

## SELECTION

$\Delta P_{TOT}$ : (TOTAL PRESSURE LOSS)  
 $L_W$ : (SOUND POWER)

B X H	duct velocity	flow rate		damper blade position									
				0° (OPEN)		20°		40°		60°		80°	
				$\Delta P_{tot}$	$L_W$	$\Delta P_{tot}$	$L_W$	$\Delta P_{tot}$	$L_W$	$\Delta P_{tot}$	$L_W$	$\Delta P_{tot}$	$L_W$
[mm x mm]	[m/s]	[m³/h]	[l/s]	[Pa]	[dB(A)]	[Pa]	[dB(A)]	[Pa]	[dB(A)]	[Pa]	[dB(A)]	[Pa]	[dB(A)]
200 X 200	1	144	40	<1	<20	1	<20	4	23	24	40	166	62
	2	288	80	3	<20	4	22	16	37	96	54	666	78
	4	576	160	13	33	17	38	62	52	383	71	>2000	>90
	6	864	240	30	43	38	48	140	63	861	82	>2000	>90
	10	1440	400	83	57	106	62	388	78	>2000	>90	>2000	>90
300 X 200	1	216	60	<1	<20	1	<20	4	23	28	39	203	63
	2	432	120	3	<20	4	23	17	37	112	54	813	79
	4	864	240	13	34	18	39	69	53	447	71	>2000	>90
	6	1296	360	29	44	40	50	154	64	1006	83	>2000	>90
	10	2160	600	80	59	110	64	429	80	>2000	>90	>2000	>90
400 X 200	1	288	80	<1	<20	1	<20	5	23	31	39	232	62
	2	576	160	3	<20	4	24	18	36	124	53	926	77
	4	1152	320	13	34	18	40	73	53	495	71	>2000	>90
	6	1728	480	28	45	40	50	165	64	1113	82	>2000	>90
	10	2880	800	79	60	112	66	458	80	>2000	>90	>2000	>90
500 X 200	1	360	100	<1	<20	1	<20	5	22	33	38	254	61
	2	720	200	3	<20	5	24	19	36	133	52	1016	75
	4	1440	400	12	34	18	40	77	52	531	69	>2000	>90
	6	2160	600	28	44	41	50	173	63	1195	81	>2000	>90
	10	3600	1000	78	60	114	66	479	80	>2000	>90	>2000	>90
600 X 200	1	432	120	<1	<20	1	<20	5	22	35	37	272	60
	2	864	240	3	<20	5	23	20	35	140	51	1088	74
	4	1728	480	12	33	18	39	79	51	560	68	>2000	89
	6	2592	720	28	44	42	50	179	62	1260	79	>2000	>90
	10	4320	1200	77	59	115	72	496	79	>2000	>90	>2000	>90
700 X 200	1	504	140	<1	<20	1	<20	5	21	36	36	287	58
	2	1008	280	3	<20	5	22	20	34	146	50	1147	72
	4	2016	560	12	32	19	38	82	50	583	66	>2000	87
	6	3024	840	27	42	42	48	183	61	1312	77	>2000	>90
	10	5040	1400	76	58	116	64	509	77	>2000	>90	>2000	>90
800 X 200	1	576	160	<1	<20	1	<20	5	<20	38	35	299	57
	2	1152	320	3	<20	5	21	21	33	151	48	1196	70
	4	2304	640	12	30	19	36	83	48	603	65	>2000	85
	6	3456	960	27	41	42	47	187	60	1356	76	>2000	>90
	10	5760	1600	76	56	117	63	520	76	>2000	>90	>2000	>90

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B X H	duct velocity	flow rate		damper blade position									
				0° [OPEN]		20°		40°		60°		80°	
				$\Delta P_{tot}$	$L_w$	$\Delta P_{tot}$	$L_w$	$\Delta P_{tot}$	$L_w$	$\Delta P_{tot}$	$L_w$	$\Delta P_{tot}$	$L_w$
[mm x mm]	[m/s]	[m³/h]	[l/s]	[Pa]	[dB(A)]	[Pa]	[dB(A)]	[Pa]	[dB(A)]	[Pa]	[dB(A)]	[Pa]	[dB(A)]
300 X 300	1	324	90	<1	<20	1	<20	5	22	35	39	272	64
	2	648	180	3	<20	5	23	20	36	140	54	1088	79
	4	1296	360	12	33	18	39	79	54	560	73	>2000	>90
	6	1944	540	28	43	42	51	179	66	1260	85	>2000	>90
	10	3240	900	77	60	115	67	496	83	>2000	>90	>2000	>90
400 X 300	1	432	120	<1	<20	1	<20	5	22	41	39	333	64
	2	864	240	3	<20	5	24	22	37	164	55	1332	79
	4	1728	480	12	33	19	41	88	55	655	73	>2000	>90
	6	2592	720	27	45	43	52	198	67	1473	85	>2000	>90
	10	4320	1200	75	62	119	70	549	84	>2000	>90	>2000	>90
500 X 300	1	540	150	<1	<20	1	<20	6	23	46	39	387	64
	2	1080	300	3	<20	5	24	24	37	184	55	1548	78
	4	2160	600	12	34	20	41	95	55	735	72	>2000	>90
	6	3240	900	26	45	44	53	213	67	1653	84	>2000	>90
	10	5400	1500	73	63	122	71	592	84	>2000	>90	>2000	>90
600 X 300	1	648	180	<1	<20	1	<20	6	23	50	39	434	63
	2	1296	360	3	<20	5	25	25	37	201	54	1738	77
	4	2592	720	12	34	20	42	100	55	803	72	>2000	>90
	6	3888	1080	26	45	45	54	226	67	1807	83	>2000	>90
	10	6480	1800	72	63	125	71	627	84	>2000	>90	>2000	>90
700 X 300	1	756	210	<1	<20	1	<20	7	22	54	39	476	63
	2	1512	420	3	<20	5	24	26	37	215	54	1905	76
	4	3024	840	11	33	20	41	105	54	862	71	>2000	>90
	6	4536	1260	26	45	46	53	236	66	1939	82	>2000	>90
	10	7560	2100	71	63	127	71	657	83	>2000	>90	>2000	>90
800 X 300	1	864	240	<1	<20	1	<20	7	22	57	39	513	63
	2	1728	480	3	<20	5	24	27	36	228	53	>2000	76
	4	3456	960	11	32	21	41	109	54	913	70	>2000	90
	6	5184	1440	25	44	46	53	245	66	>2000	81	>2000	>90
	10	8640	2400	71	62	128	70	682	82	>2000	>90	>2000	>90
900 X 300	1	972	270	<1	<20	1	<20	7	21	60	38	546	62
	2	1944	540	3	<20	5	23	28	35	239	53	>2000	75
	4	3888	1080	11	31	21	40	113	53	958	70	>2000	89
	6	5832	1620	25	43	47	52	253	65	>2000	80	>2000	>90
	10	9720	2700	70	61	130	69	703	81	>2000	>90	>2000	>90

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B X H	duct velocity	flow rate		damper blade position									
				0° [OPEN]		20°		40°		60°		80°	
				$\Delta P_{tot}$	$L_w$	$\Delta P_{tot}$	$L_w$	$\Delta P_{tot}$	$L_w$	$\Delta P_{tot}$	$L_w$	$\Delta P_{tot}$	$L_w$
[mm x mm]	[m/s]	[m³/h]	[l/s]	[Pa]	[dB(A)]	[Pa]	[dB(A)]	[Pa]	[dB(A)]	[Pa]	[dB(A)]	[Pa]	[dB(A)]
1000 X 300	1	1080	300	<1	<20	1	<20	7	20	62	38	576	62
	2	2160	600	3	<20	5	22	29	34	249	52	>2000	74
	4	4320	1200	11	30	21	39	116	52	997	69	>2000	88
	6	6480	1800	25	41	47	50	260	64	>2000	79	>2000	>90
	10	10800	3000	70	59	131	68	722	80	>2000	>90	>2000	>90
400 X 400	1	576	160	<1	<20	1	<20	6	23	50	40	434	65
	2	1152	320	3	<20	5	25	25	38	201	56	1738	79
	4	2304	640	12	34	20	42	100	56	803	74	>2000	>90
	6	3456	960	26	46	45	55	226	69	1807	86	>2000	>90
	10	5760	1600	72	64	125	73	627	86	>2000	>90	>2000	>90
500 X 400	1	720	200	<1	<20	1	<20	7	24	59	41	533	65
	2	1440	400	3	<20	5	26	28	39	235	57	>2000	79
	4	2880	800	11	35	21	44	111	57	939	74	>2000	>90
	6	4320	1200	25	47	47	56	250	70	>2000	85	>2000	>90
	10	7200	2000	70	66	129	75	694	87	>2000	>90	>2000	>90
600 X 400	1	864	240	<1	<20	1	<20	8	24	66	42	626	66
	2	1728	480	3	<20	5	27	30	39	266	57	>2000	79
	4	3456	960	11	35	21	45	120	58	1063	74	>2000	>90
	6	5184	1440	25	48	48	57	271	70	>2000	85	>2000	>90
	10	8640	2400	69	67	133	76	753	87	>2000	>90	>2000	>90
700 X 400	1	1008	280	<1	<20	1	<20	8	25	74	42	715	67
	2	2016	560	3	<20	5	27	32	40	294	57	>2000	79
	4	4032	1120	11	35	22	45	129	58	1176	75	>2000	>90
	6	6048	1680	25	48	49	58	290	70	>2000	85	>2000	>90
	10	10080	2800	68	67	136	76	805	87	>2000	>90	>2000	>90
800 X 400	1	1152	320	<1	<20	1	<20	8	25	80	43	797	67
	2	2304	640	3	<20	6	27	34	40	320	58	>2000	80
	4	4608	1280	11	35	22	45	136	58	1279	75	>2000	>90
	6	6912	1920	24	48	50	58	306	71	>2000	85	>2000	>90
	10	11520	3200	67	67	139	77	850	87	>2000	>90	>2000	>90
900 X 400	1	1296	360	<1	<20	1	<20	9	25	86	44	874	68
	2	2592	720	3	<20	6	27	36	40	343	58	>2000	80
	4	5184	1440	11	34	23	45	142	58	1372	75	>2000	>90
	6	7776	2160	24	47	51	58	320	71	>2000	85	>2000	>90
	10	12960	3600	67	67	141	76	890	87	>2000	>90	>2000	>90

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				0° [OPEN]		20°		40°		60°		80°	
				$\Delta P_{tot}$	$L_w$	$\Delta P_{tot}$	$L_w$	$\Delta P_{tot}$	$L_w$	$\Delta P_{tot}$	$L_w$	$\Delta P_{tot}$	$L_w$
[mm x mm]	[m/s]	[m³/h]	[l/s]	[Pa]	[dB(A)]	[Pa]	[dB(A)]	[Pa]	[dB(A)]	[Pa]	[dB(A)]	[Pa]	[dB(A)]
1000 X 400	1	1440	400	<1	<20	1	<20	9	25	91	44	945	69
	2	2880	800	3	<20	6	27	37	40	364	58	>2000	80
	4	5760	1600	11	33	23	45	148	58	1457	75	>2000	>90
	6	8640	2400	24	46	51	57	333	70	>2000	85	>2000	>90
	10	14400	4000	66	66	143	76	926	87	>2000	>90	>2000	>90
500 X 500	1	900	250	<1	<20	1	<20	8	25	71	43	686	67
	2	1800	500	3	<20	5	28	32	41	285	58	>2000	80
	4	3600	1000	11	36	22	46	126	59	1140	75	>2000	>90
	6	5400	1500	25	49	49	59	284	72	>2000	87	>2000	>90
	10	9000	2500	69	69	135	78	788	89	>2000	>90	>2000	>90
600 X 500	1	1080	300	<1	<20	1	<20	9	27	83	44	842	68
	2	2160	600	3	<20	6	29	35	42	333	59	>2000	81
	4	4320	1200	11	37	22	48	140	61	1333	76	>2000	>90
	6	6480	1800	24	51	50	61	314	73	>2000	87	>2000	>90
	10	10800	3000	67	71	140	80	874	90	>2000	>90	>2000	>90
700 X 500	1	1260	350	<1	<20	1	<20	10	28	95	46	997	70
	2	2520	700	3	<20	6	31	38	43	379	61	>2000	82
	4	5040	1400	11	38	23	49	152	62	1518	77	>2000	>90
	6	7560	2100	24	52	52	62	342	74	>2000	88	>2000	>90
	10	12600	3500	66	72	144	81	951	>90	>2000	>90	>2000	>90
800 X 500	1	1440	400	<1	<20	1	<20	10	29	106	47	1150	71
	2	2880	800	3	<20	6	32	41	45	423	62	>2000	83
	4	5760	1600	10	38	24	50	164	63	1693	78	>2000	>90
	6	8640	2400	23	52	53	63	368	75	>2000	89	>2000	>90
	10	14400	4000	65	72	148	82	1022	>90	>2000	>90	>2000	>90
900 X 500	1	1620	450	<1	<20	2	<20	11	30	116	49	1300	73
	2	3240	900	3	<20	6	32	43	45	464	63	>2000	84
	4	6480	1800	10	38	24	51	174	64	1858	79	>2000	>90
	6	9720	2700	23	52	54	64	391	76	>2000	90	>2000	>90
	10	16200	4500	64	72	151	83	1087	>90	>2000	>90	>2000	>90
1000 X 500	1	1800	500	<1	<20	2	<20	11	31	126	50	1444	75
	2	3600	1000	3	<20	6	33	46	46	503	64	>2000	86
	4	7200	2000	10	38	25	51	183	64	>2000	80	>2000	>90
	6	10800	3000	23	51	56	64	413	76	>2000	>90	>2000	>90
	10	18000	5000	64	72	154	83	1147	>90	>2000	>90	>2000	>90

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B X H	duct velocity	flow rate		damper blade position									
				0° [OPEN]		20°		40°		60°		80°	
				$\Delta P_{tot}$	$L_w$	$\Delta P_{tot}$	$L_w$	$\Delta P_{tot}$	$L_w$	$\Delta P_{tot}$	$L_w$	$\Delta P_{tot}$	$L_w$
[mm x mm]	[m/s]	[m³/h]	[l/s]	[Pa]	[dB(A)]	[Pa]	[dB(A)]	[Pa]	[dB(A)]	[Pa]	[dB(A)]	[Pa]	[dB(A)]
800 X 600	1	1728	480	<1	<20	2	<20	12	33	134	51	1571	75
	2	3456	960	3	22	6	36	48	49	537	66	>2000	86
	4	6912	1920	10	42	25	55	191	67	>2000	82	>2000	>90
	6	10368	2880	23	56	56	68	431	79	>2000	>90	>2000	>90
	10	17280	4800	63	77	157	87	1197	>90	>2000	>90	>2000	>90
1000 X 600	1	2160	600	<1	<20	2	23	14	37	167	56	>2000	80
	2	4320	1200	2	22	7	39	55	52	666	70	>2000	>90
	4	8640	2400	10	42	26	58	221	70	>2000	85	>2000	>90
	6	12960	3600	22	56	59	71	497	82	>2000	>90	>2000	>90
	10	21600	6000	62	78	165	89	1381	>90	>2000	>90	>2000	>90
800 X 800	1	2304	640	<1	<20	2	29	15	42	197	59	>2000	82
	2	4608	1280	2	27	7	46	62	58	788	73	>2000	>90
	4	9216	2560	10	49	28	65	247	76	>2000	88	>2000	>90
	6	13824	3840	22	64	62	78	556	87	>2000	>90	>2000	>90
	10	23040	6400	61	87	172	>90	1543	>90	>2000	>90	>2000	>90
1000 X 800	1	2880	800	<1	<20	2	35	19	50	265	68	>2000	>90
	2	5760	1600	2	<20	7	52	75	66	1058	81	>2000	>90
	4	11520	3200	10	40	30	71	301	83	>2000	>90	>2000	>90
	6	17280	4800	22	58	67	84	677	>90	>2000	>90	>2000	>90
	10	28800	8000	60	88	185	>90	1880	>90	>2000	>90	>2000	>90
1000 X 1000	1	3600	1000	<1	<20	2	50	24	65	382	81	>2000	>90
	2	7200	2000	2	29	8	68	96	80	1527	>90	>2000	>90
	4	14400	4000	10	56	33	86	384	>90	>2000	>90	>2000	>90
	6	21600	6000	22	77	73	>90	865	>90	>2000	>90	>2000	>90
	10	36000	10000	60	>90	204	>90	>2000	>90	>2000	>90	>2000	>90

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