

TBD-80 Performance Data

152 mm Inlet 1 Slot

19 mm Slot Width	600 mm Long	Air Flow, Liters/s	12	17	21	26	31	35	40
		Total Pressure, Pa	5	10	17	25	35	47	60
		Static Pressure, Pa	5	10	16	24	33	45	57
		NC (Noise Criteria)	-	16	23	28	33	37	40
		Throw, m	1 - 2.3 - 4.3	1.8 - 3 - 6	2.8 - 4 - 7	3 - 5 - 7.5	3.8 - 5.8 - 8.3	4.3 - 6.5 - 8.8	5 - 6.8 - 9.5
	1200 mm Long	Air Flow, Liters/s	14	21	28	35	42	50	57
		Total Pressure, Pa	4	8	14	22	32	44	57
		Static Pressure, Pa	3	7	13	20	28	39	51
		NC (Noise Criteria)	-	12	20	26	31	35	39
		Throw, m	0.5 - 1.5 - 3	1.5 - 2.5 - 3.8	2.3 - 3 - 4.3	2.5 - 3.3 - 5	3 - 3.8 - 5.3	3.3 - 4 - 5.8	3.8 - 4.3 - 6

203 mm Inlet 1 Slot

19 mm Slot Width	600 mm Long	Air Flow, Liters/s	14	20	26	32	38	44	50
		Total Pressure, Pa	7	15	24	37	51	69	89
		Static Pressure, Pa	7	14	24	36	50	67	87
		NC (Noise Criteria)	-	15	22	28	33	37	40
		Throw, m	1.5 - 2.8 - 5.3	2.5 - 3.8 - 6.8	3 - 5 - 7.5	4 - 5.8 - 8.5	4.5 - 6.5 - 9.3	5.5 - 7 - 10	6 - 7.5 - 10.8
	1200 mm Long	Air Flow, Liters/s	21	29	38	46	54	63	71
		Total Pressure, Pa	5	9	15	23	32	42	54
		Static Pressure, Pa	5	9	14	21	30	39	50
		NC (Noise Criteria)	-	15	22	27	32	36	39
		Throw, m	1.5 - 2.5 - 3.8	2.3 - 3 - 4.5	2.8 - 3.8 - 5	3 - 4 - 5.5	3.3 - 4.3 - 6	3.8 - 4.5 - 6.5	4 - 5 - 7

254 mm Inlet 1 Slot

19 mm Slot Width	600 mm Long	Air Flow, Liters/s	14	20	26	32	38	44	50
		Total Pressure, Pa	9	19	32	48	67	90	116
		Static Pressure, Pa	9	19	32	48	67	89	115
		NC (Noise Criteria)	-	11	18	24	29	33	36
		Throw, m	1.5 - 2.8 - 5.3	2.5 - 3.8 - 6.8	3 - 5 - 7.5	4 - 5.8 - 8.5	4.5 - 6.5 - 9.3	5.5 - 7 - 10	6 - 7.5 - 10.8
	1200 mm Long	Air Flow, Liters/s	24	34	45	55	66	77	87
		Total Pressure, Pa	5	11	18	28	39	53	68
		Static Pressure, Pa	5	10	17	26	37	50	65
		NC (Noise Criteria)	-	15	23	29	33	38	41
		Throw, m	1.8 - 2.5 - 4	2.5 - 3.3 - 5	3 - 4 - 5.5	3.8 - 4.3 - 6	4 - 4.5 - 6.8	4.3 - 5.3 - 7	4.3 - 5.5 - 7.5

300 mm Inlet 1 Slot

19 mm Slot Width	1200 mm Long	Air Flow, Liters/s	35	47	59	71	83	94	106
		Total Pressure, Pa	12	22	34	48	66	86	109
		Static Pressure, Pa	12	21	33	48	65	85	107
		NC (Noise Criteria)	-	18	24	29	34	37	41
		Throw, m	2.5 - 3.3 - 5	3.3 - 4 - 5.5	3.8 - 4.5 - 6.5	4 - 5 - 7	4.3 - 5.3 - 7.3	4.5 - 5.5 - 8	5 - 6 - 8.5

- Throw values are given for terminal velocities of .8, .50, and .3 m/s.
- Throw Values are given for Isothermal Conditions
- Each NC value represents the noise criteria curve which will not be exceeded by the sound pressure, in any of the octave bands, 2nd through 7th, with a room absorption of 10dB, re 10-12 Watts.
- Dash (-) in space denotes an NC value of less than 10.
- Data were obtained from test conducted in accordance with ANSI / ASHRAE Standard 70-1991.

Note: All dimensions are nominal • product will be built to the closest inch equivalent dimension unless specially ordered to true metric

• contact factory for availability of sizes •



**990 Security Row • Richardson, Texas 75081
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TBD-80 Performance Data

152 mm Inlet 1 Slot

25.4 mm Slot Width	600 mm Long	Air Flow, Liters/s	14	21	28	35	42	50	57
		Total Pressure, Pa	4	8	15	23	33	45	59
		Static Pressure, Pa	3	7	13	21	30	40	53
		NC (Noise Criteria)	-	11	19	25	30	34	38
		Throw, m	1 - 2.3 - 4.5	2.3 - 3.3 - 6.8	3 - 4.5 - 8	3.8 - 5.8 - 8.8	4.5 - 6.8 - 9.8	5.3 - 7.5 - 10.8	6 - 8 - 11.3
	1200 mm Long	Air Flow, Liters/s	24	34	45	55	66	77	87
		Total Pressure, Pa	4	9	15	23	33	45	58
		Static Pressure, Pa	3	7	11	17	25	33	43
		NC (Noise Criteria)	-	14	21	27	32	36	39
		Throw, m	1.3 - 2.3 - 4	2.3 - 3.3 - 5	2.8 - 4 - 5.5	3.3 - 4.3 - 6	4 - 4.5 - 6.8	4.3 - 5.3 - 7	4.3 - 5.5 - 7.5

203 mm Inlet 1 Slot

25.4 mm Slot Width	600 mm Long	Air Flow, Liters/s	19	28	38	47	57	66	76
		Total Pressure, Pa	7	17	30	47	67	92	120
		Static Pressure, Pa	7	16	29	45	65	88	116
		NC (Noise Criteria)	-	13	21	27	32	37	40
		Throw, m	1.5 - 3 - 6	3 - 4.5 - 8	4 - 6 - 9.3	5 - 7.3 - 10.3	6 - 8 - 11.3	7 - 8.5 - 12.3	7.5 - 9.3 - 13
	1200 mm Long	Air Flow, Liters/s	26	39	52	65	78	91	104
		Total Pressure, Pa	3	8	14	21	31	42	54
		Static Pressure, Pa	3	6	12	18	26	35	46
		NC (Noise Criteria)	-	11	19	25	30	35	38
		Throw, m	1.5 - 2.5 - 4.3	2.5 - 3.8 - 5.3	3.3 - 4.3 - 5.8	3.8 - 4.5 - 6.8	4.3 - 5.3 - 7.3	4.5 - 5.5 - 8	5 - 5.8 - 8.3

254 mm Inlet 1 Slot

25.4 mm Slot Width	600 mm Long	Air Flow, Liters/s	26	32	38	44	50	55	61
		Total Pressure, Pa	22	33	47	62	80	100	123
		Static Pressure, Pa	22	33	46	61	79	99	121
		NC (Noise Criteria)	-	13	17	21	25	28	31
		Throw, m	2.8 - 4.3 - 7.5	3.3 - 5.3 - 8.5	4 - 6 - 9.3	4.5 - 7 - 10	5.3 - 7.5 - 10.8	5.8 - 8 - 11.3	6.5 - 8.3 - 12
	1200 mm Long	Air Flow, Liters/s	28	45	61	78	94	111	127
		Total Pressure, Pa	4	9	17	28	41	56	74
		Static Pressure, Pa	3	8	16	25	37	51	67
		NC (Noise Criteria)	-	11	20	27	32	36	40
		Throw, m	1.8 - 2.8 - 4.3	2.8 - 4 - 5.5	3.8 - 4.5 - 6.5	4.3 - 5.3 - 7.3	4.5 - 5.5 - 8	5 - 6 - 8.5	5.3 - 6.5 - 9.3

300 mm Inlet 1 Slot

25.4 mm Slot Width	1200 mm Long	Air Flow, Liters/s	52	66	80	94	109	123	137
		Total Pressure, Pa	16	26	38	53	70	90	112
		Static Pressure, Pa	16	25	37	52	69	88	109
		NC (Noise Criteria)	-	16	21	26	30	33	36
		Throw, m	3.3 - 4.3 - 5.8	4 - 4.5 - 6.8	4.3 - 5.3 - 7.3	4.5 - 5.5 - 8	5 - 6 - 8.5	5.3 - 6.5 - 9.3	5.5 - 6.8 - 9.5

- Throw values are given for terminal velocities of .8, .50, and .3 m/s.
- Throw Values are given for Isothermal Conditions
- Each NC value represents the noise criteria curve which will not be exceeded by the sound pressure, in any of the octave bands, 2nd through 7th, with a room absorption of 10dB, re 10-12 Watts.
- Dash (-) in space denotes an NC value of less than 10.
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TBD-80 Performance Data

152 mm Inlet 1 Slot

38.1 mm Slot Width	600 mm Long	Air Flow, Liters/s	19	27	35	44	52	60	68
		Total Pressure, Pa	5	10	17	27	38	50	65
		Static Pressure, Pa	4	9	15	23	32	43	56
		NC (Noise Criteria)	-	17	24	30	35	39	42
		Throw, m	1 - 2.3 - 5	1.8 - 3.8 - 7	3 - 4.5 - 8.8	3.8 - 5.8 - 10	4.5 - 6.8 - 11	5.3 - 8 - 11.5	5.8 - 8.8 - 12.5
	1200 mm Long	Air Flow, Liters/s	28	39	50	60	71	81	92
		Total Pressure, Pa	5	10	16	24	33	43	55
		Static Pressure, Pa	4	7	11	16	23	30	38
		NC (Noise Criteria)	-	16	23	28	33	36	40
		Throw, m	1 - 2.3 - 4.3	1.8 - 3 - 5.3	2.5 - 3.8 - 6.8	3 - 4.5 - 6.5	3.8 - 5 - 7	4.3 - 5.3 - 7.3	4.5 - 5.5 - 8

203 mm Inlet 1 Slot

38.1 mm Slot Width	600 mm Long	Air Flow, Liters/s	24	33	42	52	61	71	80
		Total Pressure, Pa	8	15	25	37	51	68	87
		Static Pressure, Pa	7	14	23	35	48	64	83
		NC (Noise Criteria)	-	16	23	29	33	37	41
		Throw, m	1.5 - 3 - 6	2.8 - 4.3 - 8.5	3.8 - 5.5 - 9.8	4.5 - 6.8 - 11	5.3 - 8 - 12	6 - 8.8 - 12.8	7 - 9.5 - 13.5
	1200 mm Long	Air Flow, Liters/s	35	50	64	78	92	106	120
		Total Pressure, Pa	5	10	16	24	34	45	58
		Static Pressure, Pa	4	8	13	20	27	36	47
		NC (Noise Criteria)	-	17	24	29	34	38	41
		Throw, m	1.5 - 2.8 - 5	2.5 - 3.8 - 5.8	3.3 - 4.5 - 6.5	4 - 5.3 - 7.3	4.5 - 5.5 - 8	5 - 6 - 8.5	5.3 - 6.5 - 8.8

254 mm Inlet 1 Slot

38.1 mm Slot Width	600 mm Long	Air Flow, Liters/s	24	33	42	52	61	71	80
		Total Pressure, Pa	10	20	33	49	68	91	117
		Static Pressure, Pa	10	19	32	48	67	89	114
		NC (Noise Criteria)	-	12	19	25	29	33	37
		Throw, m	1.5 - 3 - 6	2.8 - 4.3 - 8.5	3.8 - 5.5 - 9.8	4.5 - 6.8 - 11	5.3 - 8 - 12	6 - 8.8 - 12.8	7 - 9.5 - 13.5
	1200 mm Long	Air Flow, Liters/s	42	57	71	85	99	113	127
		Total Pressure, Pa	6	11	17	24	33	43	54
		Static Pressure, Pa	5	9	15	21	29	38	48
		NC (Noise Criteria)	-	17	23	28	32	36	39
		Throw, m	2.3 - 3.3 - 5.3	3 - 4.3 - 6	3.8 - 5 - 7	4.3 - 5.3 - 7.5	4.5 - 5.8 - 8.3	5 - 6 - 8.5	5.3 - 6.5 - 9.3

300 mm Inlet 1 Slot

38.1 mm Slot Width	1200 mm Long	Air Flow, Liters/s	47	66	85	104	123	142	160
		Total Pressure, Pa	8	16	26	39	55	73	94
		Static Pressure, Pa	8	15	25	38	53	70	90
		NC (Noise Criteria)	-	15	22	27	32	36	39
		Throw, m	2.5 - 3.8 - 5.5	3.3 - 4.5 - 6.8	4.3 - 5.3 - 7.5	5 - 5.8 - 8.3	5.3 - 6.5 - 9.3	5.5 - 7 - 9.8	6 - 7.3 - 10.3

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