS)	530	394	471	417	279	907	488	585	714	1055	150	75X40X5t
BFS-0560 (# 3 3/4 SS)	579	435	519	448	299	947	528	605	768	1115	150	75X40X5t
BFS-0630 (# 4 SS)	639	482	575	487	349	1017	578	610	851	1170	150	75X40X5t
BFS-0680 (# 4 1/2 SS)	699	529	631	527	374	1067	628	635	930	1245	150	75X40X5t
BFS-0710 (# 5 SS)	767	580	694	565	402	1140	703	680	1003	1361	150	100X50X5t
BFS-0800 (# 5 1/2 SS)	848	646	771	609	437	1185	773	690	1083	1441	150	100X50X5t
BFS-0900 (# 6 SS)	929	708	846	647	470	1243	840	715	1168	1533	150	100X50X5t
BFS-1000 (# 7 SS)	1032	780	934	711	508	1296	965	730	1302	1627	200	150X75X6.5t
BFS-1120 (# 8 SS)	1131	858	1027	788	548	1356	1045	746	1408	1723	200	150X75X6.5t
BFS-1250 (# 9 SS)	1246	947	1134	858	595	1437	1139	780	1549	1851	200	150X75X6.5t
BFS-1400 (# 10 SS)	1368	1043	1249	941	675	1538	1239	791	1708	1962	200	150X75X6.5t
BFS-1600 (# 11 SS)	1508	1152	1380	1036	733	1621	1355	816	1885	2103	250	150X75X6.5t
BFS-1800 (# 12 SS)	1676	1273	1524	1144	818	1796	1485	926	2083	2343	250	150X75X6.5t
BFS-2000 (# 13 SS)	1838	1400	1676	1246	884	1906	1617	970	2292	2519	250	150X75X6.5t
BFS-2240 (# 14 SS)	2086	1545	1852	1366	961	2080	1772	1017	2534	2721	250	150X75X6.5t

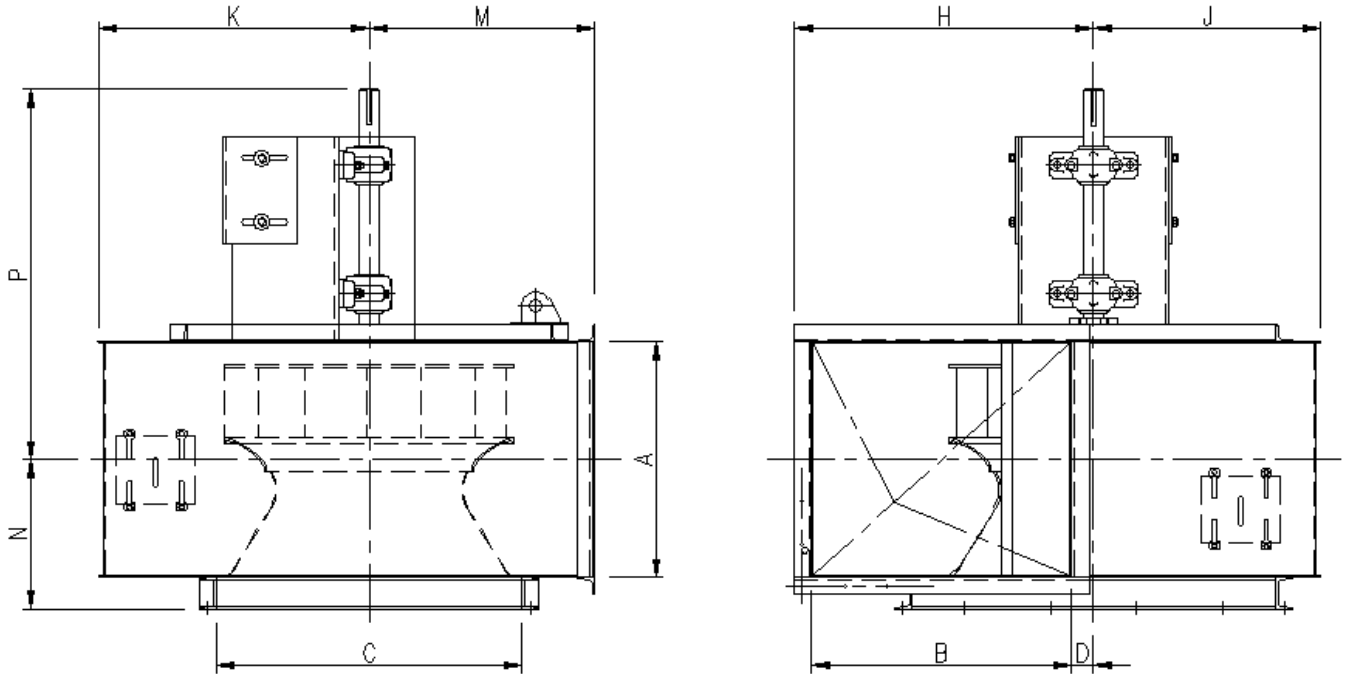
- NOTE -

- "표-2"의 모터 마주보기 및 모터 외장형은 당사 영업/기술부에 문의하시기 바랍니다.
 - 팬 회전 및 토출 방향은 "표-3 회전 및 토출 방향"에 따른다.
 - SIZE "W"는 모터 프레임에 따라 변경되는 값으로, 베이스 규격 과 모터 프레임을 참조(-표4).
- ※ 상기 치수는 제품의 개선으로 사전 예고 없이 변경 될 수 있으며, 당사 기술/영업부의 별도 승인 후 적용 바랍니다.

4. OUT LINE DWG. / Arg-8



AIRFOIL SISW OUT-LINE DWG. (Arrangement-8)



DIMENSIONS (mm)

FAN SIZE.	A	B	C	D	H	J	K	M	N	P	Opening	
											I.S	O.S
BFS-0315 (# 2 SS)	276	305	339	25	370	271	322	315	213	691	400	700
BFS-0355 (# 2 1/2 SS)	303	336	373	27	403	296	353	334	227	755	500	800
BFS-0400 (# 2 3/4 SS)	337	372	415	32	444	329	391	360	244	802	500	800
BFS-0450 (# 3 SS)	370	409	456	36	485	359	429	391	260	833	600	900
BFS-0500 (# 3 1/2 SS)	408	450	505	40	530	394	471	417	279	907	600	900
BFS-0560 (# 3 3/4 SS)	448	496	553	43	579	435	519	448	299	947	700	1000
BFS-0630 (# 4 SS)	498	555	616	44	639	482	575	487	349	1017	700	1000
BFS-0680 (# 4 1/2 SS)	548	608	678	51	699	529	631	527	374	1067	800	1100
BFS-0710 (# 5 SS)	603	672	747	55	767	580	694	565	402	1140	900	1200
BFS-0800 (# 5 1/2 SS)	673	739	830	69	848	646	771	609	437	1185	1000	1300
BFS-0900 (# 6 SS)	739	812	905	77	929	708	846	647	470	1243	1000	1300
BFS-1000 (# 7 SS)	815	906	1010	76	1032	780	934	711	508	1296	1200	1500
BFS-1120 (# 8 SS)	895	997	1113	84	1131	858	1027	788	548	1356	1300	1600
BFS-1250 (# 9 SS)	989	1102	1230	94	1246	947	1134	858	595	1437	1400	1700
BFS-1400 (# 10 SS)	1089	1216	1356	102	1368	1043	1249	941	675	1538	1500	1800
BFS-1600 (# 11 SS)	1205	1347	1487	111	1508	1152	1380	1036	733	1621	1700	2000
BFS-1800 (# 12 SS)	1335	1486	1664	125	1676	1273	1524	1144	818	1796	1800	2200
BFS-2000 (# 13 SS)	1467	1635	1816	138	1836	1400	1676	1246	884	1906	2000	2300
BFS-2240 (# 14 SS)	1622	1807	2008	154	2036	1545	1852	1366	961	2030	2300	2600

- NOTE -

1. OPENING SIZE는 최소 요구치 임.

2. OPTION PART 는 적용 전 반드시 당사 영업/기술부와 협의를 부탁드립니다.

※ 상기 치수는 제품의 개선으로 사전 예고 없이 변경 될 수 있으며, 당사 기술/영업부의 별도 승인 후 적용 바랍니다.



Bumyang&Chicago Blower



주식회사 **BnC**

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