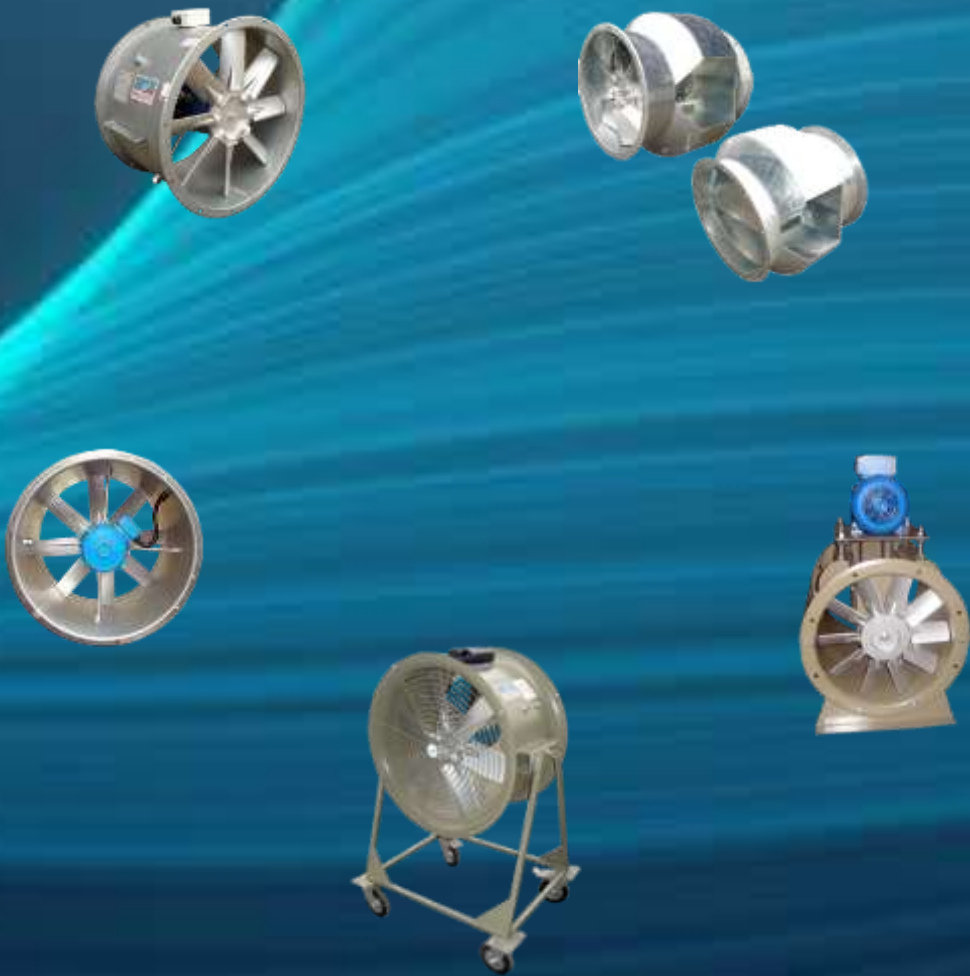


Axial Flow Fan

Better Air Movement



www.echoswift.com

Terengganu (HQ)

Lot PT 14293 (Plot A), Kawasan Perindustrian Batu 7,
23000 Dungun, Terengganu Darul Iman.
Phone no.: 09-8490046 Fax. No.: 09-8490032
e-mail: echos@echoswift.com

Selangor (Branch)

BE-1-7A Jalan Pinggiran 1/4, Taman Pinggiran Putra,
43300 Seri Kembangan, Selangor Darul Ehsan.
Phone: 012-9887600 email : echoswift@yahoo.com

Glass Reinforced Nylon Impeller



Massive Fan GRN blades the latest design for excellent performance which compromised with safe operating temperature range from -40°C to 100°C , higher strength and stiffness to accept high speed.

GRN blades are formulated to resist creep and fatigue under mechanical stress and load.



Glass Reinforced Polypropylene Impeller



Glass Reinforced Polypropylene fan (GRP) blades resist chemical attack & staining and are unaffected by aqueous solutions of inorganics salts or mineral acids alkali and gases, such as Chlorinated hydro-carbon, ketones, aromatic and Alcohols.

A limited heat resistance from temperature -40°C to 70°C , but heat-stabilized grades are available for applications requiring prolonged use at elevated temperature.



Aluminium



Massive fan aluminium fan blades have greater strength, suitable for higher fan tip speed up to 100m/sec , and temperature up to 200°C continuous operations. Proven for use in emergency smoke spill operation and other non corrosive fume extraction.



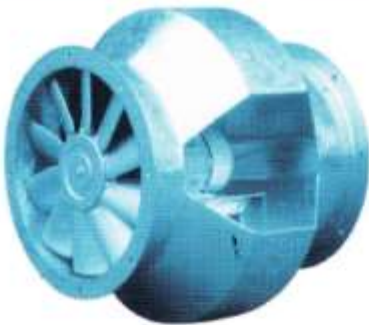
Direct-Drive MSA Series



These fans are normally with short or long casing. The motor leads (protected by a flexible conduit) are taken to a weather-proof terminal box which is welded to the fan casing.



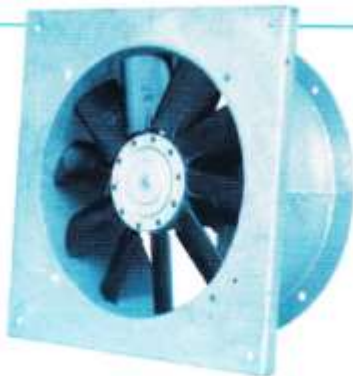
Bifurcated MSB Series



Bifurcated axial fans have been specially designed to handle corrosive fumes, hot air and gases which would be detrimental to the life of the motor. The fans have a split air way with a direct drive motor isolated from the fan air stream.



Wall Axial MSAP Series



MSAP Series are axial flow fans with square plate designed for free inlet with or without outlet ductwork.



M.S Axial Fans

Roof Axial MSRF Series



Roof fans can be mounted on sloping roof, specially designed for warehouse ventilation to lower the room temperature. Fan cowl shall be fiberglass.



Belt-Drive MSBA Series



Belt driven axial fans are produced for duties which require the motor to be outside the system air stream. These have been specially designed for paint booth exhaust and ventilation applications.



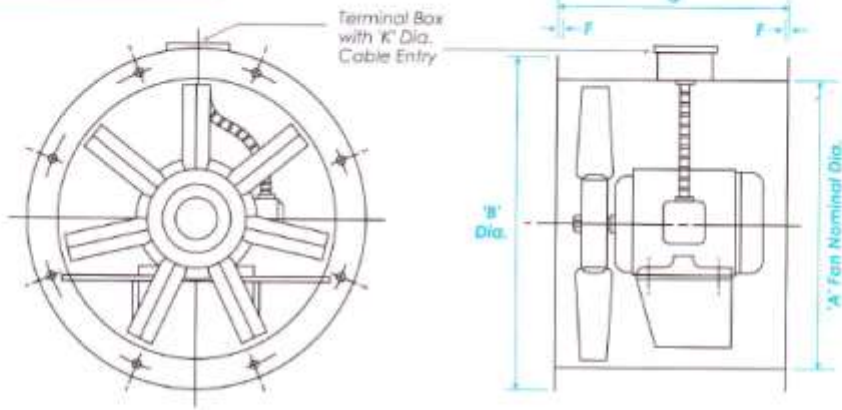
Portable Axial Fan AST Series



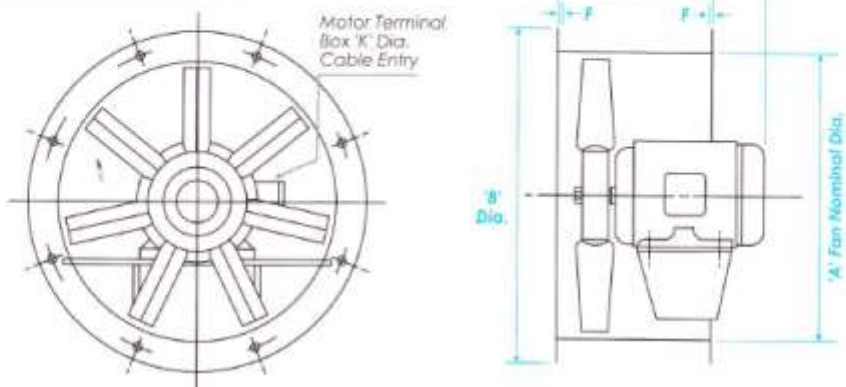
This range is available in a wide choice of speeds. Portable axial fans increase working efficiency by delivering large volumes of fresh air across people in hot working areas. Cooling and drying process of products can be more quickly by using AST Series.



LONG CASING

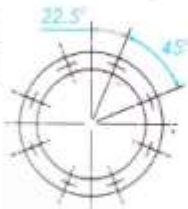


SHORT CASING



FLANGE DRILLINGS

Fan Dia.
375,
400



Fan Dia.
715,
800,
900,
1000

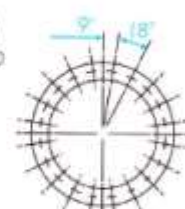


'G' No. of Holes 'H' Dia.
Equi-Spaced on 'J' P.C.D.

Fan Dia.
500,
560,
630.



Fan Dia.
1250



All dimensions in mm.

Axial Flow Fan Dimension

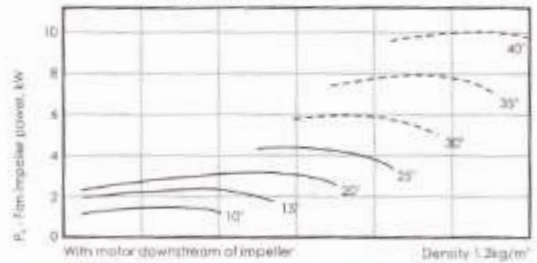
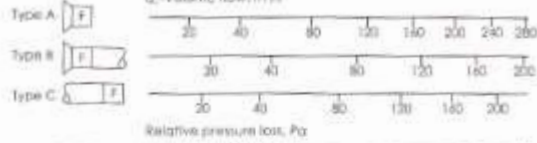
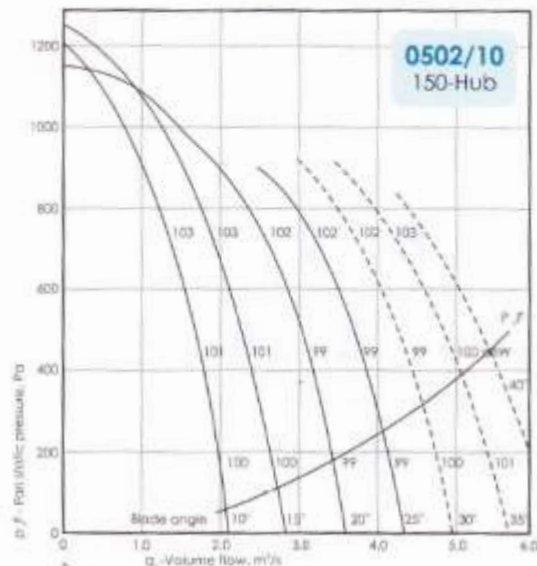
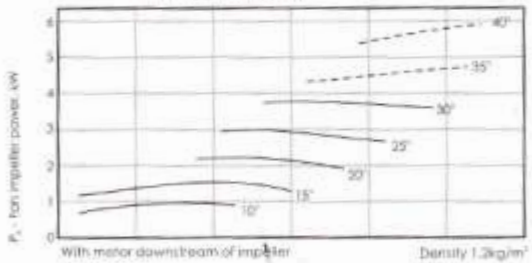
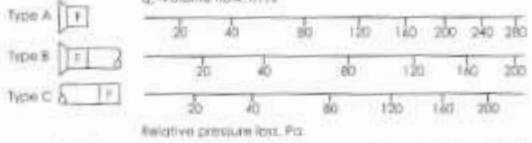
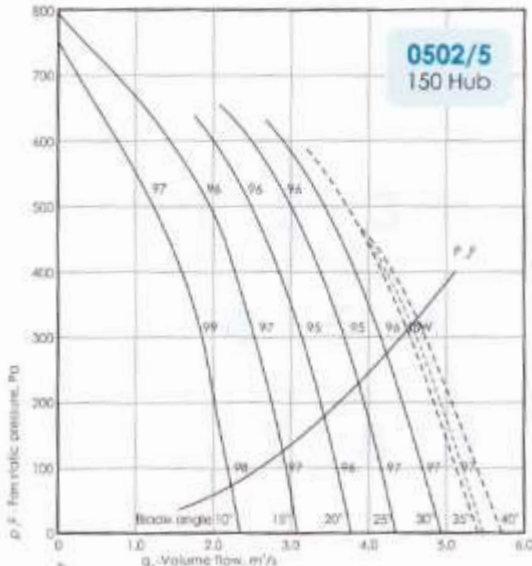
FAN CODE	A	B	C	D	E (Max)	F	G	H	J	K	L.C.	S.C.
MSA315-63 MSA315-71	315 315	375 375	300 300	180 180	290 300	2.0 2.0	8 8	10 10	360 360	20 20	20 23	12 15
MSA400-63 MSA400-71 MSA400-80 MSA400-90S MSA400-90L	400 400 400 400 400	475 475 475 475 475	300 300 400 400 400	220 220 220 220 220	290 300 335 360 380	2.0 2.0 2.0 2.0 2.0	8 8 8 8 8	12 12 12 12 12	444 444 444 444 444	20 20 20 20 20	22 25 30 35 41	16 19 22 24 27
MSA500-71 MSA500-80 MSA500-90S MSA500-90L MSA500-100L MSA500-112L	500 500 500 500 500 500	585 585 585 585 585 585	300 400 400 400 450 450	220 220 220 220 250 250	300 335 360 380 440 440	2.0 2.0 2.0 2.0 2.0 2.0	12 12 12 12 12 12	12 12 12 12 12 12	546 546 546 546 546 546	20 20 20 20 20 25	28 33 38 44 51 61	21 26 29 31 38 46
MSA560-71 MSA560-80 MSA560-90S MSA560-90L MSA560-100L MSA560-112M MSA560-132S MSA560-132M	560 560 560 560 560 560 560 560	645 645 645 645 645 645 645 645	300 400 400 400 450 450 570 570	220 220 220 220 250 250 300 300	300 335 360 380 440 440 500 555	2.0 2.0 2.0 2.0 2.0 3.0 3.0 3.0	12 12 12 12 12 12 12 12	12 12 12 12 12 12 12 12	606 606 606 606 606 606 606 606	20 20 20 20 20 25 25 25	30 36 41 47 54 63 90 103	24 28 31 34 48 52 67 72
MSA630-71 MSA630-80 MSA630-90S MSA630-90L MSA630-100L MSA630-112M MSA630-132S MSA630-132M MSA630-160M	630 630 630 630 630 630 630 630 630	715 715 715 715 715 715 715 715 715	300 400 400 400 450 450 570 570 710	250 250 250 250 250 250 300 300 400	300 335 360 380 440 440 500 555 650	2.0 2.0 2.0 2.0 2.0 3.0 3.0 3.0 4.0	12 12 12 12 12 12 12 12 12	12 12 12 12 12 12 12 12 12	676 676 676 676 676 676 676 676 676	20 20 20 20 20 25 25 25 32	39 40 55 60 65 80 100 110 148	29 34 37 40 48 55 74 90 120
MSA710-80 MSA710-90S MSA710-90L MSA710-100L MSA710-112M MSA710-132S MSA710-132M MSA710-160M MSA710-160L MSA710-180L MSA710-200L	710 710 710 710 710 710 710 710 710 710 710	795 795 795 795 795 795 795 795 795 795 795	400 400 400 450 450 570 570 710 710 790 840	250 250 250 250 250 300 300 400 400 500 550	335 360 380 440 440 500 555 650 775 840	2.0 2.0 2.0 3.0 3.0 3.0 3.0 4.0 4.0 4.0 5.0	16 16 16 16 16 16 16 16 16 16 16	12 12 12 12 12 12 12 12 12 12 12	756 756 756 756 756 756 756 756 756 756 756	20 20 20 20 25 25 25 32 32 38 52	49 52 55 62 65 96 110 165 187 235 300	38 41 44 51 59 77 83 125 148 196 256
MSA800-80 MSA800-90S MSA800-90L MSA800-100L MSA800-112M MSA800-132S MSA800-132M MSA800-160M	800 800 800 800 800 800 800 800	885 885 885 885 885 885 885 885	400 400 400 450 450 570 570 710	250 250 250 250 250 300 300 400	335 360 380 440 440 500 555 650	3.0 3.0 3.0 3.0 3.0 3.0 3.0 4.0	16 16 16 16 16 16 16 16	12 12 12 12 12 12 12 12	845 845 845 845 845 845 845 845	20 20 20 20 25 25 25 32	52 56 60 67 75 97 113 155	41 45 48 55 63 81 88 135
MSA900-90S MSA900-90L MSA900-100L MSA900-112M MSA900-132S MSA900-132M MSA900-160M MSA900-160L	900 900 900 900 900 900 900 900	1000 1000 1000 1000 1000 1000 1000 1000	400 400 450 450 570 570 710 710	250 250 250 250 300 300 400 400	360 380 440 440 500 555 650 710	4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	16 15 16 16 16 16 16 16	12 15 15 15 15 15 15 15	952 952 952 952 952 952 952 952	20 20 20 25 25 25 32 32	86 91 99 107 127 135 183 199	65 70 78 86 106 114 162 178
MSA1000-90S MSA1000-90L MSA1000-100L MSA1000-112M MSA1000-132S MSA1000-132M MSA1000-160M MSA1000-160L MSA1000-180M MSA1000-180L MSA1000-200L	1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000	1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100	420 420 500 590 590 590 790 790 790 790 840	300 300 300 300 300 420 420 500 500 500 550	360 380 440 455 515 570 655 725 745 775 840	4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 5.0	16 16 16 16 16 16 16 16 16 16 16	15 15 15 15 15 15 15 15 15 15 15	1052 1052 1052 1052 1052 1052 1052 1052 1052 1052 1052	20 20 20 25 25 25 32 32 38 38 52	97 103 110 118 133 143 200 217 240 267 340	73 79 86 92 106 115 163 180 203 235 278
MSA1250-132S MSA1250-132M MSA1250-160M MSA1250-160L MSA1250-180M MSA1250-180L MSA1250-200L MSA1250-225S MSA1250-225M MSA1250-250S MSA1250-250M	1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250	1350 1350 1350 1350 1350 1350 1350 1350 1350 1350 1350	590 590 790 790 790 790 840 1000 1000 1000 1000	300 300 420 420 500 500 590 590 590 590 590	515 570 665 725 745 775 840 880 910 940 980	4.0 4.0 4.0 4.0 5.0 5.0 5.0 6.0 6.0 6.0 6.0	20 20 20 20 20 20 20 20 20 20 20	15 15 15 15 15 15 15 15 15 15 15	1320 1320 1320 1320 1320 1320 1320 1320 1320 1320 1320	25 25 32 32 38 38 52 * * * *	170 180 240 260 280 320 360 * * * *	133 143 191 211 231 266 307 * * * *

Motor frame size
Fan dia. in mm

All dimensions in mm.

Dimensions Data

Model : 500 2P (2880RPM, TYPE D)



SOUND DATA

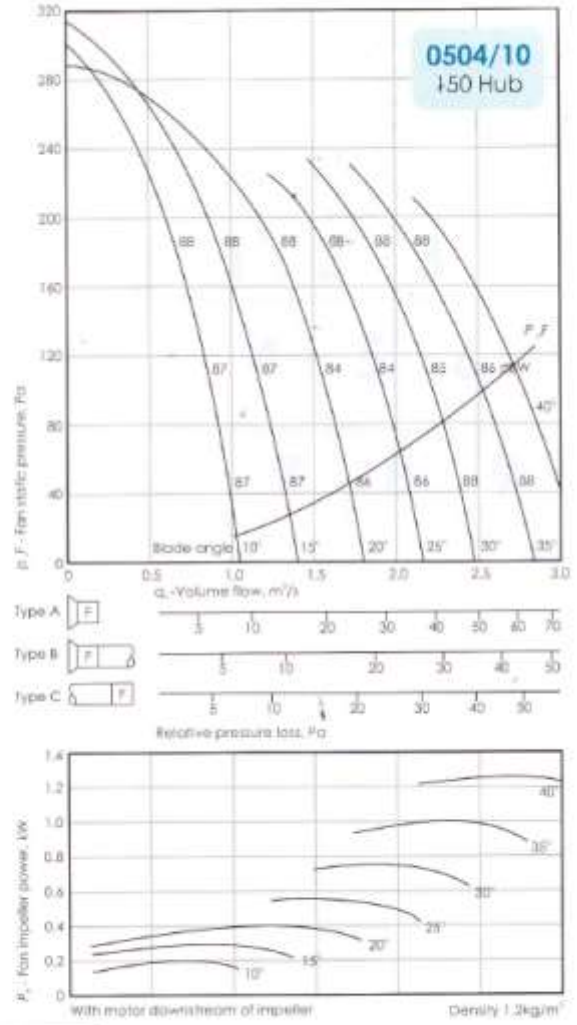
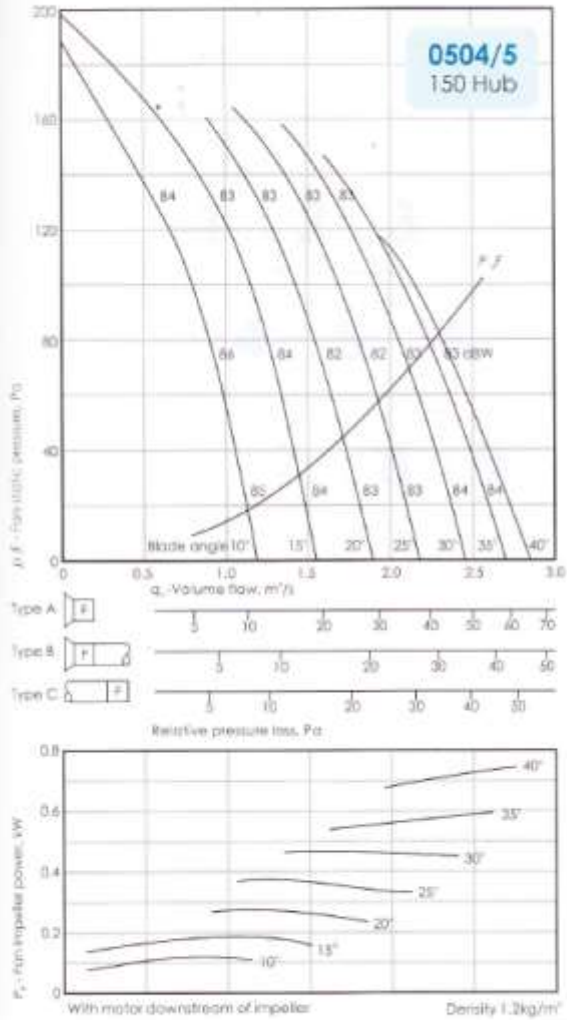
Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB							dB (A)		
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	Outlet	0	11	8	6	7	6	10	12	18	2
2	Inlet	+3	6	18	8	6	8	12	14	21	4
	Outlet	0	9	14	7	10	7	8	10	15	2
3	Inlet	+1	7	15	6	6	9	12	14	20	4
	Outlet	0	8	10	4	8	10	12	16	21	5
4	Inlet	0	7	11	6	8	6	11	15	19	3
	Outlet	0	13	10	5	8	8	9	16	22	3
5	Inlet	+2	3	15	10	11	8	13	14	19	5
	Outlet	0	10	13	6	9	6	8	11	15	2
6	Inlet	+1	4	16	8	9	10	13	15	21	5
	Outlet	0	7	4	-6	10	12	16	19	23	7
7	Inlet	+1	8	7	7	8	7	11	14	22	3
	Outlet	0	12	11	5	7	8	11	17	26	4
8	Inlet	+2	3	18	12	10	9	11	13	19	4
	Outlet	0	8	14	7	8	7	7	10	14	1
9	Inlet	0	6	13	6	8	9	11	12	24	4
	Outlet	0	10	9	6	8	8	11	14	27	4
All	In/Out	O/A	10	6	2	0	0	0	0	0	O/A

Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB							dB (A)		
		63	125	250	500	1K	2K	4K		8K	
1	Inlet	1	18	14	6	5	5	11	18	21	2
	Outlet	0	12	13	8	6	7	7	10	14	1
2	Inlet	+1	10	16	12	7	4	7	11	17	1
	Outlet	0	12	15	10	7	6	6	10	14	1
3	Inlet	1	10	14	10	6	5	8	10	15	1
	Outlet	0	10	13	9	7	6	8	11	15	2
4	Inlet	0	15	17	9	4	5	11	15	17	2
	Outlet	0	11	13	9	6	7	8	11	25	2
5	Inlet	+2	11	16	14	7	5	8	10	14	1
	Outlet	0	9	14	12	6	6	7	9	13	1
6	Inlet	0	13	17	13	6	5	9	9	12	1
	Outlet	0	10	14	12	7	6	7	10	14	1
7	Inlet	+1	14	16	15	5	5	9	11	15	1
	Outlet	0	12	12	10	5	7	9	11	14	2
8	Inlet	+3	12	15	14	6	4	8	10	13	0
	Outlet	0	14	15	13	6	6	8	10	14	1
9	Inlet	+1	11	15	17	8	5	8	10	11	1
	Outlet	0	12	13	10	6	5	8	10	13	1
All	In/Out	O/A	10	6	2	0	0	0	0	0	O/A

For Free Field conditions apply the following corrections to the In-Duct figures. All figures are negative unless otherwise stated.

Dimensions Data

Model : 500 4P (1450RPM, TYPE D)



SOUND DATA

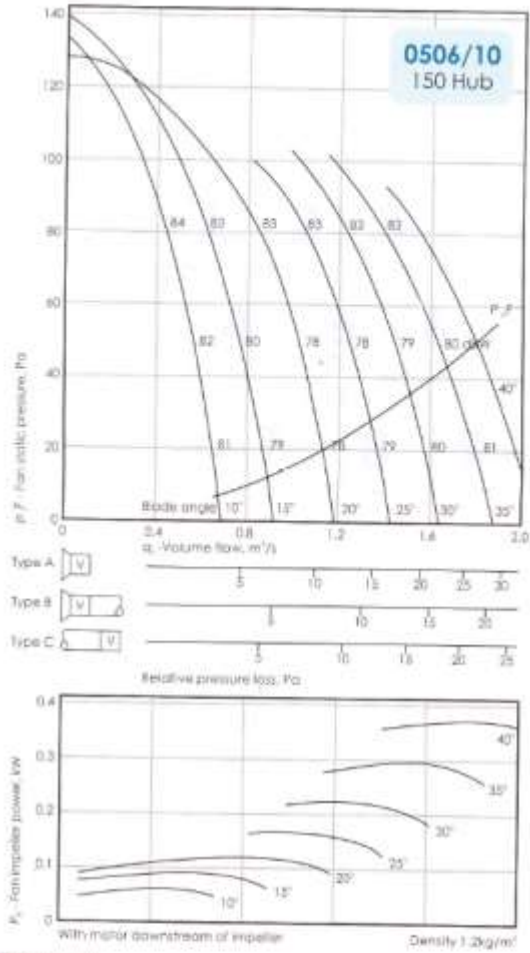
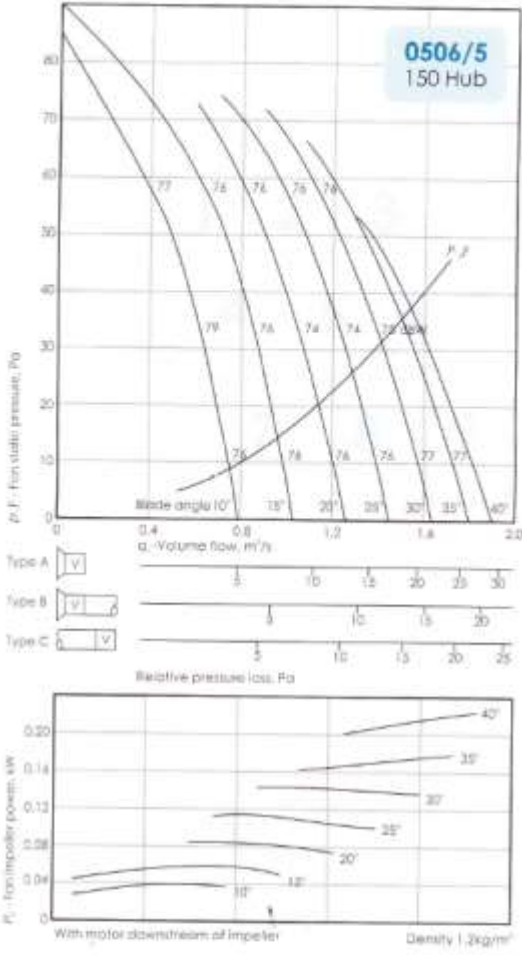
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	Outlet	0	10	8	4	10	7	11	16	20	4
3	Inlet	1	6	5	10	8	8	11	14	22	4
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7	Inlet	+1	8	3	10	11	10	12	15	26	5
	Outlet	0	13	2	11	11	10	14	20	28	6
8	Inlet	1	6	6	9	8	8	10	12	24	3
	Outlet	0	6	6	8	11	8	11	14	24	4
9	Inlet	0	6	4	9	10	13	15	16	23	7
	Outlet	0	8	4	9	11	10	13	18	26	6
All	In/Out	O/A	10	6	2	0	0	0	0	0	O/A

Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB								dB (A)	
		63	125	250	500	1K	2K	4K	8K		
1	Inlet	0	20	8	6	5	7	14	21	32	3
	Outlet	0	11	11	5	5	9	13	17	29	4
2	Inlet	0	12	10	8	7	6	10	14	28	3
	Outlet	0	12	10	6	7	8	10	14	24	3
3	Inlet	2	12	9	8	6	6	9	12	20	2
	Outlet	0	7	9	6	9	9	10	12	19	4
4	Inlet	2	17	12	6	5	6	12	16	26	3
	Outlet	0	12	12	7	5	7	10	15	25	3
5	Inlet	0	11	10	10	8	5	8	10	22	1
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7	Inlet	2	13	12	10	6	6	9	12	28	2
	Outlet	0	11	10	6	5	8	12	17	28	3
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9	Inlet	2	11	11	12	7	5	8	11	24	1
	Outlet	0	6	8	7	8	9	11	17	26	4
All	In/Out	O/A	10	6	2	0	0	0	0	0	O/A

For Free Field conditions apply the following corrections to the In-Duct figures. All figures are negative unless otherwise stated.

Dimensions Data

Model : 500 6P (960RPM, TYPE D)



SOUND DATA

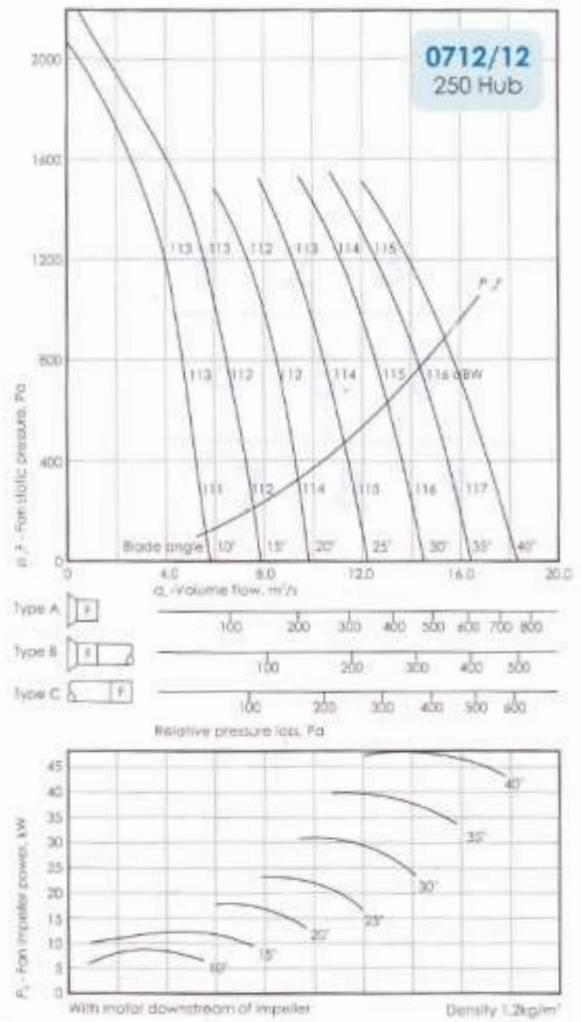
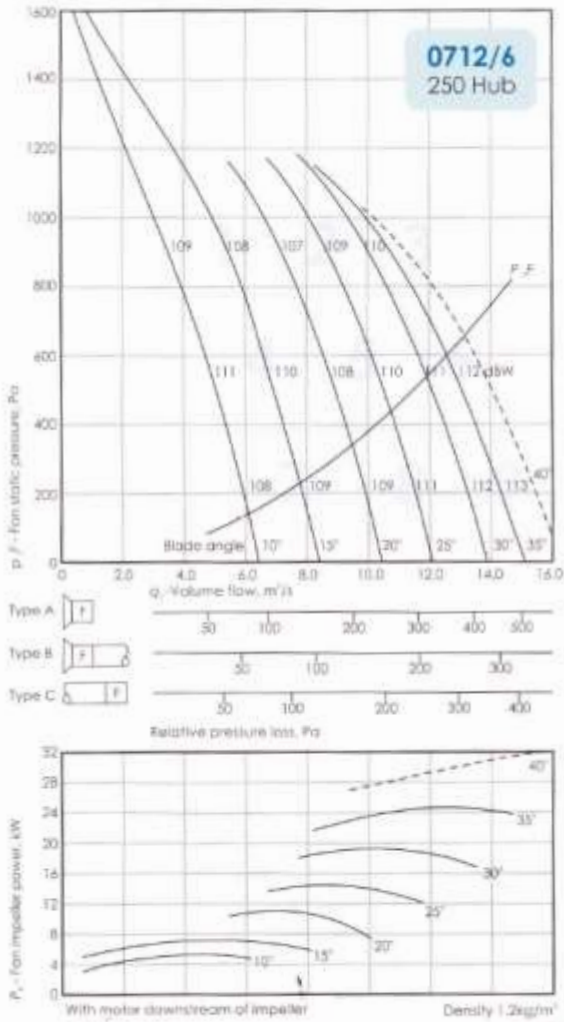
Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB								dB (A)	
		63	125	250	500	1K	2K	4K	8K		
1	Inlet	+3	4	13	9	8	9	13	20	33	5
	Outlet	0	5	9	7	7	9	15	19	28	5
2	Inlet	+3	2	12	10	10	11	15	20	32	7
	Outlet	0	5	10	9	8	9	13	17	25	5
3	Inlet	+1	4	8	9	10	11	13	17	28	6
	Outlet	0	4	8	8	9	10	15	17	26	6
4	Inlet	+2	5	15	7	6	10	17	26	32	6
	Outlet	0	5	12	7	7	10	14	19	26	5
5	Inlet	+4	2	14	11	9	12	13	20	34	7
	Outlet	0	5	12	8	8	9	12	17	27	5
6	Inlet	+2	3	14	8	7	12	13	18	30	6
	Outlet	0	4	9	7	8	9	17	21	27	6
7	Inlet	+2	5	12	6	7	9	12	20	34	5
	Outlet	0	5	8	8	7	8	12	20	28	4
8	Inlet	+4	2	13	10	9	12	13	20	34	7
	Outlet	0	5	11	7	7	8	11	17	27	4
9	Inlet	+2	3	11	8	9	12	13	18	32	6
	Outlet	0	6	8	7	6	10	15	20	27	5
All	In/Out	O/A	10	6	2	0	0	0	0	0	O/A

Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB								dB (A)	
		63	125	250	500	1K	2K	4K	8K		
1	Inlet	1	16	6	6	5	10	18	30	41	5
	Outlet	0	10	9	5	6	11	14	24	32	5
2	Inlet	0	8	8	6	7	9	14	23	37	5
	Outlet	0	10	8	5	7	10	13	20	30	5
3	Inlet	2	8	7	6	7	8	11	18	29	4
	Outlet	0	6	7	6	6	9	15	22	30	5
4	Inlet	1	7	15	6	5	9	16	25	37	5
	Outlet	0	9	7	6	5	9	12	21	30	4
5	Inlet	+1	2	14	11	9	12	13	20	34	7
	Outlet	0	9	10	8	7	8	9	16	28	3
6	Inlet	1	3	14	9	7	11	12	18	31	5
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	Outlet	0	9	10	6	6	10	12	20	32	5
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	Outlet	0	8	9	7	6	8	9	17	28	3
9	Inlet	0	7	10	7	7	7	10	16	31	3
	Outlet	0	6	8	8	9	8	11	19	29	4
All	In/Out	O/A	10	6	2	0	0	0	0	0	O/A

For free field conditions apply the following corrections to the in-Duct figures. All figures are negative unless otherwise stated.

Dimensions Data

Model : 710 2P (2880RPM, TYPE D)



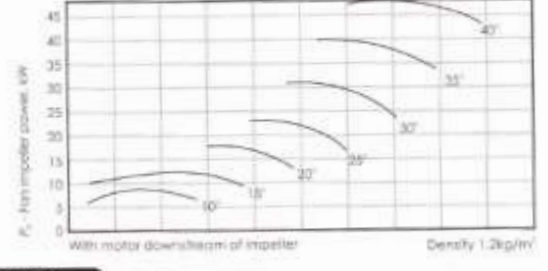
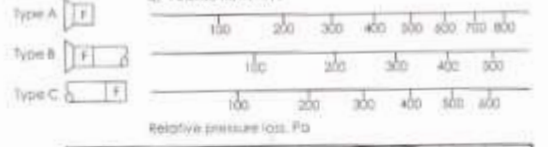
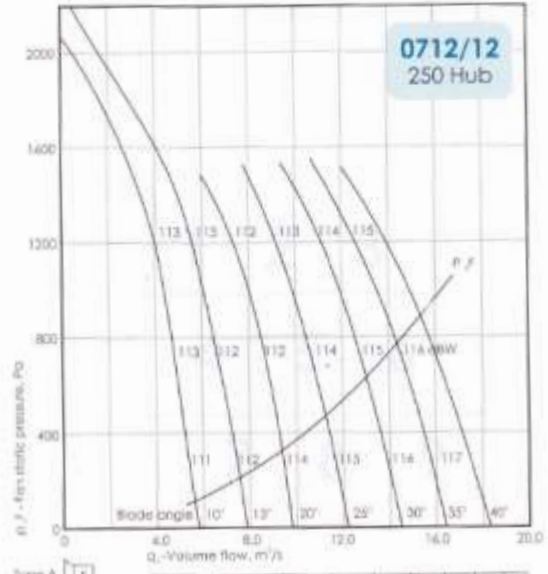
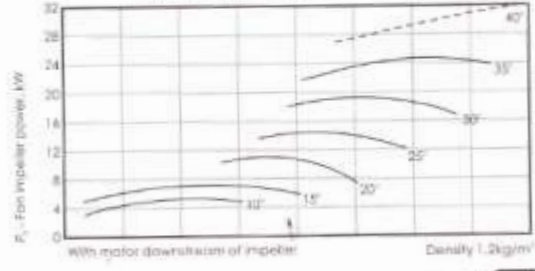
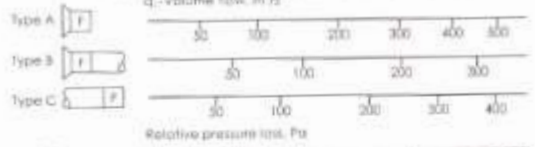
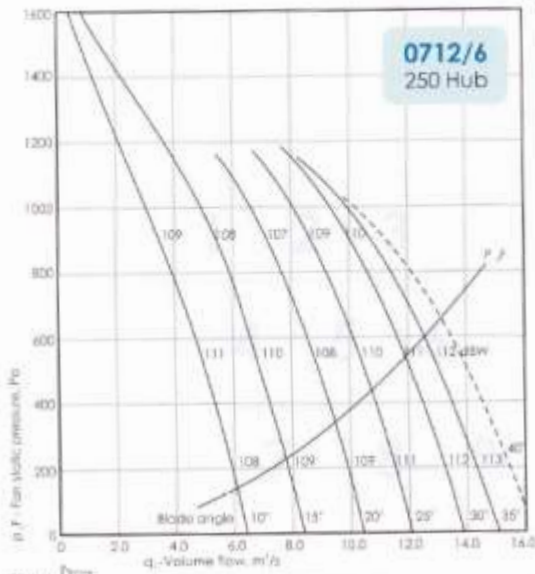
SOUND DATA

Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB									
		63	125	250	500	1K	2K	4K	8K	dB (A)	
1	Inlet	+4	22	19	9	2	8	14	20	25	3
	Outlet	0	8	12	8	7	8	9	12	16	3
2	Inlet	+2	8	-16	6	6	8	12	14	20	3
	Outlet	0	8	13	8	8	9	9	11	14	3
3	Inlet	0	6	9	3	8	14	17	18	23	6
	Outlet	0	8	12	8	8	9	9	10	15	3
4	Inlet	2	14	18	11	5	4	10	18	23	1
	Outlet	0	9	7	6	7	9	11	15	19	4
5	Inlet	0	7	17	6	7	9	13	15	17	4
	Outlet	0	8	12	7	7	9	11	13	16	4
6	Inlet	2	5	11	-4	7	13	17	20	26	6
	Outlet	0	8	11	6	7	9	13	16	18	4
7	Inlet	0	9	16	8	5	5	10	14	15	2
	Outlet	0	10	10	6	6	9	11	14	22	4
8	Inlet	+1	7	16	6	6	8	11	13	15	3
	Outlet	0	9	13	6	6	9	10	12	15	3
9	Inlet	3	7	14	7	6	9	14	16	19	4
	Outlet	0	7	8	7	7	10	13	16	24	5
All	In/Out	O/A	8	4	1	0	0	0	0	0	O/A

Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB									
		63	125	250	500	1K	2K	4K	8K	dB (A)	
1	Inlet	0	20	17	12	3	5	9	16	24	1
	Outlet	0	7	9	10	7	6	8	12	17	2
2	Inlet	0	14	18	14	7	5	7	10	17	1
	Outlet	0	10	14	15	9	8	5	9	13	1
3	Inlet	2	11	10	10	6	5	9	13	19	2
	Outlet	0	6	12	10	6	7	8	14	22	2
4	Inlet	2	18	22	19	5	4	6	14	22	0
	Outlet	0	10	11	9	7	6	8	10	15	1
5	Inlet	+1	10	16	13	6	6	8	10	15	1
	Outlet	0	9	13	14	8	8	7	9	14	2
6	Inlet	1	7	10	9	3	10	14	15	22	3
	Outlet	0	7	11	13	7	6	9	13	23	2
7	Inlet	+1	14	17	16	6	5	8	12	15	1
	Outlet	0	9	11	11	7	7	8	12	21	2
8	Inlet	+2	11	16	13	6	5	8	10	14	1
	Outlet	0	10	13	13	7	8	7	9	14	2
9	Inlet	+2	11	16	13	6	5	8	10	14	1
	Outlet	0	7	9	10	7	7	8	12	16	2
All	In/Out	O/A	8	4	1	0	0	0	0	0	O/A

For free field conditions apply the following corrections to the in-Duct figures. All figures are negative unless otherwise stated.

Model : 710 2P (2880RPM, TYPE D)



SOUND DATA

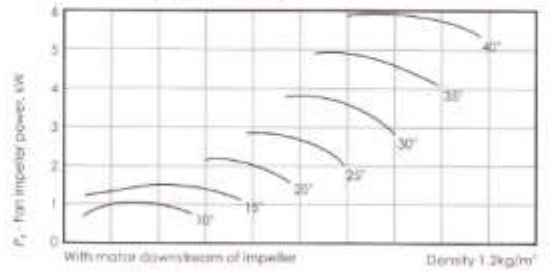
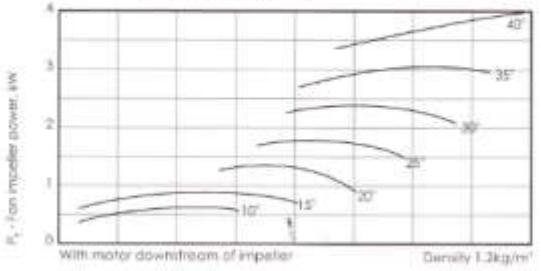
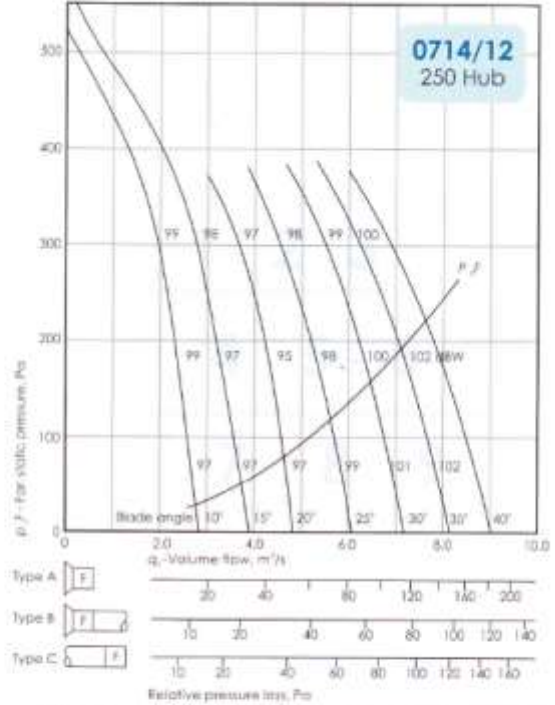
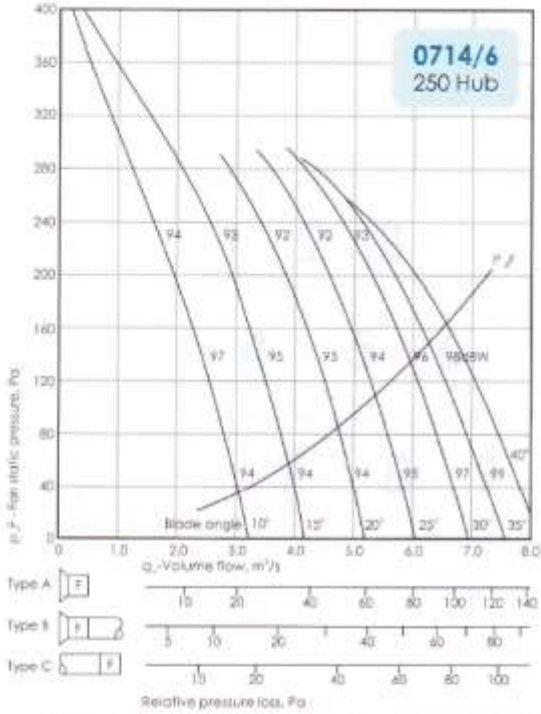
Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB								dB (A)	
		63	125	250	500	1K	2K	4K	8K		
1	Inlet	+4	22	19	9	2	8	14	20	25	3
	Outlet	0	8	12	8	7	8	9	12	16	3
2	Inlet	+2	8	-16	6	6	8	12	14	20	3
	Outlet	0	8	13	8	8	9	9	11	14	3
3	Inlet	0	6	9	3	8	14	17	18	23	6
	Outlet	0	8	12	8	8	9	9	10	15	3
4	Inlet	2	14	18	11	5	4	10	18	23	1
	Outlet	0	9	7	6	7	9	11	15	19	4
5	Inlet	0	7	17	6	7	9	13	15	17	4
	Outlet	0	8	12	7	7	9	11	13	16	4
6	Inlet	2	5	11	-4	7	13	17	20	26	6
	Outlet	0	8	11	6	7	9	13	16	18	4
7	Inlet	0	9	16	8	5	5	10	14	15	2
	Outlet	0	10	10	6	6	9	11	14	22	4
8	Inlet	+1	7	16	6	6	8	11	13	15	3
	Outlet	0	9	13	6	6	9	10	12	15	3
9	Inlet	3	7	14	7	6	9	14	16	19	4
	Outlet	0	7	8	7	7	10	13	16	24	5
All	In/Out	O/A	8	4	1	0	0	0	0	0	O/A

Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB								dB (A)	
		63	125	250	500	1K	2K	4K	8K		
1	Inlet	0	20	17	12	3	5	9	16	24	1
	Outlet	0	7	9	10	7	6	8	12	17	2
2	Inlet	0	14	18	14	7	5	7	10	17	1
	Outlet	0	10	14	15	9	8	5	9	13	1
3	Inlet	2	11	10	10	6	5	9	13	19	2
	Outlet	0	6	12	10	6	7	8	14	22	2
4	Inlet	2	18	22	19	5	4	6	14	22	0
	Outlet	0	10	11	9	7	6	8	10	15	1
5	Inlet	+1	10	16	13	6	6	8	10	15	1
	Outlet	0	9	13	14	8	8	7	9	14	2
6	Inlet	1	7	10	9	3	10	14	15	22	3
	Outlet	0	7	11	13	7	6	9	13	23	2
7	Inlet	+1	14	17	16	6	5	8	12	15	1
	Outlet	0	9	11	11	7	7	8	12	21	2
8	Inlet	+2	11	16	13	6	5	8	10	14	1
	Outlet	0	10	13	13	7	8	7	9	14	2
9	Inlet	+2	11	16	13	6	5	8	10	14	1
	Outlet	0	7	9	10	7	7	8	12	16	2
All	In/Out	O/A	8	4	1	0	0	0	0	0	O/A

For free field conditions apply the following corrections to the In-Duct figures. All figures are negative unless otherwise stated.

Dimensions Data

Model : 710 4P (1450RPM, TYPE D)



SOUND DATA

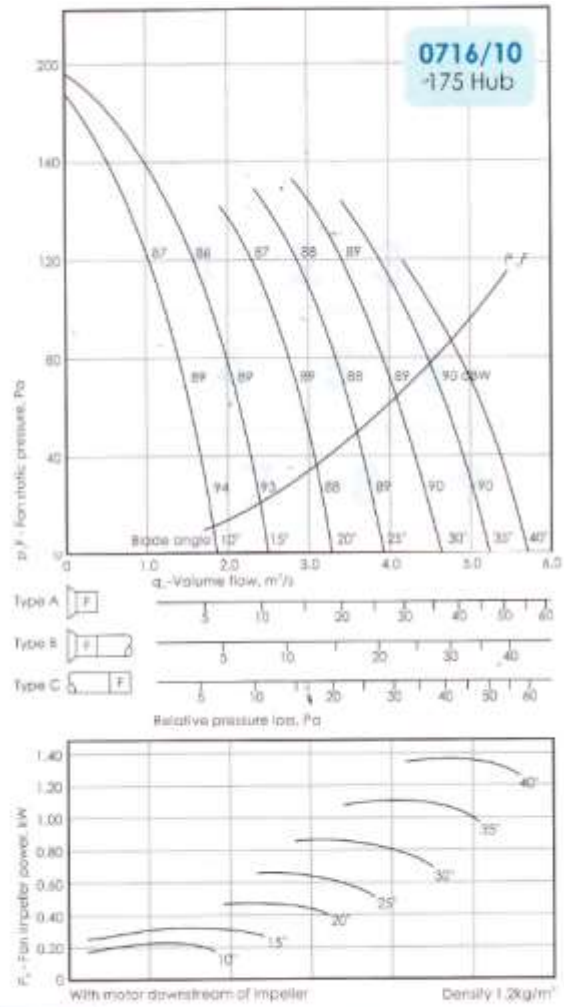
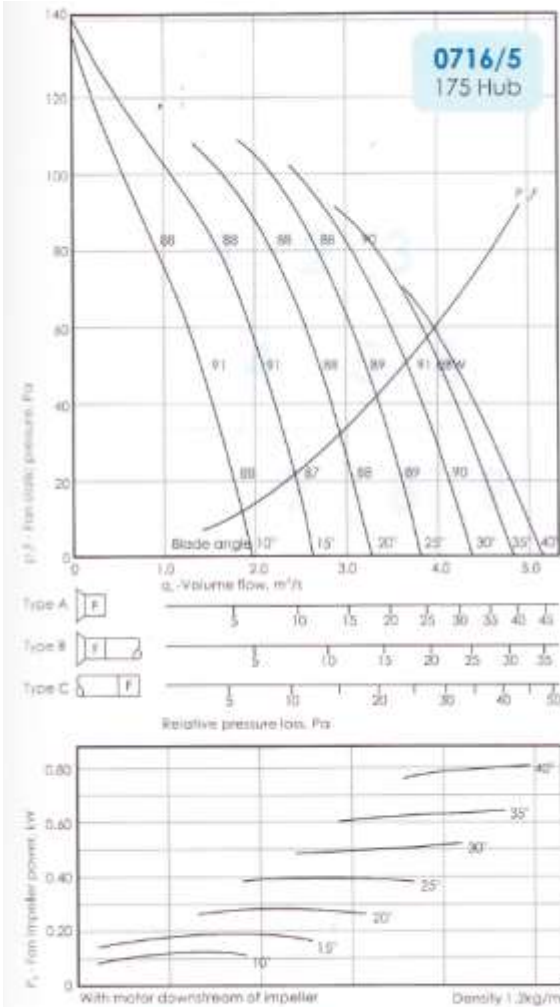
Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB								dB (A)	
		63	125	250	500	1K	2K	4K	8K		
1	Inlet	1	15	13	8	3	7	10	19	31	2
	Outlet	0	10	7	9	8	8	10	13	18	3
2	Inlet	1	9	10	3	-11	11	13	17	29	6
	Outlet	0	3	8	12	12	9	10	12	16	4
3	Inlet	2	6	5	8	10	14	16	18	29	8
	Outlet	0	5	6	7	9	13	15	17	25	7
4	Inlet	4	9	10	8	4	7	12	16	30	3
	Outlet	0	13	5	8	8	9	9	13	21	3
5	Inlet	2	4	8	9	10	12	15	17	26	7
	Outlet	0	4	8	11	11	11	13	15	18	6
6	Inlet	3	4	6	7	9	16	20	23	33	9
	Outlet	0	3	7	8	10	12	14	17	22	7
7	Inlet	2	8	7	5	8	8	13	17	24	4
	Outlet	0	13	7	8	4	9	11	17	16	3
8	Inlet	0	6	7	5	8	10	13	15	23	5
	Outlet	0	-6	7	8	10	9	12	13	19	5
9	Inlet	4	7	6	6	8	12	16	18	27	6
	Outlet	0	7	5	9	8	10	13	18	26	5
All	In/Out	O/A	8	4	1	0	0	0	0	0	O/A

Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB								dB (A)	
		63	125	250	500	1K	2K	4K	8K		
1	Inlet	1	21	20	12	2	6	11	20	32	2
	Outlet	0	12	8	7	6	9	11	13	20	3
2	Inlet	1	8	19	9	5	7	11	15	26	3
	Outlet	0	8	17	12	7	4	9	13	19	1
3	Inlet	2	5	12	6	5	11	14	17	27	5
	Outlet	0	7	8	5	7	11	12	15	21	5
4	Inlet	2	15	20	11	7	4	8	15	26	1
	Outlet	0	8	8	8	7	9	11	14	21	4
5	Inlet	0	8	16	8	7	7	9	12	20	2
	Outlet	0	7	15	8	8	7	8	11	17	2
6	Inlet	1	6	12	6	6	11	15	17	27	5
	Outlet	0	4	9	8	8	9	12	15	22	5
7	Inlet	1	12	16	9	6	5	10	14	23	2
	Outlet	0	7	9	6	7	11	14	16	24	5
8	Inlet	1	9	15	6	6	7	10	12	22	2
	Outlet	0	9	14	7	7	8	9	11	18	3
9	Inlet	3	9	13	6	5	8	12	14	25	3
	Outlet	0	4	10	9	9	10	12	14	22	5
All	In/Out	O/A	8	4	1	0	0	0	0	0	O/A

For Free Field conditions apply the following corrections to the in-Duct figures. All figures are negative unless otherwise stated.

Dimensions Data

Model : 710 6P (960RPM, TYPE D)



SOUND DATA

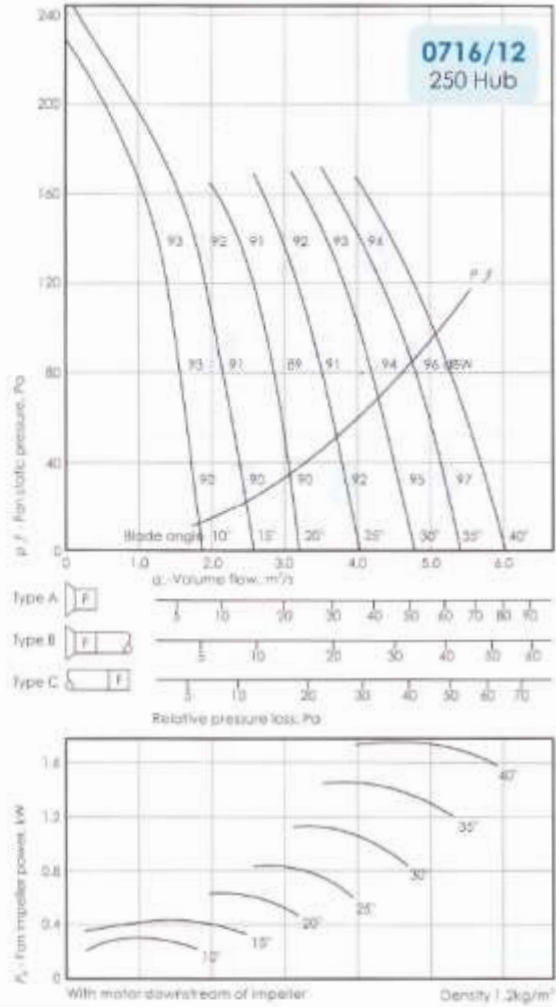
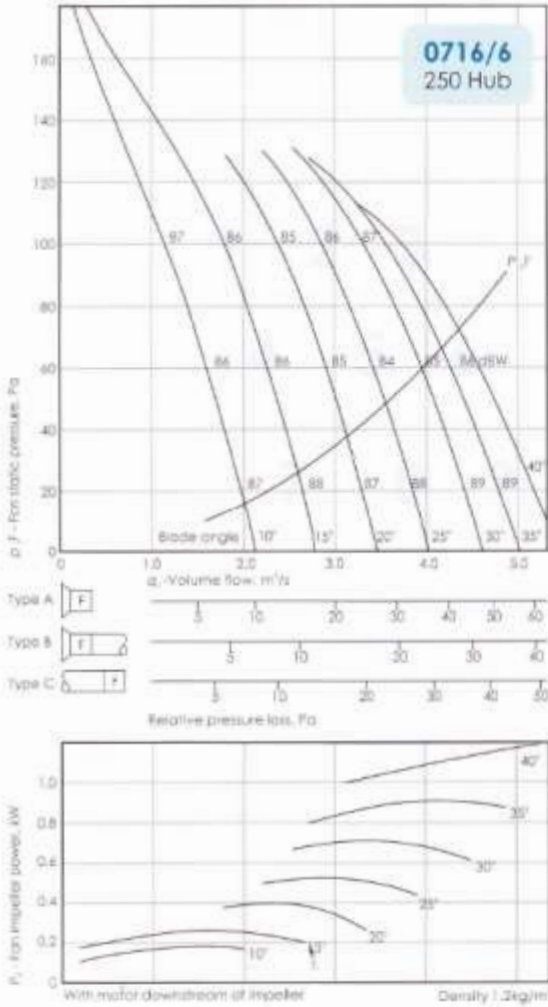
Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB								dB (A)
		63	125	250	500	1K	2K	4K	8K	
1 Inlet	1	4	10	8	5	11	20	25	37	6
1 Outlet	0	5	12	10	5	9	16	21	26	5
2 Inlet	1	4	10	13	6	12	14	19	29	6
2 Outlet	0	6	14	11	4	8	15	18	24	4
3 Inlet	3	4	11	13	6	12	15	18	27	6
3 Outlet	0	6	12	10	4	9	15	19	25	4
4 Inlet	5	5	9	8	5	10	17	25	35	5
4 Outlet	0	5	12	11	5	10	15	19	26	5
5 Inlet	3	3	6	12	8	13	15	19	32	7
5 Outlet	0	4	13	12	6	10	16	19	27	5
6 Inlet	4	4	7	10	6	13	16	19	30	6
6 Outlet	0	4	10	11	5	10	16	21	29	5
7 Inlet	2	4	9	10	7	12	16	21	33	7
7 Outlet	0	3	9	12	6	10	16	22	30	6
8 Inlet	2	3	9	12	6	14	17	21	32	7
8 Outlet	0	3	10	12	6	10	16	19	29	5
9 Inlet	2	4	9	11	6	12	18	21	31	6
9 Outlet	0	3	9	11	6	11	17	20	29	6
All In/Out	O/A	8	4	1	0	0	0	0	0	O/A

Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB								dB (A)
		63	125	250	500	1K	2K	4K	8K	
1 Inlet	0	19	4	4	6	14	24	31	40	6
1 Outlet	0	9	13	8	5	7	12	19	27	3
2 Inlet	0	7	12	9	4	9	14	19	33	4
2 Outlet	0	7	12	8	4	7	12	16	24	3
3 Inlet	2	10	12	6	4	10	14	16	27	4
3 Outlet	0	8	9	7	5	8	12	18	26	3
4 Inlet	4	10	8	6	4	11	21	29	37	5
4 Outlet	0	8	10	13	6	7	9	18	29	3
5 Inlet	2	3	9	12	8	13	16	19	33	7
5 Outlet	0	4	10	12	6	11	16	18	26	6
6 Inlet	3	5	6	10	6	13	17	17	31	6
6 Outlet	0	5	8	7	6	11	16	17	28	5
7 Inlet	0	7	6	9	6	8	11	15	32	3
7 Outlet	0	8	9	8	6	7	12	15	26	3
8 Inlet	1	7	7	8	6	9	12	16	32	4
8 Outlet	0	7	8	9	6	8	11	15	26	4
9 Inlet	0	8	7	7	5	9	12	15	30	4
9 Outlet	0	7	7	9	6	9	11	17	29	4
All In/Out	O/A	8	4	1	0	0	0	0	0	O/A

For Free Field conditions apply the following corrections to the In-Duct figures. All figures are negative unless otherwise stated.

Dimensions Data

Model : 710 6P (960RPM, TYPE D)



SOUND DATA

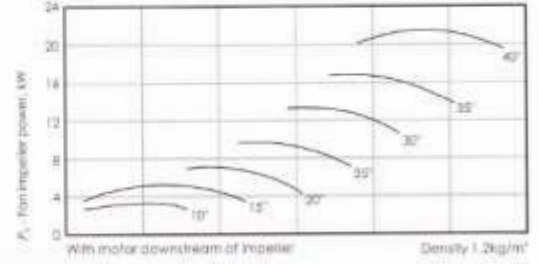
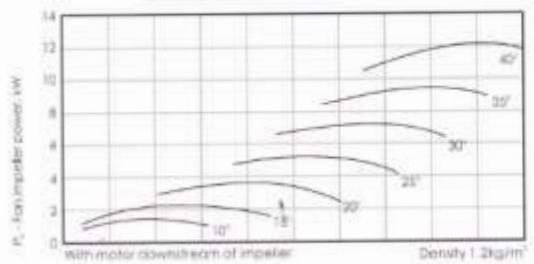
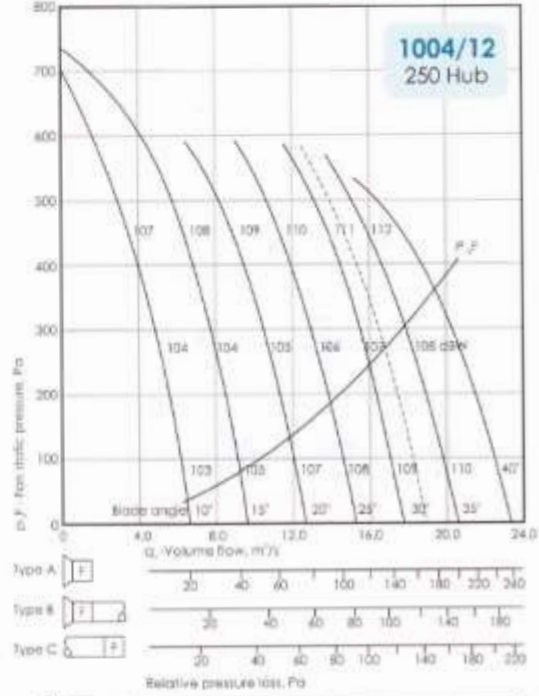
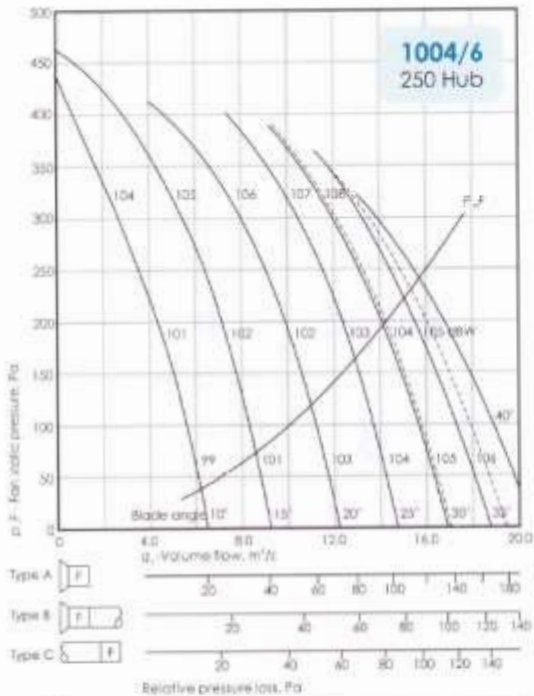
Zone	In-Duct	dB Total	In-Duct Spectrum Corrections, dB							dB (A)	
			63	125	250	500	1K	2K	4K		8K
1	Inlet	2	12	9	10	4	7	14	20	38	3
	Outlet	0	9	9	12	6	6	12	17	23	3
2	Inlet	2	4	5	13	8	11	13	18	30	6
	Outlet	0	6	9	12	6	6	12	17	23	3
3	Inlet	3	4	6	12	6	15	17	22	32	8
	Outlet	0	5	7	9	6	11	15	19	25	5
4	Inlet	5	8	7	11	6	7	12	19	38	4
	Outlet	0	8	6	9	7	10	14	18	29	5
5	Inlet	3	3	6	12	8	13	15	19	32	7
	Outlet	0	4	8	12	8	11	15	17	26	6
6	Inlet	4	4	7	9	7	15	21	24	38	8
	Outlet	0	4	8	11	8	11	15	22	30	7
7	Inlet	1	9	8	6	6	8	15	19	30	4
	Outlet	0	7	7	8	7	11	14	17	25	5
8	Inlet	2	6	5	11	8	12	15	18	30	7
	Outlet	0	6	6	10	6	9	12	15	25	4
9	Inlet	3	6	5	10	8	12	15	20	32	7
	Outlet	0	6	7	9	7	9	13	17	24	5
All	In/Out	O/A	8	4	1	0	0	0	0	0	O/A

Zone	In-Duct	dB Total	In-Duct Spectrum Corrections, dB							dB (A)	
			63	125	250	500	1K	2K	4K		8K
1	Inlet	2	19	15	9	2	7	13	23	40	2
	Outlet	0	10	12	7	4	9	12	16	25	3
2	Inlet	2	6	14	6	5	8	13	18	34	4
	Outlet	0	8	16	8	4	10	13	17	26	4
3	Inlet	3	5	9	5	7	14	18	22	37	7
	Outlet	0	4	10	5	7	13	15	19	23	6
4	Inlet	3	10	13	7	4	8	13	20	38	3
	Outlet	0	8	13	9	6	7	9	14	22	3
5	Inlet	1	3	13	9	6	11	14	17	32	5
	Outlet	0	4	16	11	4	12	13	16	24	4
6	Inlet	2	4	10	8	6	16	21	23	40	7
	Outlet	0	5	11	10	6	9	16	23	27	5
7	Inlet	2	12	16	9	6	5	10	14	23	2
	Outlet	0	7	13	7	6	8	12	16	19	4
8	Inlet	2	9	15	6	6	7	10	12	22	2
	Outlet	0	8	14	9	5	8	10	15	26	3
9	Inlet	4	9	13	6	5	8	12	14	25	3
	Outlet	0	4	8	6	8	11	14	18	27	6
All	In/Out	O/A	8	4	1	0	0	0	0	0	O/A

For free field conditions apply the following corrections to the In-Duct figures. All figures are negative unless otherwise stated.

Dimensions Data

Model : 1000 4P (1450RPM, TYPE D)



SOUND DATA

Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB								dB (A)	
		63	125	250	500	1K	2K	4K	8K		
1	Inlet	3	10	12	10	5	7	9	16	23	2
	Outlet	0	12	9	6	14	3	11	16	20	2
2	Inlet	1	12	14	10	3	7	10	16	27	2
	Outlet	0	12	15	7	4	8	12	15	22	3
3	Inlet	2	11	14	11	4	6	10	15	26	2
	Outlet	0	6	9	7	7	10	12	15	21	5
4	Inlet	+2	9	9	6	6	8	11	13	20	3
	Outlet	0	14	11	8	6	5	9	14	22	2
5	Inlet	0	6	9	8	8	10	12	15	22	5
	Outlet	0	6	8	11	10	7	9	12	17	3
6	Inlet	1	5	8	7	9	10	11	14	21	5
	Outlet	0	5	8	7	7	12	13	17	23	5
7	Inlet	2	11	9	6	7	6	11	14	17	3
	Outlet	0	13	10	8	7	7	9	12	19	2
8	Inlet	1	7	7	5	7	9	14	16	23	4
	Outlet	0	5	6	8	10	9	13	15	23	5
9	Inlet	1	7	6	6	7	9	14	16	23	5
	Outlet	0	5	6	7	8	11	14	17	22	6
All	In/Out	O/A	5	2	0	0	0	0	0	0	O/A

Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB								dB (A)	
		63	125	250	500	1K	2K	4K	8K		
1	Inlet	0	14	21	11	5	3	9	15	25	1
	Outlet	0	16	14	8	4	5	9	16	23	1
2	Inlet	+2	21	23	11	2	6	11	19	29	2
	Outlet	0	19	23	15	4	5	10	16	25	2
3	Inlet	0	17	24	13	2	6	12	19	29	2
	Outlet	0	12	18	12	3	5	10	15	23	1
4	Inlet	+1	9	6	12	10	7	8	14	17	3
	Outlet	0	8	16	14	9	6	6	10	17	1
5	Inlet	2	13	20	12	6	5	7	14	22	1
	Outlet	0	11	18	15	8	5	6	12	20	1
6	Inlet	2	7	16	10	7	5	7	12	20	1
	Outlet	0	9	14	11	8	6	7	14	22	2
7	Inlet	+4	13	13	7	7	6	9	12	18	2
	Outlet	0	12	14	8	7	6	7	11	15	1
8	Inlet	+2	9	13	6	5	7	10	12	21	2
	Outlet	0	10	13	8	4	8	11	16	25	3
9	Inlet	1	8	11	8	6	8	11	13	21	3
	Outlet	0	7	10	8	5	7	10	18	23	3
All	In/Out	O/A	5	2	0	0	0	0	0	0	O/A

For free field conditions apply the following corrections to the In-Duct figures. All figures are negative unless otherwise stated.

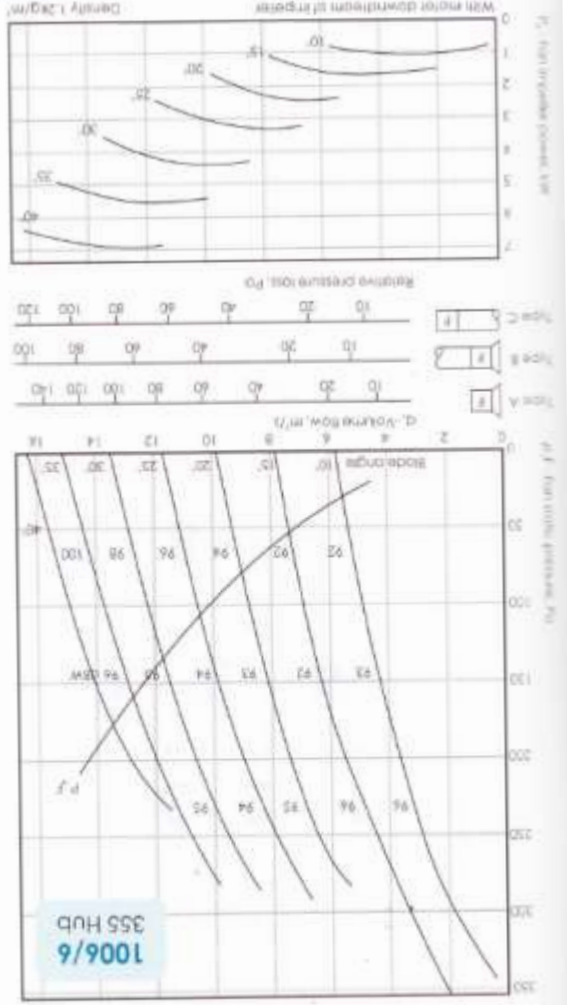
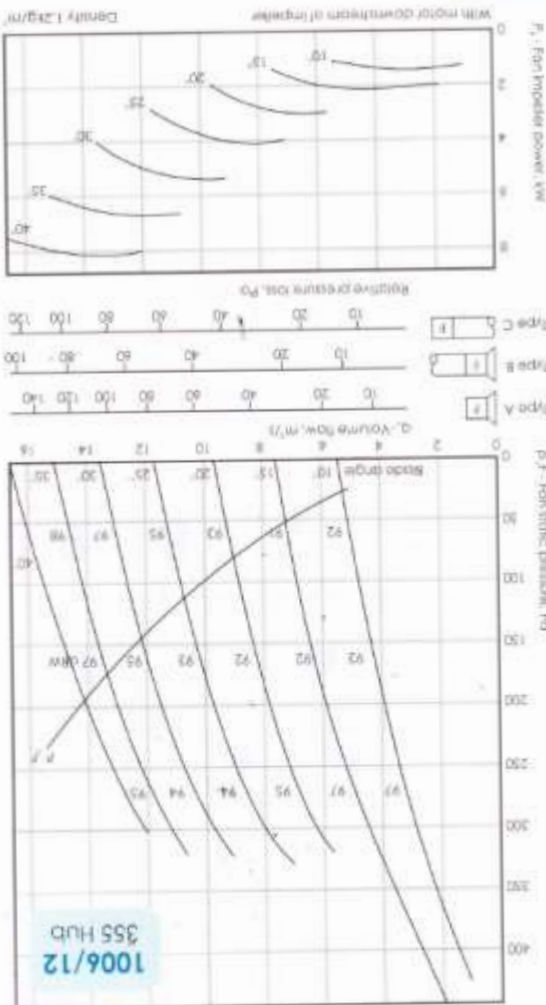
Dimensions Data

Model : 1000 6P (960RPM, TYPE D)

Zone	In-Duct	In-Duct Spectrum Corrections, dB	dB (A)
1	Inlet 0	14 11 6 4 8 13 19 26 3	3
2	Inlet 0	9 11 6 4 9 11 15 23 3	3
3	Inlet 0	7 9 6 7 9 13 16 20 4	4
4	Inlet 0	12 14 7 5 7 7 11 21 1	1
5	Inlet 0	10 13 7 7 8 8 12 22 2	2
6	Inlet 2	7 11 5 6 10 11 15 22 4	4
7	Inlet +1	6 10 6 7 10 11 15 22 4	4
8	Inlet 0	5 10 6 7 12 14 18 25 6	6
9	Inlet 2	4 9 7 9 13 15 19 24 7	7

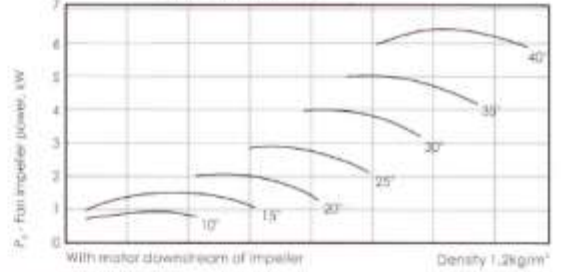
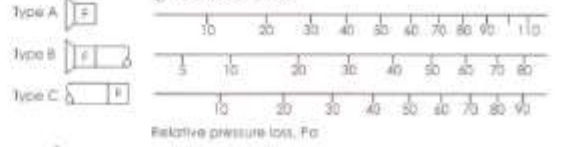
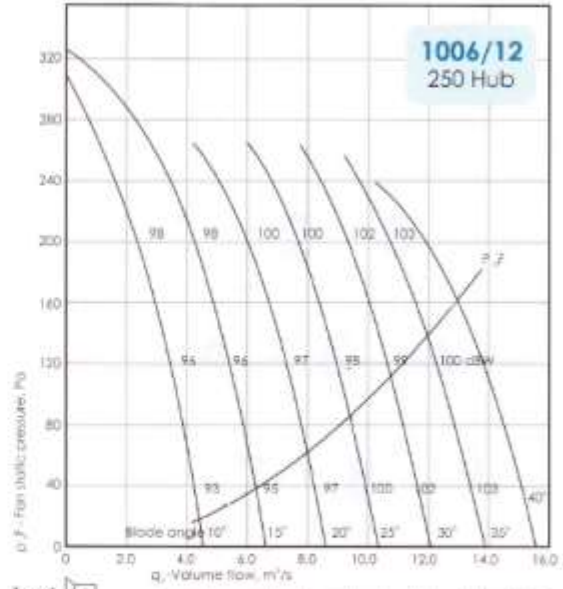
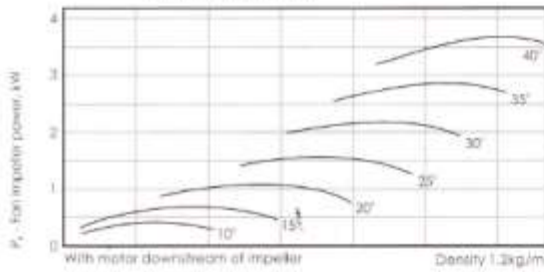
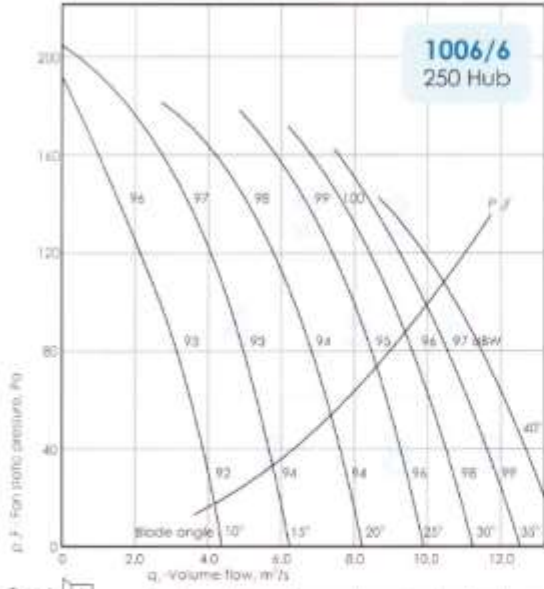
Zone	In-Duct	In-Duct Spectrum Corrections, dB	dB (A)
1	Inlet 0	10 11 7 4 8 13 18 26 3	3
2	Inlet 0	8 10 7 6 9 13 19 27 4	4
3	Inlet 1	7 9 8 5 10 12 16 25 4	4
4	Inlet 0	5 8 8 6 10 12 16 24 4	4
5	Inlet 0	5 7 7 7 9 14 17 23 5	5
6	Inlet 2	5 7 7 8 9 14 17 23 5	5
7	Inlet 1	5 7 7 8 9 14 17 23 5	5
8	Inlet 1	5 7 7 8 9 14 17 23 5	5
9	Inlet 1	5 7 7 8 9 14 17 23 5	5

SOUND DATA



Axial Flow Fan

Model : 1000 6P (960RPM, TYPE D)



SOUND DATA

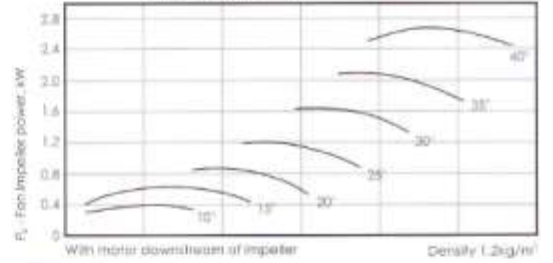
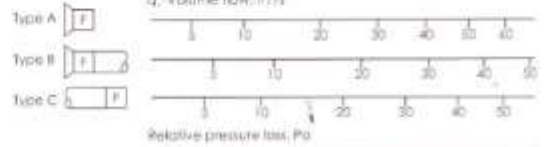
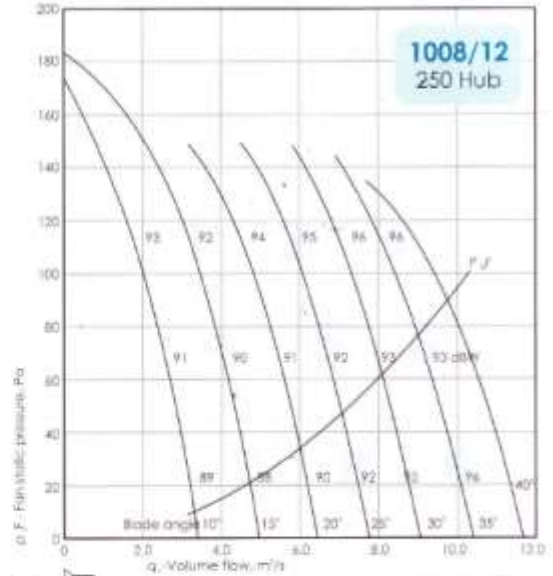
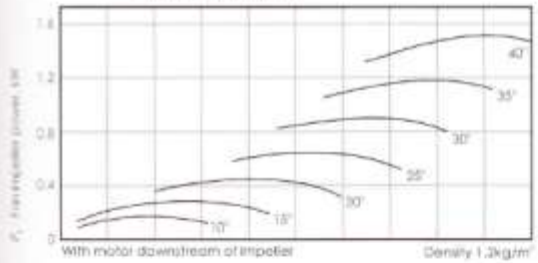
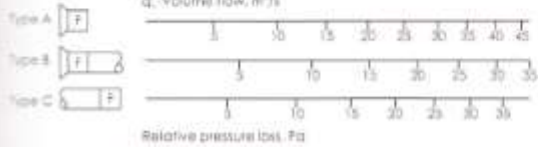
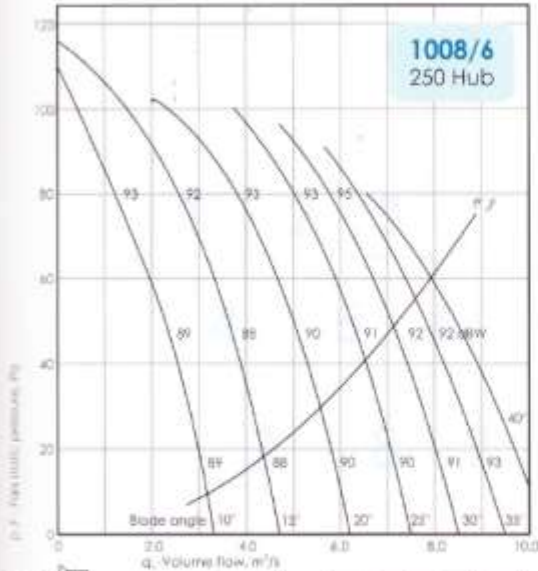
Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB								dB (A)	
		63	125	250	500	1K	2K	4K	8K		
1	Inlet	3	8	10	6	6	10	12	18	29	4
	Outlet	0	12	8	3	10	13	15	19	25	6
2	Inlet	+1	7	12	6	5	8	13	19	31	4
	Outlet	0	7	10	8	5	7	10	15	21	3
3	Inlet	0	7	13	7	6	8	14	19	30	4
	Outlet	0	5	9	6	8	12	13	17	23	6
4	Inlet	+3	5	6	8	10	13	17	21	28	8
	Outlet	0	12	9	4	6	8	11	15	22	3
5	Inlet	0	5	6	8	8	12	16	20	32	7
	Outlet	0	6	7	8	7	10	13	16	20	5
6	Inlet	3	5	7	7	6	12	16	19	30	6
	Outlet	0	5	8	7	-7	12	13	17	23	5
7	Inlet	1	11	8	5	5	12	16	18	24	5
	Outlet	0	12	10	7	6	6	8	11	18	1
8	Inlet	0	6	6	6	10	13	16	18	28	7
	Outlet	0	8	9	7	5	9	8	17	21	3
9	Inlet	2	6	6	7	10	12	14	19	26	7
	Outlet	0	8	10	7	6	8	9	14	24	3
All	In/Out	O/A	5	2	0	0	0	0	0	0	O/A

Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB								dB (A)	
		63	125	250	500	1K	2K	4K	8K		
1	Inlet	3	9	11	6	6	9	12	14	24	4
	Outlet	0	9	15	8	5	8	11	16	24	3
2	Inlet	1	10	14	7	5	7	11	17	27	3
	Outlet	0	7	14	7	5	8	11	16	24	3
3	Inlet	2	6	15	9	5	7	12	17	27	3
	Outlet	0	8	14	10	6	9	4	23	28	1
4	Inlet	+2	6	8	5	10	10	15	20	24	6
	Outlet	0	13	18	9	6	6	8	13	21	2
5	Inlet	1	9	14	5	6	8	14	19	30	4
	Outlet	0	7	14	8	6	7	11	18	24	3
6	Inlet	1	6	12	8	6	6	14	18	29	3
	Outlet	0	7	11	10	5	7	13	22	26	4
7	Inlet	+4	10	13	6	7	7	9	14	15	2
	Outlet	0	12	15	9	7	6	8	11	18	2
8	Inlet	2	8	15	4	9	10	12	14	19	5
	Outlet	0	8	13	7	5	7	10	16	23	3
9	Inlet	1	6	12	6	9	10	12	14	18	5
	Outlet	0	7	11	9	6	5	11	21	26	2
All	In/Out	O/A	5	2	0	0	0	0	0	0	O/A

For Free Field conditions apply the following corrections to the In-Duct figures. All figures are negative unless otherwise stated.

Dimensions Data

Model : 1000 8P (720RPM, TYPE D)



SOUND DATA

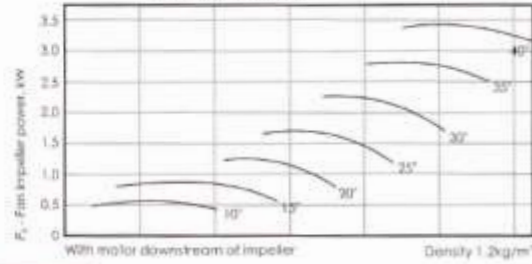
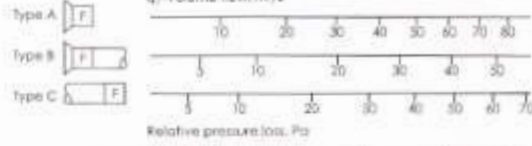
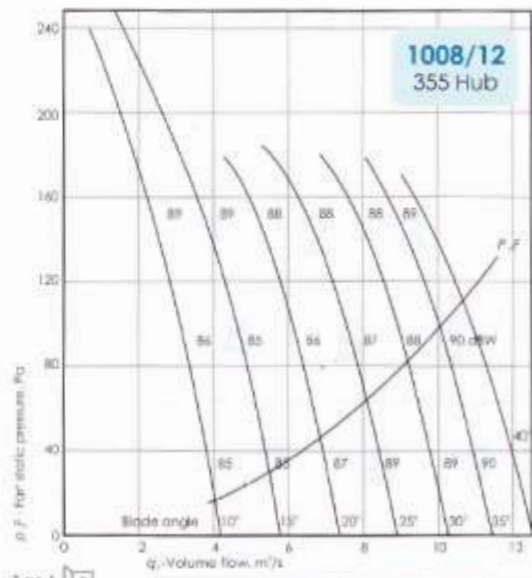
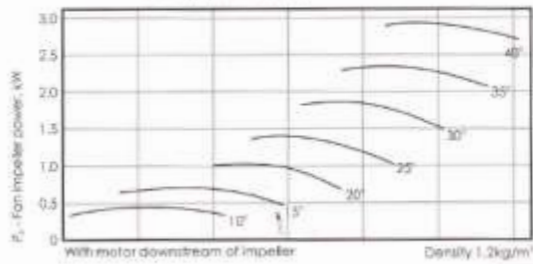
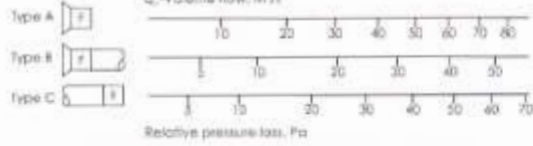
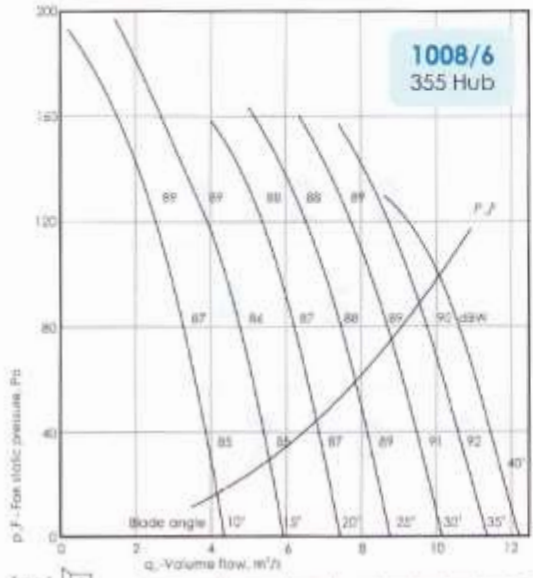
Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB								dB (A)	
		63	125	250	500	1K	2K	4K	8K		
1	Inlet	3	8	10	6	6	10	12	18	29	4
	Outlet	0	12	8	3	10	13	15	19	25	6
2	Inlet	+1	7	12	6	5	8	13	19	31	4
	Outlet	0	7	10	8	5	7	10	15	21	3
3	Inlet	0	7	13	7	6	8	14	19	30	4
	Outlet	0	5	9	6	8	12	13	17	23	6
4	Inlet	+3	5	6	8	10	13	17	21	28	8
	Outlet	0	12	9	4	6	8	11	15	22	3
5	Inlet	0	5	6	8	8	12	16	20	32	7
	Outlet	0	6	7	8	7	10	13	16	20	5
6	Inlet	3	5	7	7	6	12	16	19	30	6
	Outlet	0	5	8	7	7	12	13	17	23	5
7	Inlet	1	11	8	5	5	12	16	18	24	5
	Outlet	0	12	10	7	6	6	8	11	18	1
8	Inlet	0	6	6	6	10	13	16	18	28	7
	Outlet	0	8	9	7	5	9	8	17	21	3
9	Inlet	2	6	6	7	10	12	14	19	26	7
	Outlet	0	8	10	7	6	8	9	14	24	3
All	In/Out	O/A	5	2	0	0	0	0	0	0	O/A

Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB								dB (A)	
		63	125	250	500	1K	2K	4K	8K		
1	Inlet	3	9	11	6	6	9	12	14	24	4
	Outlet	0	9	15	8	5	8	11	16	24	3
2	Inlet	1	10	14	7	5	7	11	17	27	3
	Outlet	0	7	14	7	5	8	11	16	24	3
3	Inlet	2	6	15	9	5	7	12	17	27	3
	Outlet	0	8	14	10	6	9	4	23	28	1
4	Inlet	+2	6	8	5	10	10	15	20	24	6
	Outlet	0	13	18	9	6	6	8	13	21	2
5	Inlet	1	9	14	5	6	8	14	19	30	4
	Outlet	0	7	14	8	6	7	11	18	24	3
6	Inlet	1	6	12	8	6	6	14	18	29	3
	Outlet	0	7	11	10	5	7	13	22	26	4
7	Inlet	+4	10	13	6	7	7	9	14	15	2
	Outlet	0	12	15	9	7	6	8	11	18	2
8	Inlet	2	8	15	4	9	10	12	14	19	5
	Outlet	0	8	13	7	5	7	10	16	23	3
9	Inlet	1	6	12	6	9	10	12	14	18	5
	Outlet	0	7	11	9	6	5	11	21	26	2
All	In/Out	O/A	5	2	0	0	0	0	0	0	O/A

For Free Field conditions apply the following corrections to the In-Duct figures. All figures are negative unless otherwise stated.

Dimensions Data

Model : 1000 8P (720RPM, TYPE D)



SOUND DATA

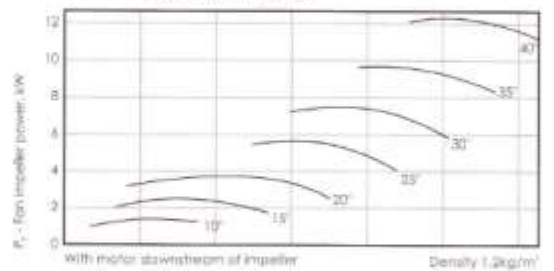
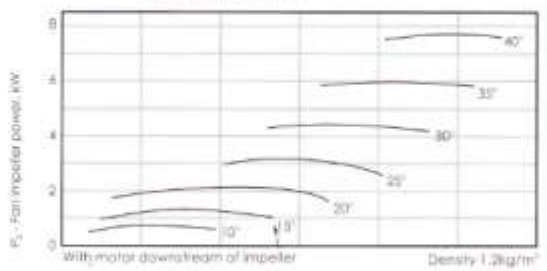
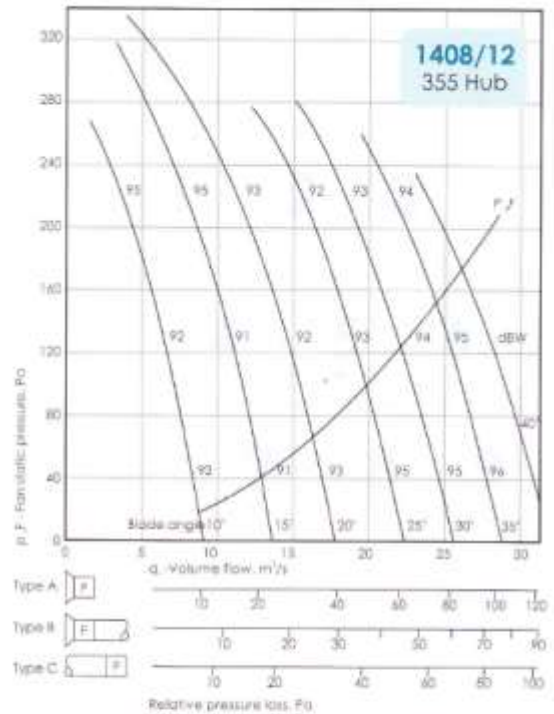
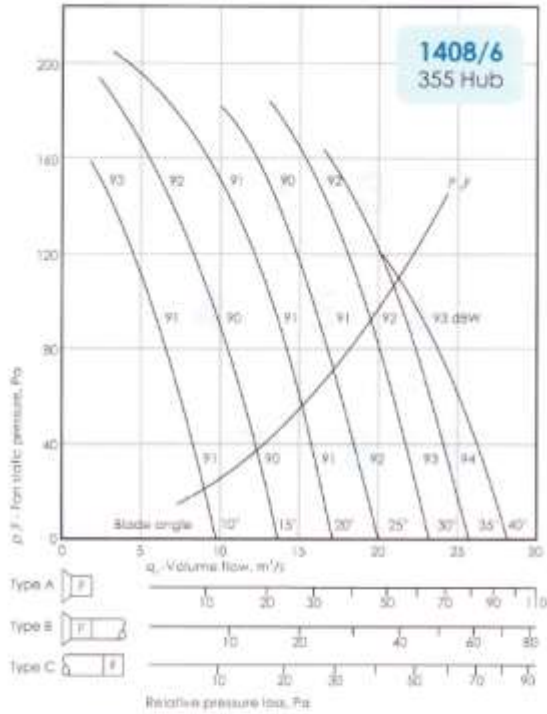
Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB								dB (A)	
		63	125	250	500	1K	2K	4K	8K		
1	Inlet	0	9	10	5	5	9	12	18	30	4
	Outlet	0	7	9	5	6	9	13	19	28	4
2	Inlet	0	6	9	6	6	10	12	17	25	4
	Outlet	0	5	8	8	7	10	12	17	22	5
3	Inlet	2	5	7	8	8	12	15	18	25	6
	Outlet	0	4	7	10	8	13	16	18	24	7
4	Inlet	0	9	10	8	7	8	8	14	28	3
	Outlet	0	7	9	9	8	9	9	15	28	4
5	Inlet	0	6	9	7	8	11	12	17	26	5
	Outlet	0	5	7	8	9	11	13	17	24	6
6	Inlet	1	4	6	8	8	11	14	18	26	6
	Outlet	0	4	6	9	8	13	15	18	24	7
7	Inlet	+1	8	8	8	7	9	9	15	29	3
	Outlet	0	6	7	8	8	9	9	15	28	4
8	Inlet	0	5	8	7	8	10	10	16	29	4
	Outlet	0	4	8	8	9	11	11	17	28	5
9	Inlet	1	6	5	8	9	12	17	21	28	7
	Outlet	0	5	5	8	9	11	16	20	25	7
All	In/Out	O/A	5	2	0	0	0	0	0	0	O/A

Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB								dB (A)	
		63	125	250	500	1K	2K	4K	8K		
1	Inlet	+1	12	10	5	5	10	14	19	32	4
	Outlet	0	9	8	5	5	10	13	19	30	4
2	Inlet	0	10	8	6	6	11	13	17	26	5
	Outlet	0	8	7	7	7	11	13	18	24	5
3	Inlet	1	7	7	5	7	13	15	18	26	6
	Outlet	0	6	6	7	8	13	15	17	24	6
4	Inlet	+1	13	10	7	7	8	8	14	28	3
	Outlet	0	9	8	7	8	8	8	14	27	3
5	Inlet	0	9	7	7	7	10	11	16	26	4
	Outlet	0	7	6	8	8	11	12	17	24	5
6	Inlet	2	6	6	5	10	13	14	18	25	7
	Outlet	0	5	6	7	11	13	15	19	24	7
7	Inlet	0	11	8	6	6	8	8	14	28	2
	Outlet	0	10	7	8	8	9	9	15	29	4
8	Inlet	0	8	7	8	8	10	10	16	28	4
	Outlet	0	6	6	10	9	11	11	17	29	5
9	Inlet	1	4	7	6	10	13	15	18	27	7
	Outlet	0	4	5	7	10	13	15	18	25	7
All	In/Out	O/A	5	2	0	0	0	0	0	0	O/A

For free field conditions apply the following corrections to the In-Duct figures. All figures are negative unless otherwise stated.

Dimensions Data

Model : 1400 8P (720RPM, TYPE D)



SOUND DATA

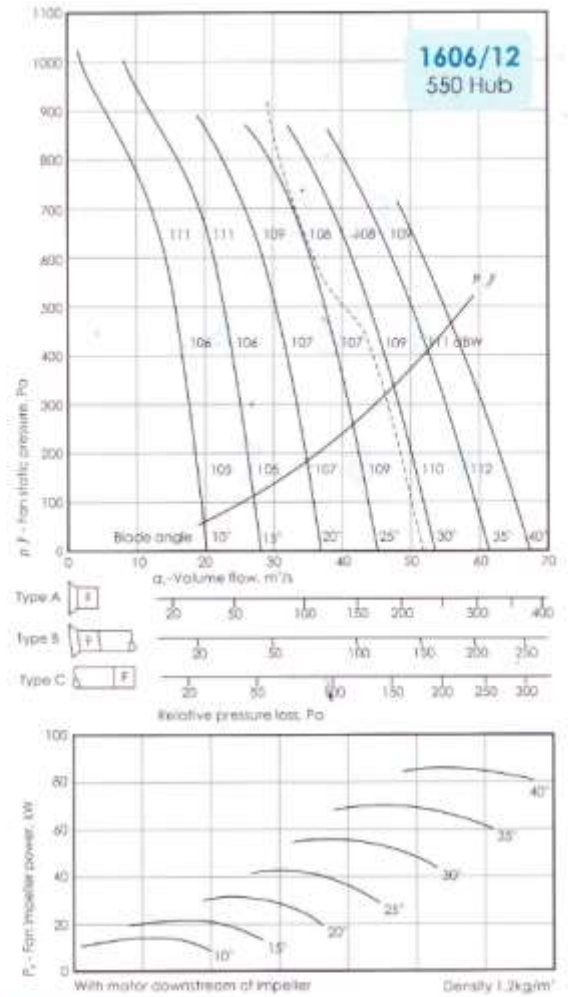
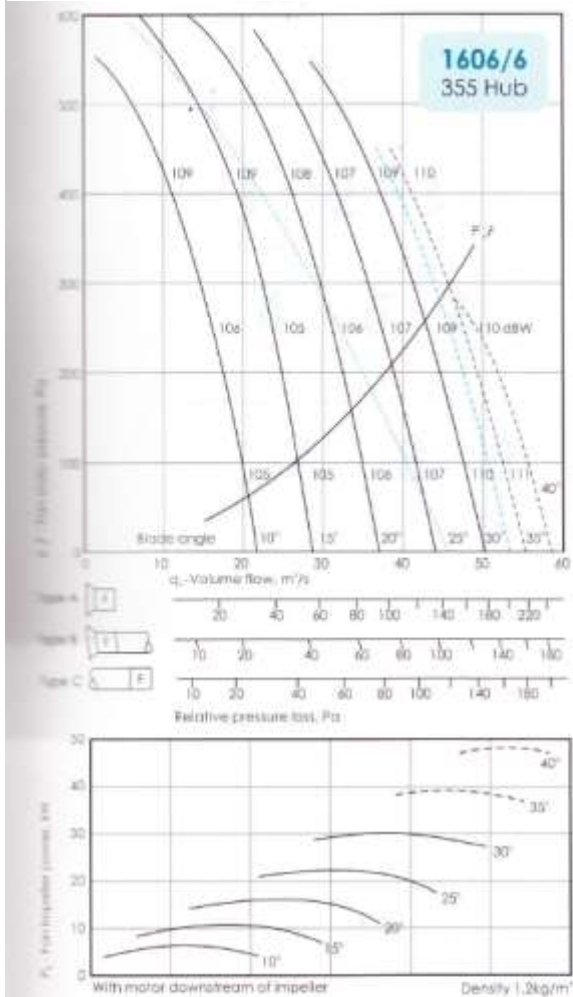
Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB									
		63	125	250	500	1K	2K	4K	8K	dB (A)	
1	Inlet	0	17	16	2	7	11	15	19	25	5
	Outlet	0	15	17	2	7	11	14	18	27	5
2	Inlet	1	4	9	10	8	10	11	15	20	5
	Outlet	0	5	9	10	8	10	10	14	20	4
3	Inlet	1	5	6	11	11	10	12	16	18	6
	Outlet	0	4	7	10	11	11	11	14	19	5
4	Inlet	0	6	12	10	9	7	9	9	18	2
	Outlet	0	6	12	10	9	7	8	10	21	2
5	Inlet	0	4	4	11	12	14	16	18	23	8
	Outlet	0	3	6	10	12	14	14	17	27	8
6	Inlet	1	4	5	10	12	12	13	18	20	7
	Outlet	0	3	6	10	12	13	13	16	21	7
7	Inlet	0	6	10	11	12	12	11	5	17	2
	Outlet	0	4	10	10	11	11	9	15	19	5
8	Inlet	0	4	5	10	12	14	17	18	22	8
	Outlet	0	3	6	10	12	14	15	18	24	8
9	Inlet	0	4	5	11	11	13	16	19	24	8
	Outlet	0	3	5	12	14	15	17	19	24	9
All	In/Out	O/A	3	1	0	0	0	0	0	0	O/A

Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB									
		63	125	250	500	1K	2K	4K	8K	dB (A)	
1	Inlet	0	22	14	7	4	6	12	15	23	2
	Outlet	0	19	15	8	4	6	11	15	26	2
2	Inlet	0	10	10	7	5	7	11	16	22	3
	Outlet	0	10	10	8	5	7	9	15	23	2
3	Inlet	0	8	6	6	8	11	16	20	24	6
	Outlet	0	8	10	7	7	8	10	14	26	3
4	Inlet	0	13	11	11	11	10	8	4	17	1
	Outlet	0	12	10	11	11	10	7	5	20	1
5	Inlet	+1	8	6	9	8	8	10	14	19	4
	Outlet	0	6	6	9	9	9	10	14	21	4
6	Inlet	0	10	3	8	10	13	18	22	26	8
	Outlet	0	10	5	3	13	14	16	21	27	7
7	Inlet	0	13	11	11	11	10	8	4	17	1
	Outlet	0	12	10	11	11	10	7	5	20	1
8	Inlet	0	6	4	9	12	13	14	12	22	6
	Outlet	0	5	5	9	12	12	13	13	23	6
9	Inlet	+2	5	6	6	11	13	15	18	25	7
	Outlet	0	4	6	7	12	13	14	16	24	7
All	In/Out	O/A	3	1	0	0	0	0	0	0	O/A

For Free Field conditions apply the following corrections to the In-Duct figures. All figures are negative unless otherwise stated.

Dimensions Data

Model : 1600 6P (960RPM, TYPE D)



SOUND DATA

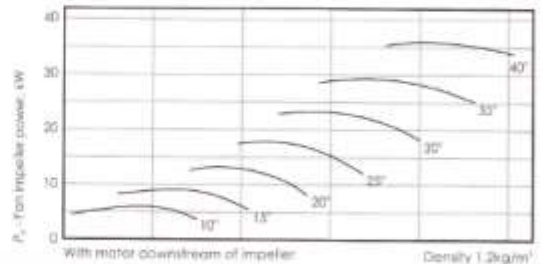
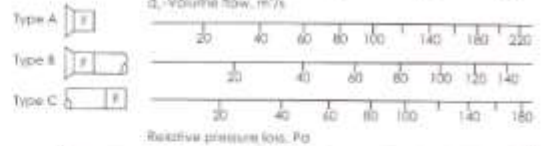
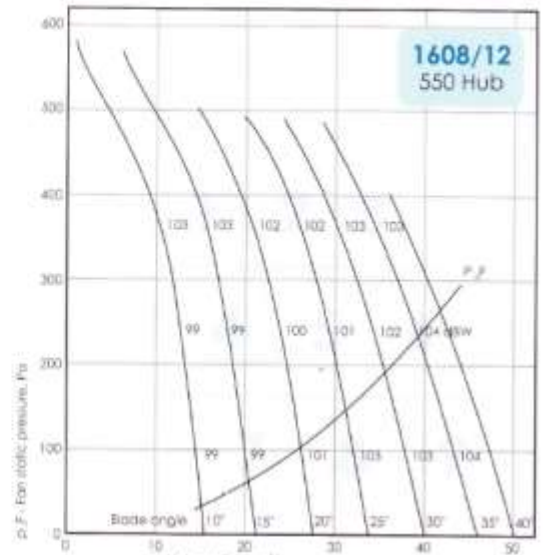
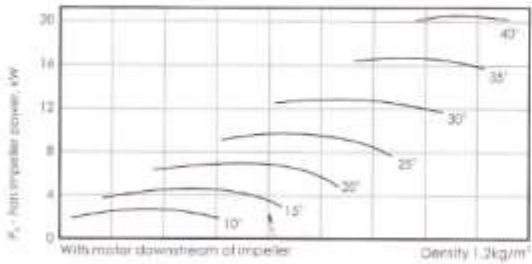
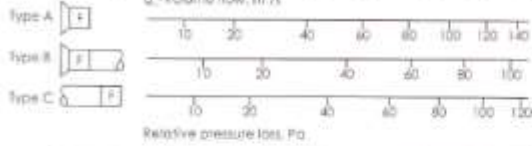
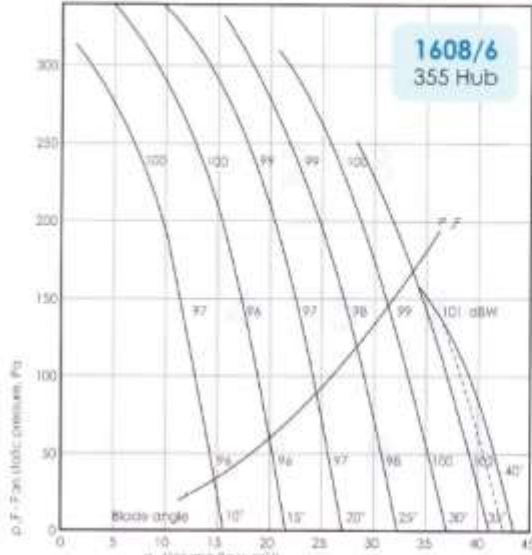
Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB								dB (A)	
		63	125	250	500	1K	2K	4K	8K		
1	Inlet	0	14	11	7	4	8	12	18	25	3
	Outlet	0	8	11	7	5	9	13	18	25	4
2	Inlet	1	8	7	7	6	8	10	14	22	3
	Outlet	0	5	8	9	8	10	11	15	22	5
3	Inlet	1	5	8	9	8	9	13	16	21	5
	Outlet	0	4	8	9	9	9	14	15	20	5
4	Inlet	0	10	9	8	9	8	8	11	21	3
	Outlet	0	4	9	9	10	10	10	13	22	4
5	Inlet	1	7	6	8	7	9	11	15	23	4
	Outlet	0	4	7	10	9	12	13	17	24	6
6	Inlet	1	5	8	9	9	10	14	17	22	6
	Outlet	0	3	7	10	10	11	15	16	20	6
7	Inlet	0	9	8	7	8	9	9	11	22	3
	Outlet	0	5	7	9	9	10	11	13	24	5
8	Inlet	0	8	6	8	8	10	12	15	24	5
	Outlet	0	4	6	9	10	12	13	16	25	6
9	Inlet	1	3	7	10	10	12	15	18	23	7
	Outlet	0	3	6	10	10	13	15	18	22	7
All	In/Out	O/A	2	0	0	0	0	0	0	0	O/A

Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB								dB (A)	
		63	125	250	500	1K	2K	4K	8K		
1	Inlet	0	14	11	6	4	8	13	19	26	3
	Outlet	0	13	10	6	5	9	13	19	27	4
2	Inlet	0	9	11	6	4	9	11	15	23	3
	Outlet	0	7	10	6	5	9	11	15	22	3
3	Inlet	1	9	10	5	5	9	14	17	22	4
	Outlet	0	7	9	6	7	9	13	16	20	4
4	Inlet	0	12	14	7	5	7	7	11	21	1
	Outlet	0	10	13	7	7	8	8	12	22	2
5	Inlet	0	7	11	5	6	10	11	15	22	4
	Outlet	0	6	10	6	7	10	11	15	22	4
6	Inlet	2	5	10	6	7	11	14	18	24	5
	Outlet	0	4	9	7	8	12	15	18	23	6
7	Inlet	+1	12	13	7	7	8	8	11	21	2
	Outlet	0	9	12	6	8	9	8	12	21	3
8	Inlet	0	6	10	6	7	10	10	13	23	4
	Outlet	0	5	10	6	9	11	11	15	24	5
9	Inlet	2	5	10	6	7	12	14	18	25	6
	Outlet	0	4	9	7	9	13	15	19	24	7
All	In/Out	O/A	2	0	0	0	0	0	0	0	O/A

For Free Field conditions apply the following corrections to the In-Duct figures. All figures are negative unless otherwise stated.

Dimensions Data

Model : 1600 8P (720RPM, TYPE D)



SOUND DATA

Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB									
		63	125	250	500	1K	2K	4K	8K	dB (A)	
1	Inlet	0	9	11	5	5	8	12	18	32	3
	Outlet	0	9	9	5	6	9	13	19	30	4
2	Inlet	0	8	10	8	5	8	10	16	25	3
	Outlet	0	7	9	9	6	9	11	16	25	4
3	Inlet	1	5	7	9	6	10	13	16	23	5
	Outlet	0	5	6	9	6	11	13	14	21	5
4	Inlet	+1	8	9	9	8	8	8	14	30	3
	Outlet	0	7	7	9	8	8	8	15	29	3
5	Inlet	+1	7	8	9	7	9	11	17	27	4
	Outlet	0	6	6	9	7	10	10	16	26	4
6	Inlet	1	5	7	10	7	11	14	17	23	6
	Outlet	0	4	6	11	7	12	14	16	22	6
7	Inlet	+1	8	7	9	8	8	8	14	31	3
	Outlet	0	7	6	9	7	9	9	16	31	4
8	Inlet	+1	6	8	9	7	9	11	17	28	4
	Outlet	0	6	6	9	7	10	11	17	28	5
9	Inlet	1	3	7	10	10	10	14	17	26	6
	Outlet	0	3	5	11	10	12	15	17	25	7
All	In/Out	O/A	2	0	0	0	0	0	0	0	O/A

Zone	In-Duct dB Total	In-Duct Spectrum Corrections, dB									
		63	125	250	500	1K	2K	4K	8K	dB (A)	
1	Inlet	+1	12	10	5	5	10	14	19	32	4
	Outlet	0	9	8	5	5	10	13	19	30	4
2	Inlet	0	10	8	6	6	11	13	17	26	5
	Outlet	0	8	7	7	7	11	13	18	24	5
3	Inlet	1	7	7	5	7	13	15	18	26	6
	Outlet	0	6	6	7	8	13	15	17	24	6
4	Inlet	+1	13	10	7	7	8	8	14	28	3
	Outlet	0	9	8	7	8	8	8	14	27	3
5	Inlet	0	9	7	7	7	10	11	16	26	4
	Outlet	0	7	6	8	8	11	12	17	24	5
6	Inlet	2	6	6	5	10	13	14	18	25	7
	Outlet	0	5	6	7	11	13	15	19	24	7
7	Inlet	0	11	8	6	6	8	8	14	26	2
	Outlet	0	10	7	8	8	9	9	15	29	4
8	Inlet	0	8	7	8	8	10	10	16	28	4
	Outlet	0	6	6	10	9	11	11	17	29	5
9	Inlet	1	4	7	6	10	13	15	18	27	7
	Outlet	0	4	5	7	10	13	15	18	25	7
All	In/Out	O/A	2	0	0	0	0	0	0	0	O/A

For Free Field conditions apply the following corrections to the In-Duct figures. All figures are negative unless otherwise stated.