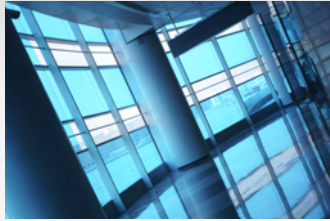




CS3 Series 50/60Hz

Modular Central Station Air Handling Units
Air Volume: 1000 to 56000 cfm (1700 to 95000 m³/hr)



DUNHAM-BUSH

Products that perform...By people who care

DUNHAM-BUSH CS3 Series

Introduction

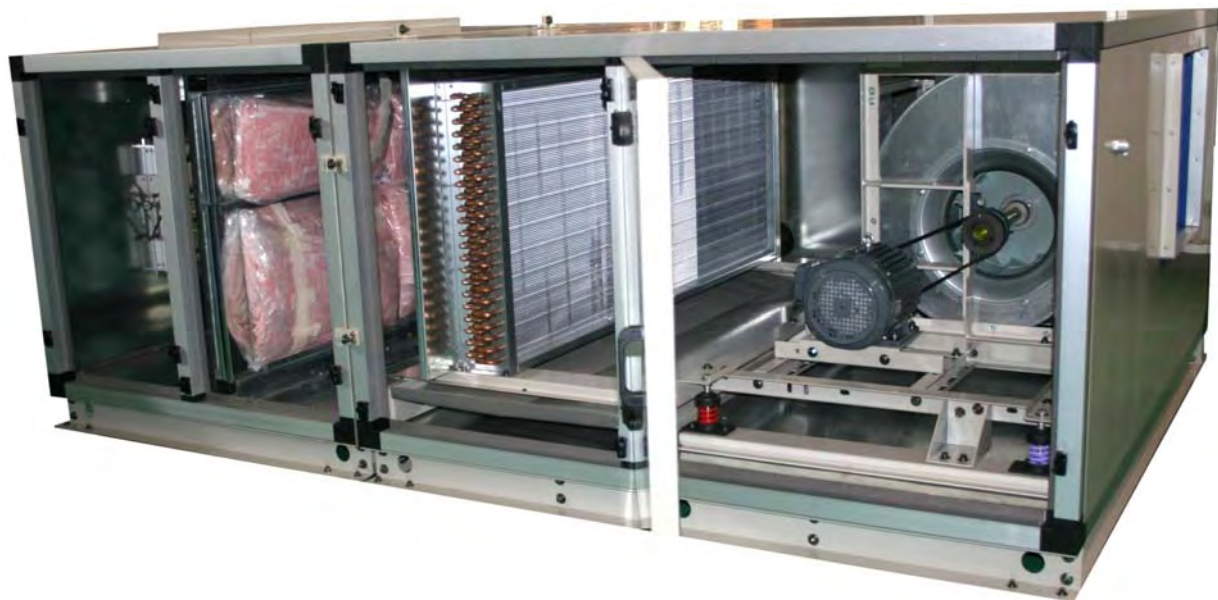
For more than 100 years, Dunham-Bush has focused on innovative product development. Today, we provide a full portfolio of HVAC/R products from Fan Coil Units to large centrifugal chillers as well as many other innovative green solutions. Our commitment to innovation, matched with an aggressive attitude toward growth, makes Dunham-Bush a leader in global markets. Our product development is tailored to meet the specific needs of customers, building-by-building, country-by-country and region-by-region. No other HVAC/R manufacturer takes this approach to meeting your performance expectations.

CS3, Modular Central Station Air Handling Units, have an air volume range from 1000 to 56,000 cfm (1700 to 95,000 m³/hr) with new extruded aluminum frame profile. The entire product line features rigid construction, installation ease, control flexibility, high reliability and versatile functions, which is suitable for both commercial and industrial applications. The CS3 range is AHRI certified for 50Hz and 60Hz. ETL is listed for 60Hz only.

Features

The CS3 range of Air Handling Units from Dunham-Bush features an extruded aluminium frame profile that provides a high level of unit design and application flexibility necessary to meet the rising demand for improved Indoor Air Quality. The unit is constructed using rigid nylon corners and double skin polyurethane foam insulated panels. These units can be disassembled for shipment and reassembled at site. Internal joints are insulated with rigid PVC strip and PE foam to provide air-tight casing and minimize cold bridging.

The CS3 range is available in 17 models in horizontal and vertical formats with a wide range of options and accessories that can be selected from the Dunham-Bush SPEC electronic catalogue. CS3 Air handling Units can be configured to meet the requirements of all standard and many specialised applications.



Meeting IAQ Design Requirement

Double Skin “ Sandwich” panel construction has smooth inner surfaces for easy and effective cleaning to reduce risk of dirt and bacteria accumulation. The sandwich panels are injected with Polyurethane foam of 40kg/m³ density. Panel of nominal 1”[25mm] and 2”[50mm] thickness are available. The external surface of all panels is powder coated.

DUNHAM-BUSH CS3 Series

Quick Service Access

Access panels are easily removable by screwed type panel lock. Hinged access is also available.

Your Choice of Filtration

Various options of filter type, filter media and filter efficiency are available to meet the different air quality requirement.

Your Choice of Coils

Chilled water and DX cooling coils are manufactured from copper tubes with aluminum fins, copper fins, hydrophilic coated fins or other custom made coils. Heating can be hot water coil or electric heaters.

Air Tight Screwed Compression Latch



Three-way pitch drain pan design discharges condensate quickly and prevents microbial growth. Condensate pans of 304 stainless steel material are also available as an option.

Your Choice of Blower

Forward, Backward Inclined and Backward Airfoils Centrifugal fans which are AMCA certified are available. You can select class I, II or III fans to meet your required air flow, static pressure, performance and sound power. Blower shall be coupled with pulley and motors.

Forward Curved Fan Wheel (FS)



Airfoil Fan Wheel (AF)



Optional:

A wide choice of accessory sections – diffuser sections, mixing box sections, face and bypass damper sections, humidifier sections, reheating sections and heat recovery sections are available to meet the required air conditions application needs.

For outdoor installation, applications in corrosive or hazardous atmosphere, other material options are available for the CS3 range.

Special motor voltages and dual speed motors can be supplied.

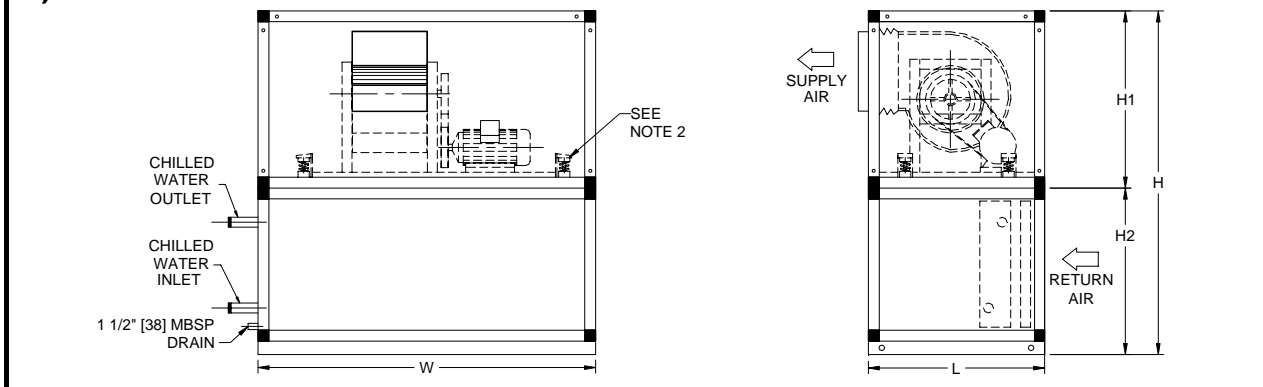
Frequency inverter drive for Variable Air Volume applications is also offered as an option.

MAXIMUM AIRFLOW

Model Size	12	22	32	40	48	64	80	100	120	150	180	210	240	270	320	420	520
Max. CFM [m ³ /hr]	1667 [2833]	2667 [4532]	3896 [6620]	4813 [8178]	5729 [9735]	7563 [12851]	9625 [16355]	12375 [21028]	14438 [24533]	17000 [28886]	22000 [37382]	25458 [43258]	28708 [48781]	31958 [54303]	40000 [67968]	45000 [76464]	56250 [95580]

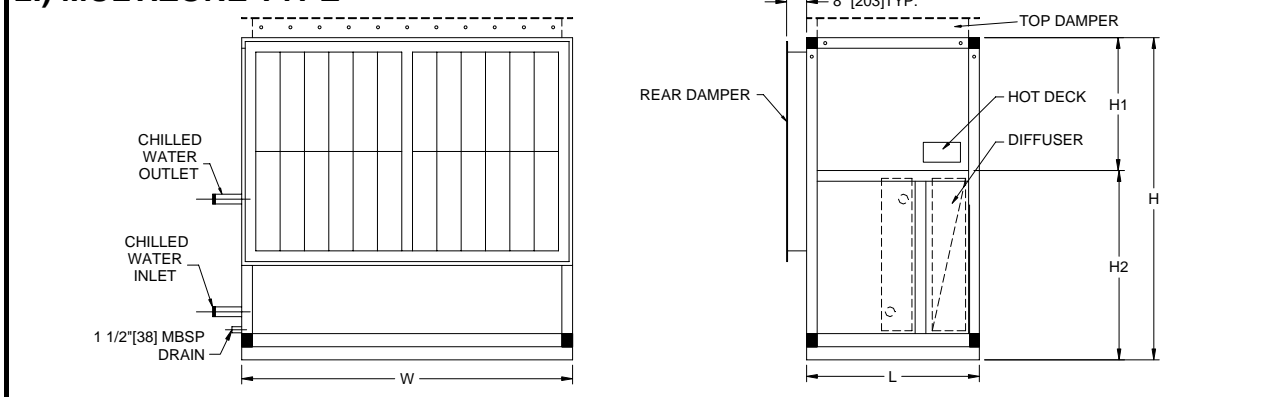
PHYSICAL DIMENSION

1.) VERTICAL TYPE



Model	1" Casing - inches [mm]					2" Casing - inches [mm]				
	H	W	H1	H2	L	H	W	H1	H2	L
12	60 5/8[1540]	33.1/16[840]	-	-	33 1/16[840]	61[1550]	33 7/16[850]	-	-	33 7/16[850]
22	68 1/2[1740]	48 13/16[1240]	-	-	33 1/16[840]	68 7/8[1750]	49 1/4[1250]	-	-	33 7/16[850]
32	76 3/8[1940]	48 13/16[1240]	-	-	33 1/16[840]	76 3/4[1950]	49 1/4[1250]	-	-	33 7/16[850]
40	84 1/4[2140]	56 11/16[1440]	-	-	33 1/16[840]	84 5/8[2150]	57 1/16[1450]	-	-	33 7/16[850]
48	84 1/4[2140]	64 9/16[1640]	-	-	40 15/16[1040]	84 5/8[2150]	65[1650]	-	-	41 3/8[1050]
64	85 7/8[2180]	80 5/16[2040]	40 15/16[1040]	44 7/8[1140]	40 15/16[1040]	86 5/8[2200]	80 3/4[2050]	41 3/8[1050]	45 1/4[1150]	41 3/8[1050]
80	101 1/2[2580]	80 5/16[2040]	48 13/16[1240]	52 3/4[1340]	48 13/16[1240]	102 3/8[2600]	80 3/4[2050]	49 1/4[1250]	53 1/8[1350]	49 1/4[1250]
100	109 7/16[2780]	80 5/16[2040]	48 13/16[1240]	60 5/8[1540]	48 13/16[1240]	110 1/4[2800]	80 3/4[2050]	49 1/4[1250]	61[1550]	49 1/4[1250]
120	117 5/16[2980]	80 5/16[2040]	48 13/16[1240]	68 1/2[1740]	48 13/16[1240]	118 1/8[3000]	80 3/4[2050]	49 1/4[1250]	68 7/8[1750]	49 1/4[1250]
150	133 1/16[3380]	80 5/16[2040]	56 11/16[1440]	76 3/8[1940]	56 11/16[1440]	133 7/8[3400]	80 3/4[2050]	57 1/8[1450]	76 3/4[1950]	57 1/16[1450]
180	NOT AVAILABLE					141 3/4[3600]	104 5/16[2650]	65[1650]	76 3/4[1950]	65[1650]
210	NOT AVAILABLE					150[3800]	112 3/16[2850]	65[1650]	84 5/8[2150]	65[1650]
240	NOT AVAILABLE					150[3800]	120 1/16[3050]	65[1650]	84 5/8[2150]	65[1650]

2.) MULTIZONE TYPE



Model	1" Casing - inches [mm]					2" Casing - inches [mm]				
	H	W	H1	H2	L	H	W	H1	H2	L
22	52 3/4[1340]	48 13/16[1240]	-	-	40 15/16[1040]	53 1/8[1350]	49 1/4[1250]	-	-	41 3/8[1050]
32	60 5/8[1540]	48 13/16[1240]	-	-	40 15/16[1040]	61[1550]	49 1/4[1250]	-	-	41 3/8[1050]
40	60 5/8[1540]	56 11/16[1440]	-	-	40 15/16[1040]	61[1550]	57 1/16[1450]	-	-	41 3/8[1050]
48	60 5/8[1540]	64 9/16[1640]	-	-	40 15/16[1040]	61[1550]	65[1650]	-	-	41 3/8[1050]
64	60 5/8[1540]	80 5/16[2040]	-	-	40 15/16[1040]	61[1550]	80 11/16[2050]	-	-	41 3/8[1050]
80	78[1980]	80 5/16[2040]	25 3/16[640]	52 3/4[1340]	48 13/16[1240]	78 3/4[2000]	80 11/16[2050]	25 9/16[650]	53 1/2[1350]	49 3/4[1250]
100	85 7/8[2180]	80 5/16[2040]	25 3/16[640]	60 5/8[1540]	48 13/16[1240]	86 5/8[2200]	80 11/16[2050]	25 9/16[650]	61[1550]	49 3/4[1250]
120	93 11/16[2380]	80 5/16[2040]	25 3/16[640]	68 1/2[1740]	56 11/16[1440]	94 1/2[2400]	80 11/16[2050]	25 9/16[650]	68 7/8[1750]	57 1/16[1450]
150	101 9/16[2580]	80 5/16[2040]	25 3/16[640]	76 3/8[1940]	56 11/16[1440]	102 3/8[2600]	80 11/16[2050]	25 9/16[650]	76 3/4[1950]	57 1/16[1450]
180	NOT AVAILABLE					102 3/8[2600]	104 5/16[2650]	25 9/16[650]	76 3/4[1950]	57 1/16[1450]
210	NOT AVAILABLE					110 1/4[2800]	112 3/16[2850]	25 9/16[650]	84 5/8[2150]	65[1650]
240	NOT AVAILABLE					110 1/4[2800]	120 1/16[3050]	25 9/16[650]	84 5/8[2150]	65[1650]

Notes: 1. Horizontal type: 1" Casing – Model 12 to 240,
2" casing – Model 12 to 520

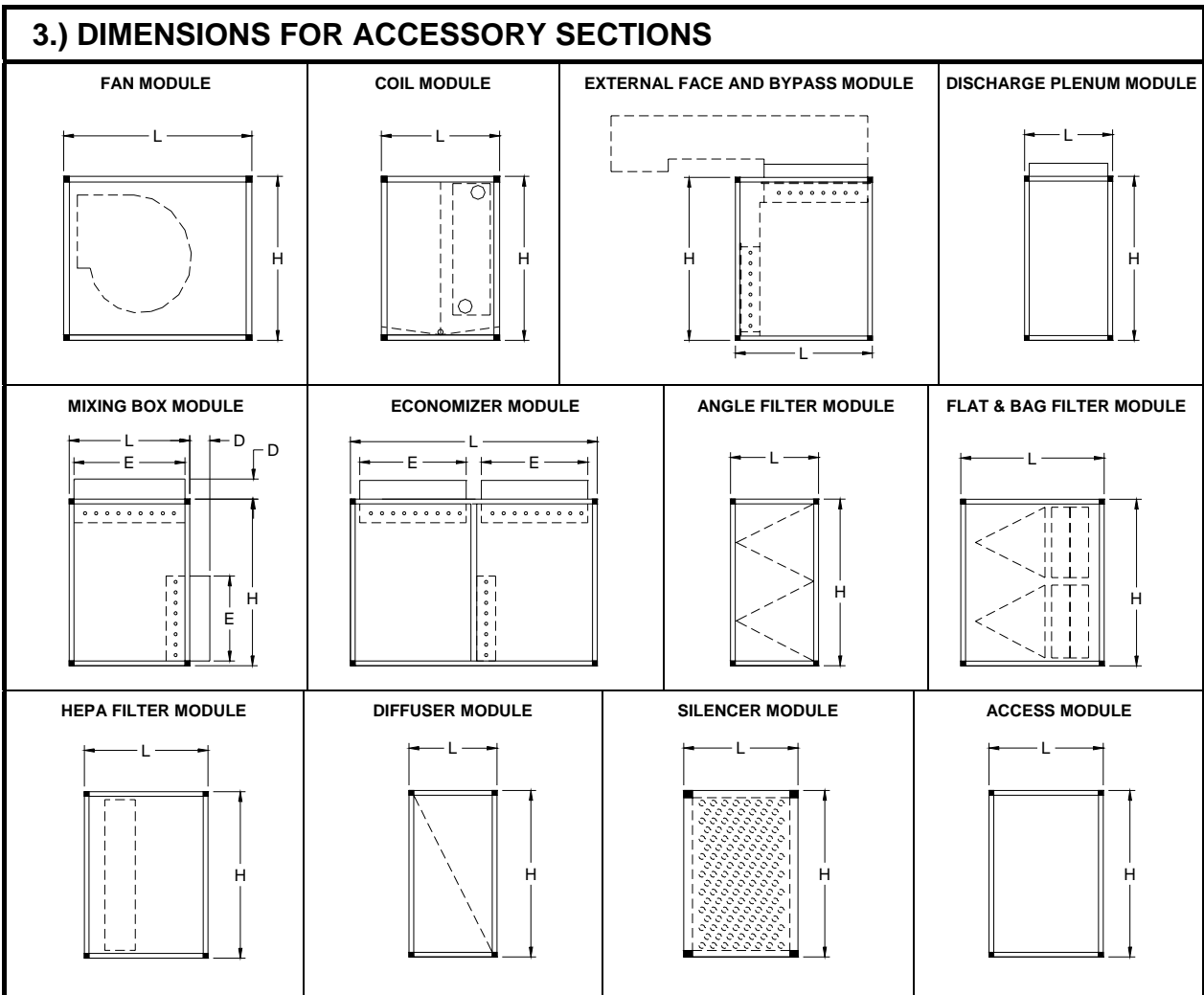
Refer to page 5, Dimensions For Accessory Sections for unit configuration and dimensions.

2. Height (H) includes the unit base.

3. Spring type isolators are for standard fan of model AF64 onwards and FS80 onwards only. The rest are rubber isolator mounting.

4. L/H motor and R/H piping shown.

PHYSICAL DIMENSION



Model	Unit Height (H)	Unit Width (W)	Fan	Coil (Long)	Coil (Short)	External Face & Bypass	Mixing Box	Econo- mizer	Flat & Bag / Angle Filter	Hepa Filter	Diffuser	Silencer	Access	Discharge Plenum	Damper / Discharge Plenum Opening Size	
															Width (E)	Length (L)
															Inches [mm]	
Module															Module Length (M)	
12	4	4	4	4	3	2	2	4	3	5	2	5	3	2	8 3/4[210]	15 3/4[400]
22	4	6	4	4	3	2	2	4	3	5	2	5	3	2	8 3/4 [210]	27 9/16[700]
32	5	6	4	4	3	3	3	6	3	5	2	5	3	3	12 3/16[310]	27 9/16[700]
40	5	7	4	4	3	3	3	6	3	5	2	5	3	3	12 3/16[310]	35 7/16[900]
48	5	8	5	4	3	3	3	6	3	5	2	5	3	3	12 3/16[310]	43 5/16[1100]
64	5	10	5	4	3	3	3	6	3	5	2	5	3	3	12 3/16[310]	55 1/8[1400]
80	6	10	6	4	3	3	3	6	3	5	3	5	3	3	16 1/8[410]	55 1/8[1400]
100	7	10	6	4	3	4	4	8	3	5	3	5	3	4	20[510]	55 1/8[1400]
120	8	10	6	4	3	4	4	8	3	5	4	5	3	4	20[510]	63[1600]
150	9	10	7	4	3	4	4	8	3	5	4	5	3	4	24[610]	63[1600]
180	9	13	8	4	3	5	5	10	3	5	4	5	3	5	24[710]	63[1600]
210	10	14	8	4	3	5	5	10	3	5	5	5	3	5	24[710]	70 7/8[1800]
240	10	15	8	4	3	5	5	10	3	5	5	5	3	5	24[710]	78 3/4[2000]
270	10	17	8	4	3	5	5	10	3	5	5	5	3	5	31 7/8[810]	78 3/4[2000]
320	11	18	9	4	3	6	6	6+6	3	5	5	5	3	6	35 13/16[910]	78 3/4[2000]
420	11	20	10	4	3	7	7	7+7	3	5	5	5	3	7	43 11/16[1110]	90 9/16[2300]
520	11	21	10	6	5	8	8	8+8	3	5	5	5	3	8	51 9/16[1310]	90 9/16[2300]

- Notes: 1.) To calculate actual unit height, **1 Module = 7 7/8" [200mm]**
Unit base = 4" [100mm]
eg. 1" Casing For Model 12, Unit Height (H) = (4 x 7 7/8"[200mm]) + 1 1/2"[40mm] + 4"[100mm] = 37"[940mm] (includes unit base)
For Model 210, Unit Height (H) = (10 x 7 7/8"[200mm]) + 1 1/2"[40mm] + 4"[100mm] = 84 1/4"[2140mm] (includes unit base)
eg. 2" Casing For Model 12, Unit Height (H) = (4 x 7 7/8"[200mm]) + 2"[50mm] + 4"[100mm] = 37 1/2"[950mm] (includes unit base)
For Model 210, Unit Height (H) = (10 x 7 7/8"[200mm]) + 2"[50mm] + 4"[100mm] = 84 5/8" [2150mm] (includes unit base)
- 2.) To calculate actual unit width and length, **1 Module = 7 7/8" [200mm]**
1" Casing, For all Models, Unit Width (W) = (4 x 7 7/8"[200mm]) + 1 1/2"[40mm] = 33"[840mm]
2" Casing, For all Models, Unit Width (W) = (4 x 7 7/8"[200mm]) + 2"[50mm] = 33 1/2"[850mm]
- 3.) Maximum shipping length, if,
Unit Width <= 10M, Lmax = 15M
Unit Width > 10M, Lmax = 10M



FAN DATA

FORWARD CURVED FANS – FS (Sheet 1 of 2)

Model	Fan Model	Air Volume		Coil Face Vel.		Total Static Pressure															
						0.5"wg [0.13kPa]		0.75"wg [0.19kPa]		1"wg [0.25kPa]		1.25"wg [0.31kPa]		1.50"wg [0.38kPa]		1.75"wg [0.44kPa]		2.00"wg [0.50kPa]		2.25"wg [0.56kPa]	
		cfm	m ³ /hr	fpm	m/sec	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
FS 12	9 - 7	1000	1699	400	2.03	814	0.19	969	0.25	1113	0.31	1252	0.39	1383	0.47	1510	0.55	1513	0.61	1622	0.70
		1125	1912	450	2.29	837	0.23	981	0.30	1117	0.37	1244	0.44	1369	0.52	1489	0.62	1485	0.67	1590	0.76
		1250	2124	500	2.54	866	0.30	1001	0.37	1127	0.43	1248	0.52	1363	0.59	1476	0.68	1471	0.75	1569	0.84
		1375	2336	550	2.79	902	0.35	1025	0.43	1144	0.52	1258	0.59	1368	0.68	1473	0.77	1463	0.84	1555	0.92
		1500	2549	600	3.05	945	0.44	1052	0.51	1167	0.61	1273	0.68	1378	0.77	1479	0.87	1463	0.93	1550	1.02
FS 22	10 - 8	1575	2676	315	1.60	795	0.37	914	0.46	1033	0.56	1151	0.66	1265	0.78	1375	0.91	1375	1.02	1469	1.17
		1800	3059	360	1.83	845	0.48	947	0.59	1052	0.69	1158	0.81	1261	0.92	1362	1.06	1358	1.16	1446	1.28
		2025	3441	405	2.06	901	0.65	992	0.74	1086	0.87	1178	0.99	1271	1.11	1363	1.24	1350	1.34	1434	1.46
		2250	3823	450	2.29	962	0.84	1045	0.95	1128	1.06	1211	1.20	1294	1.33	1378	1.46	1357	1.55	1433	1.67
		2475	4206	495	2.51	1028	1.08	1102	1.18	1178	1.30	1253	1.43	1329	1.57	1403	1.73	1374	1.82	1444	1.95
2700	4588	540	2.74	1096	1.35	1163	1.46	1231	1.60	1300	1.73	1370	1.87	1439	2.04	1400	2.12	1465	2.27		
FS 32	12 - 9	1920	3262	290	1.47	643	0.39	758	0.51	865	0.64	966	0.77	1062	0.90	1154	1.06	1157	1.18	1236	1.34
		2240	3806	340	1.73	675	0.53	778	0.65	876	0.78	968	0.92	1057	1.08	1142	1.24	1137	1.35	1212	1.54
		2560	4350	390	1.98	715	0.70	807	0.84	897	0.97	982	1.13	1064	1.30	1143	1.47	1132	1.59	1202	1.76
		2880	4894	435	2.21	761	0.92	842	1.08	925	1.22	1005	1.39	1081	1.56	1154	1.74	1137	1.84	1203	2.05
		3200	5437	485	2.46	815	1.21	885	1.35	958	1.52	1031	1.69	1103	1.87	1173	2.07	1151	2.17	1212	2.37
3520	5981	535	2.72	871	1.53	932	1.69	997	1.87	1064	2.05	1131	2.26	1198	2.44	1170	2.54	1228	2.76		
3840	6525	580	2.95	934	1.95	986	2.11	1043	2.29	1102	2.48	1164	2.67	1225	2.89	1194	3.00	1248	3.18		
FS 40	15 - 11	2800	4758	335	1.70	527	0.53	618	0.66	724	0.86	821	1.06	910	1.30	990	1.51	988	1.63	1052	1.88
		3200	5437	385	1.96	562	0.70	632	0.84	715	1.00	807	1.24	895	1.46	977	1.71	975	1.91	1041	2.14
		3600	6117	430	2.18	604	0.95	659	1.08	724	1.22	799	1.42	880	1.66	961	1.91	962	2.10	1028	2.39
		4000	6797	480	2.44	650	1.24	697	1.38	749	1.52	808	1.68	876	1.90	949	2.18	949	2.37	1015	2.64
		4400	7476	530	2.69	699	1.60	739	1.73	783	1.87	831	2.05	886	2.22	947	2.48	939	2.66	1001	2.94
4800	8156	575	2.92	748	2.00	785	2.16	824	2.31	865	2.48	909	2.65	959	2.87	941	3.01	995	3.29		
FS 48	15 - 11	3018	5128	300	1.52	545	0.62	623	0.75	717	0.95	814	1.16	902	1.38	983	1.62	982	1.79	1046	1.99
		3521	5983	350	1.78	596	0.90	653	1.02	719	1.17	800	1.39	884	1.64	965	1.87	965	2.05	1031	2.34
		4024	6838	400	2.03	654	1.25	699	1.39	750	1.53	809	1.71	876	1.94	949	2.20	948	2.39	1014	2.66
		4527	7692	450	2.29	715	1.71	753	1.85	795	2.00	841	2.18	892	2.38	949	2.60	938	2.76	998	3.05
		5030	8547	500	2.54	778	2.29	813	2.43	848	2.60	886	2.76	928	2.96	972	3.16	947	3.24	997	3.52
5533	9402	550	2.79	842	2.98	874	3.14	906	3.30	938	3.48	972	3.67	1010	3.87	973	3.93	1014	4.18		
6036	10256	600	3.05	908	3.78	937	3.97	966	4.16	998	4.32	1026	4.52	1057	4.73	1011	4.77	1044	5.00		
FS 64	15 - 15	5132	8720	390	1.98	649	1.76	689	1.91	733	2.06	783	2.25	842	2.49	907	2.76	977	3.10	1050	3.47
		5773	9809	440	2.24	713	2.44	746	2.58	783	2.75	822	2.92	864	3.11	914	3.35	969	3.64	1030	4.36
		6415	10900	490	2.49	778	3.26	808	3.42	838	3.59	871	3.76	907	3.96	942	4.14	987	4.44	1032	4.72
		7056	11990	540	2.74	844	4.27	871	4.44	898	4.62	927	4.81	957	5.00	989	5.22	1022	5.44	1058	5.69
		7698	13080	590	3.00	911	5.48	936	5.65	962	5.86	986	6.04	1014	6.26	1040	6.48	1068	6.68	1099	6.94
FS 80	18 - 18	5250	8921	325	1.65	438	1.03	511	1.28	585	1.59	659	1.96	730	2.35	798	2.76	863	3.24	925	3.71
		6000	10195	375	1.91	462	1.38	525	1.64	589	1.93	654	2.27	718	2.66	783	3.13	845	3.59	904	4.05
		6750	11470	418	2.12	491	1.80	547	2.10	603	2.40	659	2.72	717	3.11	775	3.55	832	4.02	888	4.53
		7500	12744	464	2.36	523	2.35	573	2.66	622	2.96	673	3.31	724	3.69	776	4.12	827	4.55	880	4.52
		8250	14018	511	2.60	557	3.01	602	3.31	647	3.67	692	4.01	737	4.40	785	4.81	831	5.24	878	5.71
9000	15293	557	2.83	592	3.77	633	4.10	675	4.47	716	4.84	757	5.23	799	5.65	842	6.11	884	6.52		
FS 100	450	6180	10501	320	1.63	431	1.26	501	1.59	567	1.93	630	2.33	692	2.76	751	3.20	808	3.68	862	4.13
		7210	12251	370	1.88	456	1.76	520	2.13	579	2.50	637	2.92	692	3.35	746	3.76	799	4.29	850	4.77
		8240	14001	425	2.16	485	2.37	544	2.79	598	3.21	651	3.64	701	4.08	750	4.55	799	5.09	846	5.57
		9270	15752	475	2.41	517	3.13	572	3.60	622	4.06	671	4.55	717	5.01	762	5.48	806	6.05	850	6.55
		10300	17502	530	2.69	551	4.06	600	4.57	649	5.09	693	5.61	737	6.14	779	6.64	821	7.22	861	7.73
11330	19252	585	2.97	586	5.15	632	5.72	678	6.30	670	6.85	716	7.44	760	8.01	839	8.60	878	9.19		
FS 120	500	7140	12132	305	1.55	402	1.38	471	1.78	535	2.20	594	2.66	651	3.14	708	3.72	760	4.27	814	4.96
		8330	14154	355	1.80	422	1.88	486	2.30	545	2.77	599	3.24	652	3.77	703	4.35	752	4.89	800	5.55
		9520	16176	410	2.08	446	2.51	505	3.00	559	3.50	611	4.01	660	4.57	708	5.15	753	5.72	797	6.38
		10710	18198	460	2.34	474	3.30	526	3.81	578	4.38	626	4.93	673	5.54	717	6.15	759	6.73	801	7.43
		11900	20220	510	2.59	503	4.25	551	4.81	599	5.42	645	6.04	689	6.66	731	7.35	771	7.95	811	8.69
13090	22243	560	2.84	535	5.40	579	6.02	623	6.68	665	6.26	708	7.99	748	8.70	786	9.41	824	10.12		
14280	24265	610	3.10	568	6.76	609	7.42	649	8.11	689	8.82	728	9.56	766	10.25	803	11.08	839	11.78		
FS 150	560	8580	14579	295	1.50	348	1.51	410	1.97	468	2.46	522	3.02	575	3.65	624	4.26	672	5.00	716	5.72
		10010	17009	345	1.75	364	2.04	421	2.55	474	3.10	524	3.68	573	4.29	618	4.92	663	5.67	707	6.40
		11440	19439	390	1.98	383	2.70	437	3.29	485	3.87	533	4.47	577	5.11	619	5.77	661	6.52	701	7.24
		12870	21869	440	2.24	404	3.51	454	4.14	500	4.79	544	5.46	585	6.14	625	6.81	664	7.61	701	8.31
		14300	24299	490	2.49	427	4.51	474	5.19	517	5.89	558	6.61	597	7.36	634	8.07	672	8.89	707	9.65
15730	26728	540	2.74	452	5.69	494	6.42	536	7.19	575	7.94	612	8.77	648	9.56	682	10.35	717	11.24		
17160	29158	590	3.00	478	7.09	518	7.92	556	8.73	593	9.56	619	10.36	649	11.27	696	12.11	728	13.01		
FS 180	560	10800	18351	300	1.52	374	2.40	430	2.92	480	3.48	527	4.06	574	4.72	618	5.40	661	6.08	702	6.41
		12600	21410	350	1.78																

FAN DATA

FORWARD CURVED FANS – FS (Sheet 2 of 2)

Model	Fan Model	Air Volume		Coil Face Vel.		Total Static Pressure													
						2.50"wg [0.63kPa]		2.75"wg [0.69kPa]		3.00"wg [0.75kPa]		3.25"wg [0.81kPa]		3.50"wg [0.88kPa]		3.75"wg [0.94kPa]		4.00"wg [1.00kPa]	
		cfm	m³/hr	fpm	m/sec	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
FS 12	9 - 7	1000	1699	400	2.03	1727	0.80	1826	0.87	1919	0.98	2009	1.09	2094	1.21	2177	1.33	2258	1.42
		1125	1912	450	2.29	1690	0.87	1788	0.95	1883	1.07	1973	1.16	2061	1.25	2143	1.38	2224	1.51
		1250	2124	500	2.54	1661	0.92	1757	1.04	1848	1.16	1935	1.25	2023	1.37	2107	1.47	2189	1.58
		1375	2336	550	2.79	1647	1.02	1736	1.13	1819	1.22	1907	1.35	1990	1.46	2071	1.58	2151	1.69
		1500	2549	600	3.05	1638	1.12	1721	1.22	1805	1.35	1886	1.46	1963	1.56	2042	1.69	2121	1.82
FS 22	10 - 8	1575	2676	315	1.60	1558	1.33	1643	1.46	1724	1.60	1803	1.75	1879	1.89	1951	2.01	2019	2.16
		1800	3059	360	1.83	1534	1.45	1617	1.60	1698	1.79	1776	1.96	1851	2.13	1923	2.29	1994	2.46
		2025	3441	405	2.06	1517	1.62	1597	1.76	1675	1.95	1751	2.13	1825	2.30	1897	2.50	1967	2.70
		2250	3823	450	2.29	1510	1.84	1584	1.99	1659	2.17	1732	2.33	1804	2.50	1875	2.71	1943	2.92
		2475	4206	495	2.51	1515	2.10	1584	2.25	1654	2.43	1722	2.60	1790	2.79	1858	2.98	1923	3.15
2700	4588	540	2.74	1530	2.43	1594	2.59	1659	2.75	1722	2.89	1787	3.11	1850	3.30	1911	3.48		
FS 32	12 - 9	1920	3262	290	1.47	1314	1.52	1388	1.72	1461	1.89	1530	2.08	1595	2.29	1660	2.49	1722	2.68
		2240	3806	340	1.73	1284	1.71	1357	1.91	1426	2.09	1492	2.27	1558	2.50	1622	2.72	1684	2.94
		2560	4350	390	1.98	1269	1.92	1336	2.13	1401	2.33	1465	2.53	1527	2.76	1589	2.97	1648	3.17
		2880	4894	435	2.21	1266	2.23	13	2.43	1388	2.62	1448	2.81	1508	3.05	1566	3.26	1621	3.48
		3200	5437	485	2.46	1271	2.55	1331	2.79	1386	2.98	1443	3.21	1499	3.42	1552	3.60	1607	3.85
3520	5981	535	2.72	1284	2.97	1339	3.17	1393	3.38	1447	3.64	1499	3.86	1550	4.09	1602	4.34		
3840	6525	580	2.95	1302	3.42	1354	3.64	1406	3.88	1456	4.10	1505	4.30	1555	4.59	1604	4.85		
FS 40	15 - 11	2800	4758	335	1.70	1112	2.10	1170	2.34	1226	2.59	1278	2.83	1330	3.06	1378	3.29	1427	3.56
		3200	5437	385	1.96	1102	2.35	1161	2.60	1215	2.87	1268	3.13	1319	3.38	1369	3.68	1416	3.96
		3600	6117	430	2.18	1091	2.67	1149	2.94	1205	3.20	1259	3.42	1309	3.72	1359	4.04	1406	4.34
		4000	6797	480	2.44	1077	2.93	1136	3.24	1193	3.55	1246	3.86	1298	4.17	1348	4.43	1396	4.69
		4400	7476	530	2.69	1063	3.24	1122	3.55	1179	3.86	1234	4.19	1285	4.56	1336	4.90	1384	5.23
4800	8156	575	2.92	1053	3.60	1109	3.92	1167	4.25	1220	4.59	1272	4.93	1323	5.24	1371	5.65		
FS 48	15 - 11	3018	5128	300	1.52	1107	2.23	1165	2.49	1220	2.72	1273	2.98	1324	3.25	1373	3.52	1420	3.77
		3521	5983	350	1.78	1093	2.62	1152	2.88	1207	3.11	1261	3.37	1311	3.67	1361	3.96	1408	4.25
		4024	6838	400	2.03	1076	2.94	1135	3.25	1192	3.58	1246	3.88	1298	4.19	1347	4.47	1396	4.72
		4527	7692	450	2.29	1059	3.37	1118	3.65	1174	4.00	1229	4.29	1281	4.66	1332	5.02	1380	5.37
		5030	8547	500	2.54	1050	3.82	1103	4.14	1158	4.48	1211	4.83	1264	5.17	1314	5.54	1364	5.88
5533	9402	550	2.79	1055	4.40	1102	4.73	1149	5.05	1199	5.42	1247	5.77	1297	6.17	1345	6.52		
6036	10256	600	3.05	1079	5.23	1117	5.48	1156	5.76	1199	6.11	1240	6.42	1286	6.85	1332	7.23		
FS 64	15 - 15	5132	8720	390	1.98	1118	3.91	1181	4.30										
		5773	9809	440	2.24	1092	4.36	1157	4.79	1217	5.23								
		6415	10900	490	2.49	1084	5.02	1138	5.42	1194	5.84								
		7056	11990	540	2.74	1098	6.01	1140	6.32	1188	6.66	1235	7.06						
		7698	13080	590	3.00	1129	7.16	1165	7.50										
FS 80	18 - 18	5250	8921	325	1.65	983	4.21	1037	4.72	1089	5.18								
		6000	10195	375	1.91	962	4.57	1017	5.13	1069	5.67	1120	6.25						
		6750	11470	418	2.12	943	5.05	997	5.57	1049	6.08	1099	6.73						
		7500	12744	464	2.36	931	5.59	982	6.15	1031	6.70	1080	7.31	1128	7.87				
		8250	14018	511	2.60	926	6.23	972	6.76	1019	7.36	1065	7.99	1110	8.58				
9000	15293	557	2.83	928	7.07	969	7.53	1014	8.15	1057	8.72	1099	9.33						
FS 100	450	6180	10501	320	1.63	914	4.69	964	5.22	1011	5.69	1057	6.26	1100	6.88	1141	7.47	1182	8.06
		7210	12251	370	1.88	848	5.34	948	5.90	994	6.40	1039	7.06	1084	7.69	1126	8.30	1166	8.86
		8240	14001	425	2.16	893	6.15	938	6.72	982	7.26	1026	7.94	1068	8.60	1109	9.19	1149	9.81
		9270	15752	475	2.41	894	7.16	935	7.73	976	8.30	1019	8.98	1058	9.61	1097	10.20	1136	10.96
		10300	17502	530	2.69	901	8.36	940	8.93	980	9.59	1018	10.24						
11330	19252	585	2.97	915	9.78	952	10.37												
FS 120	500	7140	12132	305	1.55	864	5.63	913	6.26	961	7.09	1006	7.94	1052	8.78	1094	9.61	1136	10.44
		8330	14154	355	1.80	848	6.23	892	6.85	938	7.67	983	8.47	1025	9.23	1066	9.97	1107	10.92
		9520	16176	410	2.08	840	7.03	883	7.67	925	8.48	966	9.24	1005	9.97	1045	10.81	1085	11.74
		10710	18198	460	2.34	842	8.08	882	8.78	921	9.54	958	10.25	996	10.99	1034	11.90	1070	12.78
		11900	20220	510	2.59	849	9.31	887	10.10	923	10.85	958	11.52	994	12.41	1029	13.25	1063	14.02
13090	22243	560	2.84	860	10.87	896	11.65	930	12.33	964	13.19	998	14.03	1031	14.80	1063	15.59		
14280	24265	610	3.10	874	12.61	908	13.36	941	14.19	974	15.04	1006	15.80	1037	16.64	1069	17.62		
FS 150	560	8580	14579	295	1.50	759	6.42	799	7.28	838	8.14	876	8.98	912	9.78	946	10.61	977	11.58
		10010	17009	345	1.75	748	7.14	788	8.03	826	8.89	863	9.69	899	10.60	933	11.61	967	12.60
		11440	19439	390	1.98	741	8.06	779	8.94	816	9.74	852	10.61	888	11.63	922	12.61	955	13.57
		12870	21869	440	2.24	740	9.18	776	10.02	810	10.79	846	11.82	880	12.79	912	13.72	943	14.59
		14300	24299	490	2.49	743	10.54	776	11.32	810	12.25	843	13.23	874	14.11	905	15.01	937	16.15
15730	26728	540	2.74	749	12.08	782	12.95	814	13.94	845	14.82	874	15.72	905	16.83	935	17.87		
17160	29158	590	3.00	759	13.85	790	14.87	820	15.78	850	16.72	880	17.80	907	18.79	935	19.71		
FS 180	560	10800	18351	300	1.52	744	7.67	782	8.43	820	9.33	857	10.27	893	11.19	927	12.06	960	12.99
		12600	21410	350	1.78	740	8.97	776	9.74	811	10.62	847	11.61	881	12.54	913	13.40	946	14.43
		14400	24468	400	2.03	743	10.64	777	11.45	810	12.34	843	13.32	874	14.24	905	15.08	937	16.24
		16200	27527	450	2.29	753	12.69	784	13.50	815	14.50	846	15.49	876	16.37	905	17.35	935	18.48
		18000	30586	500	2.54	766	15.12	796	15.98	826	17.06	855	18.02	883	18.93	911	20.10	938	21.18
19800	33644	550	2.79	784	17.91	813	18.97	840	20.01	867	20.90	895	22.10	922	23.24	947	24.26		
21600	36703	600	3.05	804	21.25	832	22.38	858	23.34	885	24.53	911	25.68	935	26.70	960	27.83		
FS 240/210	630	13950	23704	295	1.50	674	10.45	710	11.61	745	12.78	779	14.02	811	15.18	843	16.33	872	17.63
		16275	27654	350	1.78	664	12.08	698	13.28										



FAN DATA

BACKWARD INCLINED AIR FOIL – BF/ AF (Sheet 1 of 4)

Model	Fan Model	Air Volume		Coil Face Vel.		Total Static Pressure									
						1.25"wg [0.31kPa]		1.5"wg [0.38 kPa]		1.75"wg [0.44 kPa]		2"wg [0.50 kPa]		2.25"wg [0.56 kPa]	
		cfm	m³/hr	fpm	m/sec	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
FS 22	BDB 250	1575	2676	315	1.60	2338	0.56	2461	0.65	2581	0.74	2696	0.83	2807	0.91
		1800	3059	360	1.83	2500	0.69	2613	0.78	2723	0.88	2831	0.97	2935	1.08
		2025	3441	405	2.06	2672	0.84	2778	0.94	2880	1.05	2979	1.15	3077	1.27
		2250	3823	450	2.29	2849	1.02	2951	1.12	3048	1.24	3141	1.36	3232	1.47
		2475	4206	495	2.51	3029	1.22	3130	1.34	3223	1.47	3312	1.59	3399	1.72
		2700	4588	540	2.74	3210	1.46	3310	1.59	3402	1.72	3489	1.86	3572	2.00
FS 32	BDB 280	1920	3262	290	1.47	2044	0.65	2156	0.75	2263	0.87	2368	0.97	2469	1.09
		2240	3806	340	1.73	2202	0.83	2304	0.94	2403	1.06	2499	1.18	2593	1.31
		2560	4350	390	1.98	2373	1.03	2468	1.16	2559	1.30	2647	1.43	2734	1.56
		2880	4894	435	2.21	2551	1.28	2642	1.43	2727	1.60	2809	1.72	2889	1.87
		3200	5437	485	2.46	2731	1.59	2819	1.74	2903	1.89	2981	2.05	3057	2.21
		3520	5981	535	2.72	2912	1.95	2999	2.11	3081	2.27	3158	2.43	3231	2.61
3840	6525	580	2.95	3096	2.34	3180	2.52	3261	2.70	3338	2.89	3410	3.07		
AF 40	ADA 315 TM	2400	4078	300	1.52	1785	0.79	1884	0.91	1978	1.05	2069	1.17	2157	1.30
		2800	4758	350	1.78	1923	1.00	2012	1.13	2099	1.29	2184	1.43	2266	1.57
		3200	5437	400	2.03	2070	1.25	2153	1.42	2234	1.56	2313	1.73	2389	1.89
		3600	6117	450	2.29	2227	1.56	2304	1.74	2379	1.91	2453	2.08	2523	2.26
		4000	6797	500	2.54	2392	1.94	2463	2.12	2533	2.31	2601	2.49	2667	2.68
		4400	7476	550	2.79	2561	2.38	2627	2.56	2693	2.77	2756	2.98	2819	3.18
4800	8156	600	3.05	2735	2.87	2796	3.08	2858	3.30	2918	3.52	2976	3.74		
AF 48	355 TM	3015	5123	300	1.52	1585	0.96	1673	1.11	1757	1.27	1838	1.43	1916	1.60
		3517	5976	350	1.78	1706	1.22	1796	1.39	1884	1.56	1969	1.74	2041	1.91
		4020	6831	400	2.03	1837	1.53	1911	1.73	1982	1.90	2052	2.11	2120	2.30
		4522	7684	450	2.29	1975	1.90	2044	2.11	2110	2.31	2176	2.53	2239	2.74
		5025	8538	500	2.54	2120	2.34	2183	2.59	2247	2.81	2307	3.04	2367	3.27
		5527	9391	550	2.79	2269	2.87	2329	3.11	2387	3.37	2444	3.61	2501	3.86
6030	10246	600	3.05	2423	3.48	2479	3.74	2533	4.00	2587	4.28	2638	4.55		
AF 64	400 TM	3852	6545	300	1.52	1328	1.18	1400	1.35	1468	1.54	1536	1.73	1600	1.92
		4494	7636	350	1.78	1431	1.49	1497	1.69	1560	1.91	1622	2.12	1682	2.33
		5136	8727	400	2.03	1543	1.88	1604	2.10	1662	2.49	1720	2.58	1776	2.80
		5778	9818	450	2.29	1661	2.34	1718	2.60	1772	2.84	1826	3.10	1878	3.37
		6420	10909	500	2.54	1785	2.89	1838	3.18	1888	3.46	1938	3.72	1987	4.01
		7062	12000	550	2.79	1913	3.55	1961	3.85	2009	4.14	2055	4.44	2101	4.75
7704	13091	600	3.05	2044	4.30	2089	4.63	2133	4.94	2177	5.27	2220	5.60		
AF 80	450 TM	4500	7646	300	1.52	1148	1.33	1214	1.55	1279	1.76	1340	1.99	1400	2.23
		5250	8921	350	1.78	1230	1.66	1292	1.91	1351	2.16	1408	2.40	1464	2.67
		6000	10195	400	2.03	1319	2.08	1377	2.34	1432	2.62	1485	2.89	1537	3.18
		6750	11470	450	2.29	1415	2.58	1468	2.85	1519	3.15	1569	3.47	1618	3.76
		7500	12744	500	2.54	1515	3.14	1565	3.47	1612	3.79	1658	4.12	1705	4.46
		8250	14018	550	2.79	1619	3.82	1664	4.18	1709	4.52	1753	4.88	1795	5.24
9000	15293	600	3.05	1725	4.60	1769	4.98	1811	5.35	1851	5.73	1892	6.13		
AF 100	500 TM	6180	10501	300	1.52	1036	1.83	1093	2.12	1148	2.40	1201	2.70	1252	3.01
		7210	12251	350	1.78	1117	2.34	1169	2.66	1218	2.98	1268	3.31	1314	3.64
		8240	14001	400	2.03	1205	2.97	1252	3.31	1298	3.67	1343	4.02	1386	4.39
		9270	15752	450	2.29	1299	3.71	1341	4.09	1384	4.48	1426	4.88	1466	5.27
		10300	17502	500	2.54	1396	4.60	1437	5.01	1475	5.44	1513	5.86	1551	6.31
		11330	19252	550	2.79	1498	5.65	1534	6.11	1571	6.56	1607	7.02	1641	7.48
12360	21002	600	3.05	1601	6.88	1636	7.36	1669	7.85	1703	8.35	1736	8.85		
AF 120	500 TM	7170	12183	300	1.52	1113	2.31	1166	2.64	1215	2.96	1265	3.29	1312	3.60
		8365	14214	350	1.78	1215	3.05	1263	3.39	1308	3.75	1352	4.12	1396	4.48
		9560	16244	400	2.03	1326	3.95	1368	4.34	1409	4.73	1450	5.14	1489	5.55
		10755	18275	450	2.29	1441	5.05	1479	5.48	1517	5.90	1553	6.36	1590	6.81
		11950	20305	500	2.54	1559	6.36	1594	6.84	1628	7.31	1663	7.80	1697	8.30
		13145	22336	550	2.79	1681	7.94	1714	8.45	1746	8.97	1777	9.49	1809	10.03
14340	24367	600	3.05	1806	9.77	1835	10.32	1865	10.90	1895	11.45	1924	12.02		
AF 150	560 TM	8580	14579	300	1.52	975	2.70	1022	3.08	1069	3.47	1113	3.86	1157	4.27
		10010	17009	350	1.78	1061	3.52	1103	3.95	1145	4.38	1187	4.81	1226	5.27
		11440	19439	400	2.03	1153	4.53	1192	5.00	1230	5.48	1267	5.97	1304	6.47
		12870	21869	450	2.29	1249	5.76	1285	6.28	1320	6.81	1354	7.32	1388	7.89
		14300	24299	500	2.54	1350	7.22	1382	7.78	1415	8.36	1447	8.95	1478	9.53
		15730	26728	550	2.79	1453	8.97	1484	9.57	1513	10.20	1543	10.83	1572	11.48
17160	29158	600	3.05	1559	10.99	1587	11.67	1615	12.34	1642	13.03	1669	13.71		
AF 180/210	630 TM	10800	18351	300	1.52	867	3.35	909	3.82	952	4.30	991	4.79	1030	5.30
		12600	21410	350	1.78	943	4.36	982	4.89	1020	5.43	1056	5.97	1092	6.53
		14400	24468	400	2.03	1026	5.61	1060	6.19	1095	6.79	1128	7.39	1161	8.01
		16200	27527	450	2.29	1111	7.11	1143	7.77	1174	8.43	1205	9.09	1236	9.76
		18000	30586	500	2.54	1201	8.94	1230	9.65	1259	10.36	1288	11.08	1314	11.82
		19800	33644	550	2.79	1293	11.10	1320	11.86	1346	12.65	1372	13.42	1399	14.21
21600	36703	600	3.05	1386	13.61	1412	14.45	1437	15.29	1461	16.12	1484	16.97		
AF 240	710 TM	13950	23704	300	1.52	784	4.40	821	5.00	857	5.61	892	6.25	926	6.89
		16275	27654	350	1.78	854	5.76	888	6.43	921	7.11	953	7.82	984	8.53
		18600	31605	400	2.03	930	7.43	960	8.18	990	8.95	1020	9.72	1048	10.50
		20925	35556	450	2.29	1009	9.48	1037	10.30	1065	11.14	1091	11.99	1118	12.86
		23250	39506	500	2.54	1092	11.91	1118	12.83	1142	13.75	1167	14.69	1192	15.62
		25575	43457	550	2.79	1176	14.83	1200	15.83	1224	16.82	1245	17.83	1269	18.85
27900	47408	600	3.05	1263	18.24	1284	19.30	1306	20.38	1328	21.47	1348	22.57		
AF 270	710 TM	16250	27612	300	1.52	854	5.73	887	6.40	920	7.10	952	7.80	983	8.51
		19000	32285	350	1.78	943	7.76	973	8.52	1002	9.29	1031	10.08	1059	10.88
		21700	36873	400	2.03	1037	10.24	1063	11.10	1091	11.96	1117	12.84	1141	13.74
		24400	41460	450	2.29	1134	13.29	1158	14.25	1181	15.21	1206	16.18	1230	17.16
		27100	46048	500	2.54	1233	17.00	1256	18.05	1277	19.09	1299	20.15	1320	21.22
		29800	50636	550	2.79	1335	21.42	1354	22.56	1375	23.70	1396	24.86	1415	26.01
32500	55224	600	3.05	1438	26.62	1456	27.86	1475	29.09	1494	30.34	1512	31.59		
AF 320	800 XM	18900	32115	300	1.52	722	6.18	754	6.97	784	7.78	815	8.61	844	9.46
		22050	37467	350	1.78	791	8.18	820	9.07	848	9.99	874	10.92	901	11.86
		25200	42820	400	2.03	865	10.68	891	11.67	916	12.69	941	13.72	965	



FAN DATA

BACKWARD INCLINED AIR FOIL – BF/ AF (Sheet 2 of 4)

Model	Fan Model	Air Volume		Coil Face Vel.		Total Static Pressure									
						2.5"wg [0.63kPa]		2.75"wg [0.69kPa]		3"wg [0.75kPa]		3.25"wg [0.81kPa]		3.5"wg [0.88kPa]	
		cfm	m³/hr	fpm	m/sec	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
FS 22	BDB 250	1575	2676	315	1.60	2915	1.00	3018	1.11	3117	1.21	3213	1.31	3307	1.42
		1800	3059	360	1.83	3036	1.18	3136	1.28	3231	1.39	3326	1.50	3417	1.61
		2025	3441	405	2.06	3172	1.37	3266	1.49	3357	1.61	3447	1.72	3534	1.84
		2250	3823	450	2.29	3322	1.61	3409	1.72	3495	1.84	3580	1.98	3663	2.09
		2475	4206	495	2.51	3482	1.86	3565	1.99	3646	2.12	3726	2.26	3804	2.39
		2700	4588	540	2.74	3652	2.14	3730	2.28	3806	2.42	3882	2.56	3957	2.71
FS 32	BDB 280	1920	3262	290	1.47	2565	1.21	2657	1.33	2746	1.44	2833	1.56	2917	1.70
		2240	3806	340	1.73	2684	1.43	2773	1.56	2858	1.70	2943	1.83	3024	1.96
		2560	4350	390	1.98	2818	1.71	2902	1.84	2983	1.99	3062	2.14	3140	2.28
		2880	4894	435	2.21	2968	2.02	3046	2.17	3121	2.33	3197	2.48	3270	2.64
		3200	5437	485	2.46	3130	2.37	3203	2.55	3275	2.71	3344	2.89	3413	3.05
		3520	5981	535	2.72	3302	2.79	3370	2.96	3437	3.15	3503	3.33	3568	3.52
3840	6525	580	2.95	3478	3.26	3544	3.45	3609	3.64	3671	3.83	3733	4.04		
AF 40	ADA 315 TM	2400	4078	300	1.52	2242	1.44	2323	1.57	2405	1.73	2483	1.87	2559	2.00
		2800	4758	350	1.78	2345	1.73	2422	1.87	2498	2.04	2572	2.20	2643	2.34
		3200	5437	400	2.03	2463	2.05	2536	2.22	2606	2.39	2676	2.56	2744	2.74
		3600	6117	450	2.29	2593	2.43	2662	2.63	2727	2.81	2794	2.99	2858	3.18
		4000	6797	500	2.54	2733	2.89	2796	3.08	2859	3.27	2922	3.48	2983	3.67
		4400	7476	550	2.79	2880	3.39	2940	3.60	3000	3.82	3058	4.03	3116	4.25
4800	8156	600	3.05	3035	3.96	3092	4.20	3147	4.42	3203	4.65	3258	4.90		
AF 48	355 TM	3015	5123	300	1.52	1992	1.75	2066	1.94	2138	2.11	2207	2.29	2274	2.46
		3517	5976	350	1.78	2083	2.11	2152	2.29	2219	2.48	2285	2.67	2349	2.87
		4020	6831	400	2.03	2187	2.51	2252	2.72	2314	2.90	2378	3.12	2438	3.33
		4522	7684	450	2.29	2302	2.96	2362	3.18	2421	3.41	2481	3.64	2537	3.87
		5025	8538	500	2.54	2425	3.51	2482	3.74	2539	3.98	2594	4.24	2647	4.48
		5527	9391	550	2.79	2554	4.11	2609	4.38	2662	4.64	2714	4.90	2765	5.16
6030	10246	600	3.05	2692	4.82	2743	5.10	2792	5.38	2842	5.67	2890	5.94		
AF 64	400 TM	3852	6545	300	1.52	1662	2.13	1722	2.33	1781	2.54	1839	2.76	1894	2.97
		4494	7636	350	1.78	1741	2.54	1797	2.77	1852	3.00	1907	3.24	1959	3.47
		5136	8727	400	2.03	1830	3.04	1884	3.30	1935	3.54	1986	3.79	2036	4.05
		5778	9818	450	2.29	1929	3.63	1979	3.89	2027	4.17	2075	4.43	2123	4.71
		6420	10909	500	2.54	2034	4.29	2082	4.57	2127	4.88	2172	5.15	2218	5.46
		7062	12000	550	2.79	2145	5.06	2190	5.37	2234	5.68	2276	5.99	2318	6.31
7704	13091	600	3.05	2263	5.93	2304	6.26	2345	6.59	2385	6.93	2426	7.27		
AF 80	450 TM	4500	7646	300	1.52	1456	2.47	1513	2.71	1567	2.97	1619	3.22	1671	3.50
		5250	8921	350	1.78	1517	2.93	1570	3.20	1621	3.48	1670	3.75	1718	4.04
		6000	10195	400	2.03	1587	3.47	1637	3.75	1685	4.06	1731	4.36	1777	4.66
		6750	11470	450	2.29	1664	4.08	1711	4.40	1757	4.72	1800	5.05	1844	5.37
		7500	12744	500	2.54	1749	4.79	1792	5.13	1835	5.48	1877	5.82	1919	6.18
		8250	14018	550	2.79	1839	5.60	1880	5.97	1920	6.34	1960	6.72	1999	7.09
9000	15293	600	3.05	1931	6.52	1970	6.92	2010	7.31	2047	7.72	2084	8.11		
AF 100	500 TM	6180	10501	300	1.52	1302	3.31	1349	3.63	1398	3.95	1443	4.27	1487	4.60
		7210	12251	350	1.78	1362	3.98	1406	4.34	1450	4.69	1494	5.05	1535	5.40
		8240	14001	400	2.03	1430	4.77	1472	5.14	1512	5.52	1553	5.93	1592	6.32
		9270	15752	450	2.29	1506	5.68	1545	6.10	1583	6.51	1621	6.93	1658	7.36
		10300	17502	500	2.54	1588	6.75	1625	7.19	1661	7.64	1696	8.10	1730	8.55
		11330	19252	550	2.79	1676	7.97	1711	8.44	1744	8.93	1777	9.41	1811	9.91
12360	21002	600	3.05	1767	9.36	1799	9.87	1831	10.40	1863	10.91	1894	11.44		
AF 120	500 TM	7170	12183	300	1.52	1359	3.96	1403	4.30	1447	4.64	1491	5.01	1533	5.37
		8365	14214	350	1.78	1439	4.88	1480	5.26	1520	5.64	1560	6.04	1601	6.43
		9560	16244	400	2.03	1529	5.97	1567	6.39	1604	6.81	1642	7.24	1679	7.69
		10755	18275	450	2.29	1626	7.26	1661	7.72	1697	8.18	1731	8.65	1765	9.14
		11950	20305	500	2.54	1730	8.78	1763	9.29	1796	9.78	1828	10.30	1859	10.79
		13145	22336	550	2.79	1841	10.56	1870	11.10	1900	11.63	1930	12.19	1961	12.74
14340	24367	600	3.05	1952	12.60	1982	13.19	2011	13.76	2038	14.34	2065	14.95		
AF 150	560 TM	8580	14579	300	1.52	1199	4.67	1240	5.10	1280	5.54	1319	5.97	1359	6.40
		10010	17009	350	1.78	1265	5.72	1303	6.18	1341	6.66	1377	7.14	1412	7.61
		11440	19439	400	2.03	1340	6.96	1375	7.47	1410	7.99	1444	8.51	1477	9.03
		12870	21869	450	2.29	1421	8.43	1454	8.98	1486	9.54	1518	10.11	1549	10.68
		14300	24299	500	2.54	1509	10.14	1540	10.74	1569	11.35	1599	11.96	1628	12.58
		15730	26728	550	2.79	1601	12.12	1628	12.77	1657	13.42	1685	14.09	1712	14.76
17160	29158	600	3.05	1696	14.41	1723	15.09	1749	15.80	1775	16.50	1800	17.23		
AF 180/210	630 TM	10800	18351	300	1.52	1067	5.80	1104	6.32	1140	6.86	1175	7.39	1209	7.94
		12600	21410	350	1.78	1126	7.10	1160	7.67	1194	8.27	1226	8.85	1258	9.44
		14400	24468	400	2.03	1193	8.64	1224	9.26	1255	9.90	1285	10.56	1314	11.20
		16200	27527	450	2.29	1265	10.44	1294	11.12	1323	11.83	1351	12.53	1378	13.24
		18000	30586	500	2.54	1342	12.56	1370	13.31	1397	14.07	1422	14.82	1449	15.59
		19800	33644	550	2.79	1424	15.01	1449	15.80	1474	16.63	1500	17.46	1523	18.29
21600	36703	600	3.05	1509	17.84	1533	18.71	1556	19.58	1579	20.46	1602	21.34		
AF 240	710 TM	13950	23704	300	1.52	959	7.55	991	8.19	1023	8.89	1054	9.59	1084	10.27
		16275	27654	350	1.78	1015	9.26	1043	10.00	1073	10.75	1102	11.52	1130	12.29
		18600	31605	400	2.03	1076	11.32	1103	12.12	1131	12.94	1158	13.78	1183	14.62
		20925	35556	450	2.29	1143	13.74	1169	14.62	1195	15.51	1220	16.42	1243	17.33
		23250	39506	500	2.54	1215	16.56	1239	17.53	1263	18.51	1285	19.47	1308	20.47
		25575	43457	550	2.79	1292	19.88	1313	20.90	1335	21.94	1357	23.01	1378	24.07
27900	47408	600	3.05	1369	23.68	1391	24.78	1410	25.91	1431	27.03	1450	28.16		
AF 270	710 TM	16250	27612	300	1.52	1014	9.24	1043	9.97	1072	10.73	1101	11.49	1129	12.25
		19000	32285	350	1.78	1088	11.70	1114	12.53	1141	13.36	1168	14.20	1194	15.05
		21700	36873	400	2.03	1167	14.63	1192	15.54	1216	16.45	1241	17.38	1265	18.34
		24400	41460	450	2.29	1252	18.14	1275	19.13	1298	20.15	1320	21.17	1342	22.19
		27100	46048	500	2.54	1342	22.30	1364	23.39	1384	24.49	1404	25.58	1426	26.70
		29800	50636	550	2.79	1435	27.19	1454	28.37	1474	29.54	1494	30.74	1512	31.95
32500	55224	600	3.05	1531	32.85	1549	34.12	1567	35.39	1584	36.68	1603	37.98		
AF 320	800 XM	18900	32115	300	1.52	871	10.31	900	11.19	927	12.07	954	12.96	980	13.91
		22050	37467	350	1.78	927	12.79	953	13.79	977	14.78	1002	15.75	1027	16.78
		25200	42820	400	2.03										



FAN DATA

BACKWARD INCLINED AIR FOIL – BF/ AF (Sheet 3 of 4)

Model	Fan Model	Air Volume		Coil Face Vel.		Total Static Pressure									
						3.75"wg [0.94kPa]		4"wg [1.00kPa]		4.25"wg [1.06kPa]		4.5"wg [1.13kPa]		4.75"wg [1.19kPa]	
		cfm	m³/hr	fpm	m/sec	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
FS 22	BDB 250	1575	2676	315	1.60	3399	1.52	3489	1.62	3578	1.72	3664	1.84	3751	1.95
		1800	3059	360	1.83	3504	1.72	3591	1.84	3674	1.95	3756	2.06	3837	2.20
		2025	3441	405	2.06	3620	1.96	3704	2.08	3786	2.20	3866	2.33	3944	2.46
		2250	3823	450	2.29	3745	2.23	3825	2.36	3905	2.48	3983	2.61	4058	2.76
		2475	4206	495	2.51	3882	2.52	3958	2.65	4034	2.80	4108	2.93	4181	3.08
		2700	4588	540	2.74	4030	2.86	4103	2.99	4175	3.14	4246	3.29	4316	3.45
FS 32	BDB 280	1920	3262	290	1.47	3000	1.81	3081	1.95	3161	1.62	3241	2.21	3320	2.34
		2240	3806	340	1.73	3102	2.11	3179	2.24	3253	2.39	3327	2.54	3399	2.68
		2560	4350	390	1.98	3217	2.43	3291	2.58	3364	2.73	3435	2.89	3505	3.05
		2880	4894	435	2.21	3342	2.80	3413	2.96	3483	3.12	3552	3.29	3620	3.46
		3200	5437	485	2.46	3481	3.23	3549	3.39	3614	3.57	3680	3.74	3744	3.92
		3520	5981	535	2.72	3632	3.70	3695	3.89	3758	4.07	3820	4.26	3881	4.45
3840	6525	580	2.95	3793	4.23	3853	4.44	3913	4.63	3970	4.83	4029	5.04		
AF 40	ADA 315 TM	2400	4078	300	1.52	2633	2.17	2706	2.31	2777	2.48	2846	2.63	2915	2.78
		2800	4758	350	1.78	2713	2.51	2783	2.68	2850	2.85	2917	3.03	2981	3.18
		3200	5437	400	2.03	2811	2.90	2876	3.09	2940	3.27	3004	3.47	3065	3.64
		3600	6117	450	2.29	2920	3.37	2983	3.55	3044	3.76	3104	3.95	3162	4.15
		4000	6797	500	2.54	3041	3.87	3101	4.08	3159	4.30	3216	4.51	3271	4.72
		4400	7476	550	2.79	3173	4.47	3229	4.69	3283	4.91	3338	5.13	3392	5.37
4800	8156	600	3.05	3312	5.12	3364	5.35	3417	5.59	3470	5.84	3521	6.07		
AF 48	355 TM	3015	5123	300	1.52	2341	2.64	2406	2.83	2470	3.03	2531	3.21	2592	3.41
		3517	5976	350	1.78	2411	3.07	2473	3.27	2534	3.48	2593	3.69	2650	3.89
		4020	6831	400	2.03	2496	3.55	2555	3.77	2613	3.99	2669	4.21	2724	4.43
		4522	7684	450	2.29	2593	4.10	2650	4.33	2704	4.59	2757	4.82	2809	5.06
		5025	8538	500	2.54	2701	4.73	2754	4.98	2805	5.24	2856	5.50	2906	5.75
		5527	9391	550	2.79	2816	5.43	2866	5.71	2915	5.97	2964	6.25	3011	6.53
6030	10246	600	3.05	2938	6.22	2985	6.51	3033	6.81	3079	7.11	3125	7.40		
AF 64	400 TM	3852	6545	300	1.52	1949	3.18	2002	3.41	2055	3.64	2105	3.86	2156	4.09
		4494	7636	350	1.78	2011	3.71	2061	3.95	2112	4.19	2160	4.44	2207	4.69
		5136	8727	400	2.03	2085	4.30	2132	4.56	2179	4.83	2226	5.10	2271	5.37
		5778	9818	450	2.29	2168	4.98	2213	5.27	2259	5.55	2303	5.84	2346	6.14
		6420	10909	500	2.54	2260	5.76	2304	6.06	2346	6.36	2389	6.68	2429	6.99
		7062	12000	550	2.79	2360	6.64	2401	6.96	2441	7.28	2480	7.61	2520	7.94
7704	13091	600	3.05	2465	7.61	2504	7.97	2542	8.31	2580	8.66	2618	9.02		
AF 80	450 TM	4500	7646	300	1.52	1720	3.75	1769	4.02	1816	4.29	1863	4.57	1909	4.85
		5250	8921	350	1.78	1766	4.34	1813	4.62	1857	4.90	1902	5.22	1947	5.52
		6000	10195	400	2.03	1822	4.97	1866	5.28	1910	5.60	1952	5.93	1994	6.26
		6750	11470	450	2.29	1887	5.71	1929	6.05	1969	6.39	2011	6.73	2051	7.09
		7500	12744	500	2.54	1959	6.55	1999	6.90	2038	7.26	2078	7.64	2116	8.01
		8250	14018	550	2.79	2037	7.47	2074	7.85	2113	8.26	2150	8.65	2186	9.05
9000	15293	600	3.05	2121	8.52	2157	8.94	2193	9.35	2228	9.77	2262	10.19		
AF 100	500 TM	6180	10501	300	1.52	1532	4.96	1575	5.30	1616	5.65	1656	5.99	1696	6.35
		7210	12251	350	1.78	1576	5.77	1617	6.15	1656	6.53	1695	6.92	1733	7.28
		8240	14001	400	2.03	1630	6.70	1670	7.11	1707	7.55	1744	7.95	1780	8.35
		9270	15752	450	2.29	1694	7.78	1731	8.24	1766	8.68	1801	9.12	1835	9.56
		10300	17502	500	2.54	1765	9.02	1800	9.49	1833	9.95	1865	10.43	1899	10.92
		11330	19252	550	2.79	1843	10.41	1875	10.91	1906	11.41	1937	11.94	1969	12.44
12360	21002	600	3.05	1924	11.96	1955	12.50	1985	13.05	2015	13.59	2044	14.13		
AF 120	500 TM	7170	12183	300	1.52	1574	5.73	1615	6.13	1655	6.49	1693	6.88	1731	7.24
		8365	14214	350	1.78	1639	6.84	1676	7.24	1714	7.67	1751	8.08	1786	8.51
		9560	16244	400	2.03	1714	8.11	1749	8.56	1785	9.02	1819	9.48	1853	9.93
		10755	18275	450	2.29	1798	9.60	1832	10.10	1865	10.58	1897	11.08	1929	11.56
		11950	20305	500	2.54	1891	11.32	1923	11.85	1953	12.37	1983	12.90	2013	13.44
		13145	22336	550	2.79	1990	13.29	2019	13.85	2047	14.42	2076	14.99	2104	15.57
14340	24367	600	3.05	2093	15.54	2121	16.13	2149	16.75	2175	17.37	2201	17.96		
AF 150	560 TM	8580	14579	300	1.52	1397	6.86	1433	7.31	1469	7.77	1504	8.24	1540	8.72
		10010	17009	350	1.78	1448	8.11	1483	8.62	1517	9.12	1549	9.61	1583	10.14
		11440	19439	400	2.03	1510	9.57	1543	10.12	1575	10.66	1606	11.20	1637	11.78
		12870	21869	450	2.29	1580	11.27	1611	11.86	1641	12.44	1670	13.03	1700	13.65
		14300	24299	500	2.54	1657	13.21	1685	13.83	1713	14.46	1742	15.12	1770	15.76
		15730	26728	550	2.79	1739	15.42	1765	16.09	1792	16.79	1819	17.49	1845	18.17
17160	29158	600	3.05	1826	17.96	1851	18.68	1876	19.40	1900	20.13	1925	20.86		
AF 180/210	630 TM	10800	18351	300	1.52	1243	8.51	1276	9.07	1308	9.64	1339	10.21	1371	10.82
		12600	21410	350	1.78	1290	10.07	1320	10.70	1350	11.31	1379	11.94	1409	12.57
		14400	24468	400	2.03	1344	11.87	1373	12.56	1402	13.23	1430	13.91	1456	14.61
		16200	27527	450	2.29	1407	13.96	1434	14.70	1461	15.42	1486	16.15	1512	16.92
		18000	30586	500	2.54	1475	16.37	1500	17.14	1524	17.92	1550	18.73	1575	19.55
		19800	33644	550	2.79	1547	19.10	1571	19.94	1595	20.81	1619	21.67	1642	22.51
21600	36703	600	3.05	1625	22.23	1647	23.14	1670	24.03	1691	24.94	1713	25.86		
AF 240	710 TM	13950	23704	300	1.52	1113	10.99	1143	11.73	1171	12.46	1199	13.17	1227	13.94
		16275	27654	350	1.78	1157	13.04	1185	13.86	1211	14.66	1238	15.47	1263	16.26
		18600	31605	400	2.03	1209	15.45	1235	16.33	1260	17.20	1284	18.08	1308	18.95
		20925	35556	450	2.29	1267	18.25	1292	19.19	1315	20.14	1338	21.08	1361	22.02
		23250	39506	500	2.54	1331	21.47	1353	22.47	1375	23.48	1397	24.49	1418	25.54
		25575	43457	550	2.79	1399	25.14	1419	26.20	1440	27.30	1462	28.41	1481	29.52
27900	47408	600	3.05	1471	29.33	1490	30.49	1510	31.65	1529	32.81	1548	33.97		
AF 270	710 TM	16250	27612	300	1.52	1157	13.03	1185	13.83	1211	14.63	1237	15.44	1263	16.24
		19000	32285	350	1.78	1218	15.91	1243	16.78	1269	17.68	1294	18.58	1317	19.46
		21700	36873	400	2.03	1288	19.27	1311	20.22	1335	21.21	1358	22.19	1379	23.15
		24400	41460	450	2.29	1364	23.21	1385	24.26	1407	25.32	1429	26.37	1449	27.43
		27100	46048	500	2.54	1446	27.83	1466	28.96	1485	30.08	1505	31.22	1524	32.38
		29800	50636	550	2.79	1531	33.16	1549	34.35	1569	35.59	1587	36.84	1606	38.06
32500	55224	600	3.05	1620	39.27	1638	40.58	1655	41.89	1673	43.21	1689	44.53		
AF 320	800 XM	18900	32115	300	1.52	1005	14.83	1030	15.74	1055	16.72	1079	17.70	1103	18.68
		22050	37467	350	1.78	1051	17.80	1073	18.84	1096	19.84	1120	20.94	1141	22



FAN DATA

BACKWARD INCLINED AIR FOIL – BF/ AF (Sheet 4 of 4)

Model	Fan Model	Air Volume		Coil Face Vel.		Total Static Pressure									
						5"wg [1.25kPa]		5.25"wg [1.31kPa]		5.5"wg [1.38kPa]		5.75"wg [1.44kPa]		6"wg [1.50kPa]	
		cfm	m³/hr	fpm	m/sec	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
FS 22	BDB 250	1575	2676	315	1.60	3836	2.06	3922	2.17	4006	2.28	4089	2.40	4171	2.51
		1800	3059	360	1.83	3916	2.31	3995	2.43	4073	2.55	4149	2.68	4225	2.80
		2025	3441	405	2.06	4020	2.58	4096	2.71	4169	2.84	4242	2.98	4313	3.11
		2250	3823	450	2.29	4134	2.89	4207	3.02	4279	3.17	4350	3.30	4420	3.45
		2475	4206	495	2.51	4255	3.23	4326	3.36	4396	3.51	4466	3.66	4533	3.82
		2700	4588	540	2.74	4385	3.60	4453	3.74	4521	3.91	4588	4.05	4654	4.22
FS 32	BDB 280	1920	3262	290	1.47	3398	2.48	3475	2.61	3551	2.76	3626	2.89	3701	3.02
		2240	3806	340	1.73	3471	2.83	3541	2.98	3610	3.12	3679	3.29	3747	3.43
		2560	4350	390	1.98	3573	3.20	3640	3.36	3705	3.52	3770	3.70	3834	3.86
		2880	4894	435	2.21	3686	3.63	3752	3.80	3815	3.98	3878	4.14	3941	4.32
		3200	5437	485	2.46	3808	4.11	3872	4.29	3933	4.47	3995	4.66	4055	4.85
		3520	5981	535	2.72	3942	4.64	4002	4.83	4060	5.03	4119	5.23	4178	5.42
3840	6525	580	2.95	4087	5.25	4144	5.44	4200	5.65	4256	5.87	4311	6.07		
AF 40	ADA 315 TM	2400	4078	300	1.52	2983	2.95	3048	3.12	3112	3.29	3176	3.45	3238	3.61
		2800	4758	350	1.78	3046	3.37	3109	3.54	3171	3.73	3231	3.91	3291	4.08
		3200	5437	400	2.03	3126	3.83	3187	4.03	3246	4.21	3304	4.41	3361	4.60
		3600	6117	450	2.29	3220	4.35	3279	4.55	3336	4.76	3391	4.97	3445	5.17
		4000	6797	500	2.54	3328	4.94	3383	5.16	3437	5.37	3490	5.59	3542	5.81
		4400	7476	550	2.79	3445	5.59	3498	5.82	3549	6.04	3599	6.28	3651	6.51
4800	8156	600	3.05	3571	6.33	3620	6.56	3670	6.81	3720	7.06	3768	7.32		
AF 48	355 TM	3015	5123	300	1.52	2653	3.61	2711	3.82	2768	4.00	2825	4.21	2880	4.42
		3517	5976	350	1.78	2707	4.11	2764	4.33	2819	4.54	2874	4.76	2926	4.98
		4020	6831	400	2.03	2778	4.68	2833	4.91	2885	5.15	2937	5.38	2988	5.62
		4522	7684	450	2.29	2862	5.30	2913	5.56	2964	5.81	3013	6.06	3061	6.31
		5025	8538	500	2.54	2956	6.02	3005	6.28	3053	6.55	3100	6.81	3147	7.10
		5527	9391	550	2.79	3059	6.81	3106	7.10	3151	7.37	3197	7.65	3242	7.94
6030	10246	600	3.05	3170	7.69	3213	7.99	3259	8.28	3302	8.59	3346	8.90		
AF 64	400 TM	3852	6545	300	1.52	2205	4.34	2254	4.57	2302	4.81	2348	5.06	2394	5.30
		4494	7636	350	1.78	2254	4.94	2301	5.22	2346	5.47	2392	5.73	2435	5.99
		5136	8727	400	2.03	2315	5.64	2361	5.93	2404	6.21	2447	6.49	2490	6.77
		5778	9818	450	2.29	2388	6.42	2431	6.72	2472	7.03	2513	7.32	2553	7.63
		6420	10909	500	2.54	2470	7.30	2510	7.63	2550	7.94	2589	8.27	2628	8.58
		7062	12000	550	2.79	2560	8.28	2598	8.62	2635	8.97	2672	9.31	2709	9.65
7704	13091	600	3.05	2654	9.37	2691	9.73	2726	10.08	2763	10.45	2799	10.82		
AF 80	450 TM	4500	7646	300	1.52	1953	5.14	1997	5.43	2040	5.72	2083	6.04	2125	6.35
		5250	8921	350	1.78	1989	5.82	2031	6.14	2071	6.44	2114	6.77	2154	7.10
		6000	10195	400	2.03	2035	6.59	2075	6.92	2115	7.26	2154	7.60	2193	7.95
		6750	11470	450	2.29	2090	7.44	2128	7.80	2166	8.15	2204	8.52	2241	8.89
		7500	12744	500	2.54	2153	8.40	2189	8.77	2226	9.15	2262	9.54	2298	9.94
		8250	14018	550	2.79	2222	9.44	2257	9.85	2293	10.25	2327	10.66	2361	11.08
9000	15293	600	3.05	2297	10.61	2331	11.06	2365	11.48	2398	11.90	2430	12.34		
AF 100	500 TM	6180	10501	300	1.52	1737	6.73	1776	7.10	1814	7.48	1851	7.85	1888	8.23
		7210	12251	350	1.78	1771	7.70	1809	8.10	1845	8.51	1881	8.93	1916	9.32
		8240	14001	400	2.03	1816	8.79	1851	9.23	1886	9.66	1920	10.10	1954	10.54
		9270	15752	450	2.29	1869	10.03	1903	10.49	1936	10.95	1969	11.42	2000	11.87
		10300	17502	500	2.54	1931	11.42	1963	11.90	1994	12.40	2025	12.88	2056	13.40
		11330	19252	550	2.79	1999	12.95	2029	13.48	2059	13.99	2089	14.54	2119	15.08
12360	21002	600	3.05	2072	14.67	2101	15.24	2130	15.80	2159	16.38	2187	16.95		
AF 120	500 TM	7170	12183	300	1.52	1770	7.65	1807	8.07	1844	8.47	1880	8.86	1914	9.28
		8365	14214	350	1.78	1821	8.93	1857	9.36	1892	9.82	1926	10.25	1959	10.70
		9560	16244	400	2.03	1886	10.39	1919	10.87	1952	11.35	1985	11.83	2016	12.30
		10755	18275	450	2.29	1960	12.06	1992	12.58	2023	13.09	2053	13.61	2083	14.12
		11950	20305	500	2.54	2044	13.98	2072	14.53	2101	15.07	2130	15.61	2158	16.17
		13145	22336	550	2.79	2133	16.13	2160	16.72	2187	17.30	2215	17.88	2242	18.48
14340	24367	600	3.05	2227	18.56	2254	19.19	2280	19.83	2306	20.46	2332	21.08		
AF 150	560 TM	8580	14579	300	1.52	1574	9.20	1607	9.69	1640	10.17	1672	10.63	1705	11.16
		10010	17009	350	1.78	1615	10.68	1647	11.20	1679	11.73	1709	12.25	1740	12.79
		11440	19439	400	2.03	1668	12.36	1697	12.92	1727	13.49	1756	14.07	1785	14.64
		12870	21869	450	2.29	1728	14.26	1757	14.87	1785	15.49	1812	16.09	1840	16.74
		14300	24299	500	2.54	1796	16.42	1823	17.08	1849	17.72	1876	18.41	1902	19.09
		15730	26728	550	2.79	1870	18.87	1895	19.56	1921	20.29	1947	21.00	1971	21.72
17160	29158	600	3.05	1950	21.61	1975	22.38	1998	23.13	2022	23.88	2045	24.62		
AF 180/210	630 TM	10800	18351	300	1.52	1401	11.42	1431	12.02	1461	12.61	1489	13.21	1518	13.85
		12600	21410	350	1.78	1438	13.24	1467	13.90	1495	14.56	1521	15.20	1549	15.87
		14400	24468	400	2.03	1484	15.32	1511	16.03	1538	16.74	1564	17.45	1589	18.16
		16200	27527	450	2.29	1539	17.68	1564	18.43	1588	19.21	1613	19.95	1638	20.75
		18000	30586	500	2.54	1599	20.35	1622	21.17	1646	21.97	1670	22.81	1693	23.66
		19800	33644	550	2.79	1664	23.36	1687	24.24	1710	25.14	1732	26.03	1754	26.91
21600	36703	600	3.05	1736	26.79	1757	27.73	1778	28.66	1799	29.61	1820	30.53		
AF 240	710 TM	13950	23704	300	1.52	1254	14.71	1280	15.49	1306	16.26	1332	17.03	1357	17.79
		16275	27654	350	1.78	1289	17.10	1314	17.48	1339	18.80	1363	19.66	1386	20.50
		18600	31605	400	2.03	1333	19.85	1357	20.78	1380	21.71	1403	22.61	1426	23.70
		20925	35556	450	2.29	1383	23.01	1397	23.99	1428	24.97	1449	25.97	1471	26.93
		23250	39506	500	2.54	1440	26.58	1462	27.62	1482	28.67	1502	29.71	1522	30.79
		25575	43457	550	2.79	1502	30.62	1521	31.74	1541	32.85	1560	34.00	1580	35.16
27900	47408	600	3.05	1567	35.17	1586	36.38	1605	37.59	1623	38.80	1642	39.99		
AF 270	710 TM	16250	27612	300	1.52	1289	17.08	1313	17.92	1339	18.77	1363	19.63	1386	20.47
		19000	32285	350	1.78	1340	20.35	1364	21.27	1387	22.23	1411	23.17	1433	24.10
		21700	36873	400	2.03	1401	24.14	1423	25.14	1445	26.16	1467	27.09	1488	28.21
		24400	41460	450	2.29	1470	28.49	1490	29.61	1511	30.70	1531	31.80	1551	32.89
		27100	46048	500	2.54	1544	33.55	1564	34.73	1582	35.89	1602	37.07	1619	38.23
		29800	50636	550	2.79	1623	39.32	1641	40.56	1658	41.81	1677	43.10	1694	44.37
32500	55224	600	3.05	1707	45.88	1724	47.23	1741	48.58	1757	49.93	1774	51.29		
AF 320	800 XM	18900	32115	300	1.52	1126	19.64	1148	20.60	1171	21.65	1194	22.69	1216	23.74
		22050	37467	350	1.78	1164	23.10	1186	24.16	1206	25.2				



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info@dunham-bush.com
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