

Flowbar with Continuous Slot Plenum & HighThrow Pattern Controller

FL-10

25.4 mm Slot	1 Slot	Air Flow, l/s-m	36	58	79	101	122	144	165
		Static Pressure, Pa	7	18	34	55	81	112	148
		NC (Noise Criteria)	<10	16	26	33	39	44	49
		Throw, m	1.5 - 2.5 - 4.3	2.8 - 4 - 5.5	3.8 - 4.5 - 6.5	4.3 - 5.3 - 7.3	4.5 - 5.8 - 8.3	5.3 - 6 - 8.8	5.5 - 6.8 - 9.5
Width	2 Slots	Air Flow, l/s-m	24	35	47	59	71	83	94
		Static Pressure, Pa	7	16	28	44	63	86	112
		NC (Noise Criteria)	<10	17	26	33	39	44	48
		Throw, m	2.3 - 3.3 - 6	3.3 - 5.3 - 7.5	4.5 - 6 - 8.8	5.8 - 7 - 9.8	6 - 7.5 - 10.8	6.8 - 8.3 - 11.5	7 - 8.8 - 12.5

FL-15

38.1 mm Slot	1 Slot	Air Flow, l/s-m	43	65	86	108	129	151	173
		Static Pressure, Pa	8	18	32	51	73	99	129
		NC (Noise Criteria)	<10	14	24	31	37	42	48
		Throw, m	1.8 - 3 - 5	3 - 4.3 - 5.8	4 - 5 - 6.8	4.3 - 5.5 - 7.5	5 - 5.8 - 8.3	5.3 - 6.5 - 8.8	5.5 - 6.8 - 9.8
Width	2 Slots	Air Flow, l/s-m	86	122	158	194	230	266	302
		Static Pressure, Pa	8	16	27	41	57	77	99
		NC (Noise Criteria)	<10	16	24	31	36	41	45
		Throw, m	2.8 - 4.3 - 6.8	4 - 5.8 - 8.3	5.3 - 6.5 - 9.3	5.8 - 7.3 - 10	6.5 - 8 - 11	7 - 8.5 - 12	7.3 - 8.8 - 12.8

FL-20

50.8 mm Slot	1 Slot	Air Flow, l/s-m	43	72	101	129	158	187	216
		Static Pressure, Pa	5	14	28	46	68	95	127
		NC (Noise Criteria)	<10	11	22	30	36	41	46
		Throw, m	1.5 - 2.8 - 5	2.8 - 4.3 - 6	4 - 5.3 - 7.3	5 - 5.8 - 8.3	5.3 - 6.5 - 9.3	5.8 - 7 - 10	6 - 7.5 - 10.8
Width	2 Slots	Air Flow, l/s-m	86	137	187	237	288	338	388
		Static Pressure, Pa	5	13	24	38	56	78	103
		NC (Noise Criteria)	<10	12	22	30	36	41	46
		Throw, m	2.3 - 3.8 - 6.8	4 - 5.8 - 8.5	5.3 - 7 - 10	6.5 - 8 - 11.3	7 - 8.8 - 12.5	7.5 - 9.5 - 13.5	8.3 - 10 - 14.3

FL-25

63.5 mm Slot	1 Slot	Air Flow, l/s-m	43	79	115	151	187	223	259
		Static Pressure, Pa	3	10	22	38	58	82	110
		NC (Noise Criteria)	<10	11	23	31	38	43	48
		Throw, m	1.3 - 2.5 - 5	3 - 4.5 - 6.5	4.3 - 5.5 - 8	5.3 - 6.5 - 8.8	5.8 - 7 - 10	6.5 - 7.5 - 11	6.8 - 8.3 - 12
Width	2 Slots	Air Flow, l/s-m	86	151	216	281	345	410	475
		Static Pressure, Pa	3	9	19	32	49	69	93
		NC (Noise Criteria)	<10	13	24	32	38	44	48
		Throw, m	1.8 - 3.3 - 6.8	4 - 6 - 8.8	5.8 - 7.5 - 10.8	7 - 8.5 - 12.3	8 - 9.8 - 13.8	8.5 - 10.3 - 15	9.3 - 11.3 - 15.8

FL-30

76.2 mm Slot	1 Slot	Air Flow, l/s-m	43	86	129	173	216	259	302
		Static Pressure, Pa	3	11	25	44	69	99	135
		NC (Noise Criteria)	<10	<10	18	27	34	40	45
		Throw, m	1 - 2.3 - 4.5	3 - 4.5 - 6.8	4.5 - 5.8 - 8.3	5.5 - 6.8 - 9.8	6 - 7.5 - 10.8	6.8 - 8.3 - 12	7.3 - 8.8 - 12.8
Width	2 Slots	Air Flow, l/s-m	86	173	259	345	432	518	604
		Static Pressure, Pa	3	11	25	44	69	99	135
		NC (Noise Criteria)	<10	<10	21	30	37	43	48
		Throw, m	1.5 - 3 - 6.5	4.3 - 6.5 - 9.8	6.5 - 8.3 - 12	8 - 9.8 - 13.8	8.8 - 10.8 - 15.3	9.8 - 12 - 16.8	10.3 - 12.8 - 18

Table A, NC Correction for length

Length, mm	600	1225	1825	2450	3050
Supply	-3	0	+2	+3	+5
Return	0	+3	+5	+6	+8

Table B, Throw Correction Multiplier for length

Length, mm	600	1225	2450	3050	3650
Throw Correction	0.72	1	1.5	1.7	1.8

All pressures are given in Pascal

Pressure loss data assumes a duct velocity less than 4 mps in the inlet duct

Isothermal throw values are given for terminal velocities of .8, .5, and .3 mps.

Throw data are based on active sections 1225mm active section. For a 600 mm section, the throw

values are 0.72 times those shown. For a 3050 mm continuous length, the throw values are 1.7 times those shown, 1.8 for 3650 mm units.

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, for a 1225 mm section. (See Table A for other lengths.) For supply units used as a return, add 3 NC.

Data was obtained from test conducted in accordance with ANSI / ASHRAE Standard 70-1991, " Method of Testing for Rating the Performance of Air Outlets and Inlets."

The tests were conducted with no Plenum effect for pressure or sound.

Throw values for HighThrow units are based on a 1-way discharge from the slot.

Throws listed are for the 1-way air pattern. For divide airflow, select the airflow in each direction

according to the number of slots aimed in that direction, with the total airflow apportioned between slots.

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 •



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1 - Slot, High Throw with TITUS Plenum

FL-10 with 150 mm inlet

25.4 mm Slot Width	Length 600 mm	Air Flow, l/s	12	24	35	47	59	71	83
		Total Pressure, Pa	2	8	18	32	50	72	98
		Static Pressure, Pa	2	7	16	28	44	63	86
		NC (Noise Criteria)	< 10	< 10	< 10	20	28	35	40
		Throw, m	0.3 - 0.5 - 1.8	1 - 1.8 - 3	1.8 - 2.8 - 3.8	2.5 - 3 - 4.3	2.8 - 3.3 - 5	3 - 3.8 - 5.5	3.3 - 4 - 5.8
	Length 1225 mm	Air Flow, l/s	19	38	57	76	94	113	132
		Total Pressure, Pa	2	7	16	28	44	64	87
		Static Pressure, Pa	1	4	10	18	28	40	55
		NC (Noise Criteria)	< 10	< 10	< 10	16	24	31	37
		Throw, m	0.3 - 0.5 - 1.8	1 - 1.8 - 4	1.8 - 3 - 5	2.8 - 4 - 5.5	3.3 - 4.3 - 6	4 - 5 - 6.8	4.3 - 5.3 - 7.3
	Length 1525 mm	Air Flow, l/s	24	47	71	94	118	142	165
		Total Pressure, Pa	2	9	19	34	53	77	104
		Static Pressure, Pa	1	4	10	18	28	40	55
		NC (Noise Criteria)	< 10	< 10	< 10	18	26	33	38
		Throw, m	0.3 - 0.5 - 2.3	1 - 2.3 - 4.3	2.3 - 3.3 - 5.5	3 - 4.3 - 6	3.8 - 5 - 7	4.3 - 5.5 - 7.5	5 - 5.8 - 8.3

FL-15 with 150 mm inlet

38.1 mm Slot Width	Length 600 mm	Air Flow, l/s	19	33	47	61	76	90	104
		Total Pressure, Pa	4	13	26	45	68	96	128
		Static Pressure, Pa	4	11	22	38	57	81	109
		NC (Noise Criteria)	< 10	< 10	16	25	33	40	46
		Throw, m	0.5 - 1.5 - 2.8	1.5 - 2.5 - 3.8	2.5 - 3 - 4.3	2.8 - 3.8 - 5	3.3 - 4 - 5.5	3.3 - 4.3 - 6	3.8 - 4.5 - 6.5
	Length 1225 mm	Air Flow, l/s	38	57	76	94	113	132	151
		Total Pressure, Pa	6	14	25	39	56	76	99
		Static Pressure, Pa	4	8	14	22	32	44	57
		NC (Noise Criteria)	< 10	< 10	12	20	27	33	38
		Throw, m	1 - 1.8 - 4	1.8 - 3 - 5	2.8 - 4 - 5.5	3.3 - 4.3 - 6	4 - 5 - 6.8	4.3 - 5.3 - 7.3	4.5 - 5.5 - 8
	Length 1525 mm	Air Flow, l/s	42	66	90	113	137	160	184
		Total Pressure, Pa	6	15	28	44	64	88	116
		Static Pressure, Pa	3	7	13	21	30	42	55
		NC (Noise Criteria)	< 10	< 10	12	20	27	33	39
		Throw, m	1 - 1.8 - 4	1.8 - 3 - 5.3	2.8 - 4.3 - 6	3.3 - 5 - 6.8	4.3 - 5.3 - 7.3	4.5 - 5.8 - 8.3	5 - 6 - 8.5

FL-20 with 200 mm inlet

50.8 mm Slot Width	Length 600 mm	Air Flow, l/s	24	40	57	73	90	106	123
		Total Pressure, Pa	4	11	22	37	56	78	104
		Static Pressure, Pa	4	10	20	34	51	71	95
		NC (Noise Criteria)	< 10	< 10	12	21	28	35	40
		Throw, m	0.5 - 1.5 - 3	1.8 - 2.8 - 4	2.5 - 3.3 - 5	3 - 4 - 5.5	3.3 - 4.3 - 6	3.8 - 4.5 - 6.8	4 - 5 - 7
	Length 1225 mm	Air Flow, l/s	42	71	99	127	156	184	212
		Total Pressure, Pa	4	11	21	35	52	73	97
		Static Pressure, Pa	3	8	16	26	38	54	71
		NC (Noise Criteria)	< 10	< 10	20	29	36	42	48
		Throw, m	1 - 1.8 - 4	2.3 - 3.3 - 5.5	3 - 4.5 - 6.5	4 - 5.3 - 7.3	4.5 - 5.5 - 8	5 - 6 - 8.5	5.5 - 6.8 - 9.5
	Length 1525 mm	Air Flow, l/s	47	78	109	139	170	201	231
		Total Pressure, Pa	4	10	19	31	46	64	85
		Static Pressure, Pa	2	6	12	20	29	41	54
		NC (Noise Criteria)	< 10	< 10	19	28	36	42	47
		Throw, m	0.5 - 1.5 - 4	1.8 - 3 - 5.5	3 - 4.5 - 6.8	4 - 5.3 - 7.5	4.5 - 5.8 - 8.3	5.3 - 6.5 - 9.3	5.5 - 7 - 9.8

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 •



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1-Slot, HighThrow with TITUS Plenum

FL-10 with 200 mm inlet

25.4 mm Slot Width	Length 600 mm	Air Flow, l/s	24	35	47	59	71	83	94
		Total Pressure, Pa	7	16	29	46	66	90	117
		Static Pressure, Pa	7	16	28	44	63	86	112
		NC (Noise Criteria)	< 10	< 10	19	27	34	40	44
		Throw, m	1 - 1.8 - 3	1.8 - 2.8 - 3.8	2.5 - 3 - 4.3	2.8 - 3.3 - 5	3 - 3.8 - 5.5	3.3 - 4 - 5.8	3.8 - 4.3 - 6
	Length 1225 mm	Air Flow, l/s	33	52	71	90	109	127	146
		Total Pressure, Pa	4	10	19	30	44	60	80
		Static Pressure, Pa	3	8	16	25	37	51	67
		NC (Noise Criteria)	< 10	< 10	13	22	29	35	40
		Throw, m	0.5 - 1.5 - 3.3	1.8 - 2.8 - 4.5	2.5 - 3.8 - 5.5	3 - 4.3 - 6	3.8 - 4.5 - 6.8	4.3 - 5.3 - 7.3	4.5 - 5.5 - 7.5
	Length 1525 mm	Air Flow, l/s	38	61	85	109	132	156	179
		Total Pressure, Pa	4	10	19	30	45	63	83
		Static Pressure, Pa	3	8	15	24	35	49	65
		NC (Noise Criteria)	< 10	< 10	13	22	29	35	40
		Throw, m	0.5 - 1.5 - 3.8	1.8 - 2.8 - 5	2.8 - 4 - 5.8	3.3 - 4.5 - 6.8	4.3 - 5.3 - 7.3	4.5 - 5.5 - 8	5 - 6 - 8.5

FL-15 with 200 mm inlet

38.1 mm Slot Width	Length 600 mm	Air Flow, l/s	19	33	47	61	76	90	104
		Total Pressure, Pa	4	12	24	40	61	86	115
		Static Pressure, Pa	4	11	22	38	57	81	109
		NC (Noise Criteria)	< 10	< 10	14	24	32	38	45
		Throw, m	0.5 - 1.5 - 2.8	1.5 - 2.5 - 3.8	2.5 - 3 - 4.3	2.8 - 3.8 - 5	3.3 - 4 - 5.5	3.3 - 4.3 - 6	3.8 - 4.5 - 6.5
	Length 1225 mm	Air Flow, l/s	38	61	85	109	132	156	179
		Total Pressure, Pa	4	12	22	36	54	75	99
		Static Pressure, Pa	4	9	18	30	44	61	81
		NC (Noise Criteria)	< 10	< 10	15	24	32	38	43
		Throw, m	1 - 1.8 - 4	2.3 - 3 - 5	3 - 4.3 - 5.8	3.8 - 4.5 - 6.8	4.3 - 5.3 - 7.3	4.5 - 5.5 - 8	5 - 6 - 8.5
	Length 1525 mm	Air Flow, l/s	42	71	99	127	156	184	212
		Total Pressure, Pa	4	11	21	35	53	74	99
		Static Pressure, Pa	3	8	16	26	39	55	73
		NC (Noise Criteria)	< 10	< 10	14	24	31	37	43
		Throw, m	1 - 1.8 - 4	2.3 - 3.3 - 5.5	3 - 4.5 - 6.5	4 - 5.3 - 7.3	4.5 - 5.5 - 8	5 - 6 - 8.5	5.5 - 6.8 - 9.5

FL-20 with 300 mm inlet

50.8 mm Slot Width	Length 600 mm	Air Flow, l/s	24	42	61	80	99	118	137
		Total Pressure, Pa	4	12	24	41	63	90	121
		Static Pressure, Pa	4	11	24	41	62	88	119
		NC (Noise Criteria)	< 10	< 10	< 10	13	20	27	32
		Throw, m	0.5 - 1.5 - 3	1.8 - 2.8 - 4.3	2.8 - 3.8 - 5	3.3 - 4 - 5.8	3.8 - 4.5 - 6.5	4 - 5 - 7	4.3 - 5.3 - 7.3
	Length 1225 mm	Air Flow, l/s	42	78	113	149	184	219	255
		Total Pressure, Pa	3	10	22	37	57	82	110
		Static Pressure, Pa	3	10	20	35	54	76	103
		NC (Noise Criteria)	< 10	< 10	13	23	31	37	43
		Throw, m	1 - 1.8 - 4	2.5 - 3.8 - 5.5	3.3 - 5 - 6.8	4.5 - 5.5 - 8	5 - 6 - 8.5	5.5 - 6.8 - 9.5	5.8 - 7.3 - 10
	Length 1525 mm	Air Flow, l/s	47	90	132	175	217	260	302
		Total Pressure, Pa	3	9	20	34	53	76	103
		Static Pressure, Pa	2	8	18	31	48	68	92
		NC (Noise Criteria)	< 10	< 10	15	25	33	39	45
		Throw, m	0.5 - 1.5 - 4	2.5 - 3.8 - 6	3.8 - 5.3 - 7.3	5 - 6 - 8.5	5.5 - 6.8 - 9.5	5.8 - 7.3 - 10.3	6.5 - 8 - 11

Note: All dimensions are nominal • product will be built to the closest inch equivalent dimension unless specially ordered to true metric
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1- Slot, HighThrow with TITUS Plenum

FL-25 with 250 mm inlet

63.5 mm Slot Width	Length 600 mm	Air Flow, l/s	47	68	90	111	132	153	175
		Total Pressure, Pa	9	19	33	50	71	96	124
		Static Pressure, Pa	9	18	31	47	67	90	117
		NC (Noise Criteria)	< 10	< 10	17	26	33	39	44
		Throw, m	1.8 - 3 - 4.3	2.8 - 3.8 - 5.3	3.3 - 4.3 - 6	4 - 5 - 6.8	4.3 - 5.3 - 7.3	4.5 - 5.5 - 8	5 - 6 - 8.5
	Length 1225 mm	Air Flow, l/s	66	104	142	179	217	255	293
		Total Pressure, Pa	5	13	24	38	56	77	102
		Static Pressure, Pa	4	10	19	31	45	62	82
		NC (Noise Criteria)	< 10	< 10	20	29	37	44	49
		Throw, m	1.5 - 2.8 - 5.3	3 - 4.5 - 6.5	4.3 - 5.5 - 7.5	5 - 6 - 8.5	5.5 - 6.8 - 9.5	5.8 - 7.3 - 10	6.5 - 7.5 - 11
	Length 1525 mm	Air Flow, l/s	71	113	156	198	241	283	326
		Total Pressure, Pa	4	11	21	33	49	68	90
Static Pressure, Pa		3	8	15	24	35	49	65	
NC (Noise Criteria)		< 10	< 10	18	28	36	43	49	
Throw, m		1.3 - 2.8 - 5.5	3 - 4.5 - 6.8	4 - 5.5 - 8	5.3 - 6.5 - 8.8	5.8 - 7 - 9.8	6 - 7.5 - 10.8	6.8 - 8.3 - 11.5	

FL-30 with 250 mm inlet

76.2 mm Slot Width	Length 600 mm	Air Flow, l/s	59	80	101	123	144	165	186
		Total Pressure, Pa	13	24	38	55	76	100	128
		Static Pressure, Pa	12	22	35	52	71	94	119
		NC (Noise Criteria)	< 10	< 10	15	23	30	36	41
		Throw, m	2.3 - 3.3 - 5	3 - 4 - 5.8	3.8 - 4.5 - 6.5	4 - 5 - 7	4.5 - 5.5 - 7.5	5 - 5.8 - 8.3	5.3 - 6 - 8.8
	Length 1225 mm	Air Flow, l/s	94	130	165	201	236	271	307
		Total Pressure, Pa	10	18	30	44	61	81	103
		Static Pressure, Pa	8	14	23	35	48	63	81
		NC (Noise Criteria)	< 10	< 10	17	25	32	39	44
		Throw, m	2.5 - 4 - 6	3.8 - 5.3 - 7.3	4.5 - 5.8 - 8.3	5.3 - 6.5 - 9.3	5.8 - 7 - 9.8	6 - 7.3 - 10.3	6.5 - 8 - 11.3
	Length 1525 mm	Air Flow, l/s	104	146	189	231	274	316	359
		Total Pressure, Pa	8	17	28	42	59	78	101
		Static Pressure, Pa	6	12	20	29	41	55	71
		NC (Noise Criteria)	< 10	< 10	17	25	33	40	46
		Throw, m	2.5 - 3.8 - 6.5	3.8 - 5.3 - 7.5	4.5 - 6 - 8.8	5.5 - 7 - 9.8	6 - 7.3 - 10.8	6.5 - 8 - 11.3	7 - 8.5 - 12.3

- All pressures are given in Pascal
- Isothermal throw values are given for terminal velocities of .8, .5, and .3 mps.
- 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.
- Data was obtained from test conducted in accordance with ANSI / ASHRAE Standard 70-1991. " Method of Testing for Rating the Performance of Air Outlets and Inlets."
- The tests were conducted with the FlowBar and plenums as a composite assembly.
- Plenums not provided by TITUS may demonstrate performance variations from data published by TITUS. TITUS cannot guarantee performance if a factory engineered plenum is not provided.
- Throw values for HighThrow units are based on a 1-way discharge from the slot.
- Throws listed are for the 1-way air pattern. For divide airflow, select the airflow in each direction according to the number of slots aimed in that direction, with the total airflow apportioned between slots.

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 •



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1- Slot, HighThrow with TITUS Plenum

FL-25 with 300 mm inlet

63.5 mm Slot Width	Length 600 mm	Air Flow, l/s	47	68	90	111	132	153	175
		Total Pressure, Pa	9	18	32	48	69	93	120
		Static Pressure, Pa	9	18	31	47	67	90	117
		NC (Noise Criteria)	< 10	< 10	12	21	28	34	40
		Throw, m	1.8 - 3 - 4.3	2.8 - 3.8 - 5.3	3.3 - 4.3 - 6	4 - 5 - 6.8	4.3 - 5.3 - 7.3	4.5 - 5.5 - 8	5 - 6 - 8.5
	Length 1225 mm	Air Flow, l/s	66	106	146	186	227	267	307
		Total Pressure, Pa	5	12	23	37	55	76	101
		Static Pressure, Pa	4	11	20	33	49	68	90
		NC (Noise Criteria)	< 10	< 10	16	26	34	41	46
		Throw, m	1.5 - 2.8 - 5.3	3 - 4.5 - 6.8	4.3 - 5.5 - 7.5	5.3 - 6 - 8.8	5.5 - 6.8 - 9.8	6 - 7.3 - 10.3	6.5 - 8 - 11.3
	Length 1525 mm	Air Flow, l/s	71	118	165	212	260	307	354
		Total Pressure, Pa	4	10	20	33	49	68	91
		Static Pressure, Pa	3	9	17	28	41	58	77
		NC (Noise Criteria)	< 10	< 10	16	26	34	41	47
		Throw, m	1.3 - 2.8 - 5.5	3 - 4.5 - 7	4.3 - 5.8 - 8.3	5.5 - 6.8 - 9.5	5.8 - 7.3 - 10.3	6.5 - 8 - 11.3	7 - 8.5 - 12

FL-30 with 300 mm inlet

76.2 mm Slot Width	Length 600 mm	Air Flow, l/s	59	80	101	123	144	165	186
		Total Pressure, Pa	12	23	37	53	74	97	123
		Static Pressure, Pa	12	22	35	52	71	94	119
		NC (Noise Criteria)	< 10	< 10	11	19	26	32	37
		Throw, m	2.3 - 3.3 - 5	3 - 4 - 5.8	3.8 - 4.5 - 6.5	4 - 5 - 7	4.5 - 5.5 - 7.5	5 - 5.8 - 8.3	5.3 - 6 - 8.8
	Length 1225 mm	Air Flow, l/s	94	137	179	222	264	307	349
		Total Pressure, Pa	9	18	31	48	68	92	119
		Static Pressure, Pa	8	16	28	42	60	81	105
		NC (Noise Criteria)	< 10	< 10	16	26	33	40	45
		Throw, m	2.5 - 4 - 6	3.8 - 5.3 - 7.3	5 - 6 - 8.5	5.5 - 6.8 - 9.5	6 - 7.3 - 10.3	6.5 - 8 - 11.3	7 - 8.5 - 12
	Length 1525 mm	Air Flow, l/s	104	156	208	260	311	363	415
		Total Pressure, Pa	7	16	29	45	64	88	114
		Static Pressure, Pa	6	13	24	37	53	73	95
		NC (Noise Criteria)	< 10	< 10	17	26	34	41	47
		Throw, m	2.5 - 3.8 - 6.5	3.8 - 5.5 - 8	5 - 6.5 - 9.3	5.8 - 7.3 - 10.3	6.5 - 8 - 11.3	7 - 8.5 - 12.3	7.5 - 9.3 - 13

- All pressures are given in Pascal
- Isothermal throw values are given for terminal velocities of .8, .5, and .3 mps.
- 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.
- Data was obtained from test conducted in accordance with ANSI / ASHRAE Standard 70-1991.
" Method of Testing for Rating the Performance of Air Outlets and Inlets."
- The tests were conducted with the FlowBar and plenums as a composite assembly.
- Plenums not provided by TITUS may demonstrate performance variations from data published by TITUS.
TITUS cannot guarantee performance if a factory engineered plenum is not provided.
- Throw values for HighThrow units are based on a 1-way discharge from the slot.
- Throws listed are for the 1-way air pattern. For divide airflow, select the airflow in each direction according to the number of slots aimed in that direction, with the total airflow apportioned between slots.

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2- Slot, High Throw with TITUS Plenum

FL-10 with 200 mm inlet

25.4 mm Slot Width	Length 600 mm	Air Flow, l/s	38	57	76	94	113	132	151
		Total Pressure, Pa	5	12	21	33	48	65	85
		Static Pressure, Pa	4	10	18	28	40	55	72
		NC (Noise Criteria)	< 10	< 10	15	24	30	36	41
		Throw, m	1 - 1.8 - 4	1.8 - 3 - 5	2.8 - 4 - 5.5	3.3 - 4.3 - 6	4 - 5 - 6.8	4.3 - 5.3 - 7.3	4.5 - 5.5 - 8
	Length 1225 mm	Air Flow, l/s	76	109	142	175	208	241	274
		Total Pressure, Pa	8	16	27	41	59	79	102
		Static Pressure, Pa	4	9	16	24	34	46	59
		NC (Noise Criteria)	< 10	< 10	18	25	32	37	42
		Throw, m	1.3 - 2.8 - 5.5	2.8 - 4 - 6.8	3.3 - 5.3 - 7.5	4.3 - 6 - 8.5	5.3 - 6.5 - 9.3	5.8 - 7 - 9.8	6 - 7.3 - 10.8
	Length 1525 mm	Air Flow, l/s	94	132	170	208	245	283	321
		Total Pressure, Pa	10	19	31	46	65	86	111
		Static Pressure, Pa	4	9	15	22	30	40	52
		NC (Noise Criteria)	< 10	< 10	18	25	31	36	41
		Throw, m	1.5 - 3 - 6	2.8 - 4.3 - 7.3	3.8 - 5.5 - 8.3	4.5 - 6.5 - 9.3	5.5 - 7 - 10	6 - 7.5 - 10.8	6.8 - 8.3 - 11.5

FL-15 with 200 mm inlet

38.1 mm Slot Width	Length 600 mm	Air Flow, l/s	57	76	94	113	132	151	170
		Total Pressure, Pa	10	18	28	40	54	71	89
		Static Pressure, Pa	8	14	22	32	44	57	73
		NC (Noise Criteria)	< 10	11	19	26	32	37	41
		Throw, m	1.8 - 3 - 5	2.8 - 4 - 5.5	3.3 - 4.3 - 6	4 - 5 - 6.8	4.3 - 5.3 - 7.3	4.5 - 5.5 - 8	5 - 5.8 - 8.3
	Length 1225 mm	Air Flow, l/s	113	146	179	212	245	278	311
		Total Pressure, Pa	15	26	39	54	72	93	117
		Static Pressure, Pa	8	13	20	28	38	49	61
		NC (Noise Criteria)	< 10	15	22	28	34	38	43
		Throw, m	2.8 - 4.3 - 6.8	3.8 - 5.5 - 7.5	4.3 - 6 - 8.5	5.3 - 6.8 - 9.5	5.8 - 7 - 10	6 - 7.5 - 10.8	6.5 - 8 - 11.3
	Length 1525 mm	Air Flow, l/s	142	175	208	241	274	307	340
		Total Pressure, Pa	20	30	42	57	73	92	113
		Static Pressure, Pa	8	12	17	23	30	38	47
		NC (Noise Criteria)	< 10	14	21	26	31	35	39
		Throw, m	3 - 4.5 - 7.5	4 - 5.8 - 8.5	4.5 - 6.5 - 9.3	5.3 - 7 - 9.8	6 - 7.3 - 10.8	6.5 - 8 - 11.3	6.8 - 8.3 - 12

FL-20 with 200 mm inlet

50.8 mm Slot Width	Length 600 mm	Air Flow, l/s	57	78	99	120	142	163	184
		Total Pressure, Pa	7	13	21	31	43	57	73
		Static Pressure, Pa	5	10	16	23	32	42	54
		NC (Noise Criteria)	< 10	11	20	27	33	38	42
		Throw, m	1.5 - 2.8 - 5	2.5 - 3.8 - 5.5	3 - 4.5 - 6.5	3.8 - 5 - 7	4.3 - 5.5 - 7.5	4.5 - 5.8 - 8.3	5 - 6 - 8.5
	Length 1225 mm	Air Flow, l/s	113	142	170	198	227	255	283
		Total Pressure, Pa	12	19	28	38	50	63	78
		Static Pressure, Pa	5	8	11	16	20	26	32
		NC (Noise Criteria)	12	21	27	33	38	43	47
		Throw, m	2.3 - 3.8 - 6.8	3 - 4.5 - 7.5	3.8 - 5.5 - 8.3	4.3 - 6.5 - 8.8	5 - 6.8 - 9.8	5.5 - 7.3 - 10	6 - 7.5 - 10.8
	Length 1525 mm	Air Flow, l/s	123	153	184	215	245	276	307
		Total Pressure, Pa	12	19	28	38	50	63	78
		Static Pressure, Pa	4	6	9	12	15	19	24
		NC (Noise Criteria)	11	20	26	32	37	42	46
		Throw, m	1.8 - 3.8 - 7	2.8 - 4.5 - 8	3.8 - 5.5 - 8.5	4.3 - 6 - 9.5	5 - 7 - 10	5.5 - 7.5 - 10.8	5.8 - 8 - 11.3

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 •



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2- Slot, High Throw with TITUS Plenum

FL-10 with 250 mm inlet

25.4 mm Slot Width	Length 600 mm	Air Flow, l/s	38	61	85	109	132	156	179
		Total Pressure, Pa	5	13	24	40	59	82	109
		Static Pressure, Pa	4	12	23	37	55	76	101
		NC (Noise Criteria)	< 10	< 10	19	28	35	41	47
		Throw, m	1 - 1.8 - 4	2.3 - 3.3 - 5	3 - 4.3 - 5.8	3.8 - 4.5 - 6.8	4.3 - 5.3 - 7.3	4.5 - 5.5 - 8	5 - 6 - 8.5
	Length 1225 mm	Air Flow, l/s	76	113	151	189	227	264	302
		Total Pressure, Pa	6	13	23	36	52	71	93
		Static Pressure, Pa	4	10	18	28	40	55	72
		NC (Noise Criteria)	< 10	< 10	19	27	34	40	45
		Throw, m	1.3 - 2.8 - 5.5	2.8 - 4.3 - 6.8	3.8 - 5.5 - 8	4.5 - 6 - 8.8	5.5 - 6.8 - 9.8	6 - 7.3 - 10.3	6.5 - 8 - 11
	Length 1525 mm	Air Flow, l/s	94	139	184	229	274	319	363
		Total Pressure, Pa	7	14	25	39	55	75	97
		Static Pressure, Pa	4	10	17	26	38	51	66
		NC (Noise Criteria)	< 10	< 10	20	28	34	40	45
		Throw, m	1.5 - 3 - 6	3 - 4.5 - 7.5	4 - 6 - 8.5	5.3 - 6.8 - 9.8	6 - 7.3 - 10.8	6.8 - 8 - 11.3	7 - 8.5 - 12.3

FL-15 with 300 mm inlet

38.1 mm Slot Width	Length 600 mm	Air Flow, l/s	57	80	104	127	151	175	198
		Total Pressure, Pa	8	17	28	43	60	80	103
		Static Pressure, Pa	8	16	27	41	57	77	99
		NC (Noise Criteria)	< 10	11	21	29	35	40	45
		Throw, m	1.8 - 3 - 5	2.8 - 4 - 5.8	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 - 8.8
	Length 1225 mm	Air Flow, l/s	113	151	189	227	264	302	340
		Total Pressure, Pa	10	17	26	38	52	68	86
		Static Pressure, Pa	8	14	22	32	44	57	73
		NC (Noise Criteria)	< 10	14	22	29	35	40	44
		Throw, m	2.8 - 4.3 - 6.8	3.8 - 5.5 - 8	4.5 - 6 - 8.8	5.5 - 6.8 - 9.8	6 - 7.3 - 10.3	6.5 - 8 - 11	6.8 - 8.3 - 12
	Length 1525 mm	Air Flow, l/s	142	189	236	283	330	378	425
		Total Pressure, Pa	10	18	29	41	56	74	93
		Static Pressure, Pa	8	14	22	32	44	57	73
		NC (Noise Criteria)	< 10	15	24	31	36	41	46
		Throw, m	3 - 4.5 - 7.5	4.3 - 6 - 8.8	5.3 - 7 - 9.8	6 - 7.5 - 10.8	6.8 - 8.3 - 11.5	7 - 8.8 - 12.5	7.5 - 9.5 - 13

FL-20 with 300 mm inlet

50.8 mm Slot Width	Length 600 mm	Air Flow, l/s	57	92	127	163	198	234	269
		Total Pressure, Pa	5	14	28	45	67	93	123
		Static Pressure, Pa	5	13	26	42	62	86	115
		NC (Noise Criteria)	< 10	< 10	17	26	33	39	45
		Throw, m	1.5 - 2.8 - 5	2.8 - 4.3 - 6	4 - 5.3 - 7.3	4.5 - 5.8 - 8.3	5.3 - 6.5 - 8.8	5.5 - 7 - 9.8	6 - 7.3 - 10.3
	Length 1225 mm	Air Flow, l/s	113	156	198	241	283	326	368
		Total Pressure, Pa	7	12	20	29	41	54	69
		Static Pressure, Pa	5	10	16	23	32	42	54
		NC (Noise Criteria)	< 10	12	21	28	34	39	44
		Throw, m	2.3 - 3.8 - 6.8	3.3 - 5.3 - 8	4.3 - 6.5 - 8.8	5.3 - 7 - 9.8	6 - 7.5 - 10.8	6.8 - 8.3 - 11.5	7 - 8.5 - 12.3
	Length 1525 mm	Air Flow, l/s	132	179	227	274	321	368	415
		Total Pressure, Pa	6	12	19	27	38	50	63
		Static Pressure, Pa	4	8	13	19	26	34	44
		NC (Noise Criteria)	< 10	14	22	29	35	40	45
		Throw, m	1.8 - 4 - 7.3	3.3 - 5.3 - 8.5	4.3 - 6.8 - 9.8	5.3 - 7.3 - 10.8	6 - 8.3 - 11.5	7 - 8.5 - 12.3	7.5 - 9.3 - 13

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 •



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2- Slot, High Throw with TITUS Plenum

FL-25 with 250 mm Inlet

63.5 mm Slot Width	Length 600 mm	Air Flow, l/s	38	76	113	151	189	227	264
		Total Pressure, Pa	2	7	15	27	42	61	83
		Static Pressure, Pa	1	5	12	22	34	49	67
		NC (Noise Criteria)	< 10	< 10	11	22	31	39	45
	Throw, m	0.5 - 1.3 - 3.3	2.3 - 3.3 - 5.5	3.3 - 5 - 6.8	4.3 - 5.5 - 8	5.3 - 6 - 8.8	5.5 - 6.8 - 9.8	6 - 7.3 - 10.3	
	Length 1225 mm	Air Flow, l/s	76	132	189	245	302	359	415
		Total Pressure, Pa	3	8	17	29	43	61	82
		Static Pressure, Pa	1	4	9	14	22	31	41
		NC (Noise Criteria)	< 10	< 10	15	26	35	42	48
	Throw, m	1 - 1.8 - 4.5	2.5 - 4 - 7.3	4 - 5.8 - 8.8	5.3 - 7 - 10	6 - 8 - 11	7 - 8.5 - 12.3	7.5 - 9.3 - 13	
	Length 1525 mm	Air Flow, l/s	94	158	222	286	349	413	477
		Total Pressure, Pa	3	10	19	32	47	66	88
Static Pressure, Pa		1	4	8	12	19	26	35	
NC (Noise Criteria)		< 10	< 10	17	27	35	42	48	
Throw, m	1 - 1.8 - 5.3	2.5 - 4.3 - 8	4 - 6 - 9.5	5.3 - 7.5 - 10.8	6.5 - 8.5 - 12	7.5 - 9.3 - 13	8 - 9.8 - 14		

FL-30 with 250 mm Inlet

76.2 mm Slot Width	Length 600 mm	Air Flow, l/s	38	85	132	179	227	274	321
		Total Pressure, Pa	2	8	19	35	56	82	113
		Static Pressure, Pa	1	6	15	28	44	64	89
		NC (Noise Criteria)	< 10	< 10	< 10	20	31	39	46
	Throw, m	0.3 - 1 - 3	2.3 - 3.3 - 5.8	3.8 - 5.3 - 7.3	5 - 6 - 8.5	5.5 - 6.8 - 9.8	6 - 7.3 - 10.8	6.8 - 8.3 - 11.5	
	Length 1225 mm	Air Flow, l/s	71	142	212	283	354	425	496
		Total Pressure, Pa	2	9	20	36	56	81	110
		Static Pressure, Pa	1	4	10	17	27	39	53
		NC (Noise Criteria)	< 10	< 10	< 10	22	32	41	48
	Throw, m	0.5 - 1.3 - 4	2.3 - 4 - 7.5	4 - 6 - 9.5	5.5 - 7.5 - 10.8	6.8 - 8.5 - 12	7.5 - 9.5 - 13	8.3 - 10 - 14.3	
	Length 1525 mm	Air Flow, l/s	85	165	245	326	406	486	566
		Total Pressure, Pa	3	10	22	39	61	88	119
Static Pressure, Pa		1	4	8	15	23	32	44	
NC (Noise Criteria)		< 10	< 10	10	23	33	41	48	
Throw, m	0.5 - 1.3 - 4.3	2.3 - 4.3 - 8.3	4.3 - 6.5 - 10	5.5 - 8.3 - 11.5	7 - 9.3 - 12.8	8.3 - 10 - 14	8.8 - 10.8 - 15.3		

- All pressures are given in Pascal
- Isothermal throw values are given for terminal velocities of .8, .5, and .3 mps.
- Each NC value represents the noise criteria curve which will not be exceeded by the sound pressure level of the octave bands, 2nd through 7th, with a room absorption of 10dB, re 10⁻¹² Watts.
- Data was obtained from test conducted in accordance with ANSI / ASHRAE Standard 70-1991. " Method of Testing for Rating the Performance of Air Outlets and Inlets."
- The tests were conducted with the FlowBar and plenums as a composite assembly.
- Plenums not provided by TITUS may demonstrate performance variations from data published by TITUS cannot guarantee performance if a factory engineered plenum is not provided.
- Throw values for HighThrow units are based on a 1-way discharge from the slot.
- Throws listed are for the 1-way air pattern. For divide airflow, select the airflow in each direction according to the number of slots aimed in that direction, with the total airflow apportioned accordingly.

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2-Slot, HighThrow with TITUS Plenum

FL-25 with 300 mm inlet

63.5 mm Slot Width	Length 600 mm	Air Flow, l/s	38	80	123	165	208	250	293
		Total Pressure, Pa	2	7	16	29	46	67	92
		Static Pressure, Pa	1	6	14	26	41	60	82
		NC (Noise Criteria)	<10	<10	<10	21	31	38	45
		Throw, m	0.5 - 1.3 - 3.3	2.5 - 3.3 - 5.8	3.8 - 5 - 7	5 - 5.8 - 8.3	5.3 - 6.5 - 9.3	5.8 - 7 - 10	6.5 - 7.5 - 11
	Length 1225 mm	Air Flow, l/s	76	139	203	267	330	394	458
		Total Pressure, Pa	2	7	15	25	38	55	74
		Static Pressure, Pa	1	5	10	17	26	37	50
		NC (Noise Criteria)	<10	<10	13	25	33	41	47
		Throw, m	1 - 1.8 - 4.5	2.8 - 4.3 - 7.5	4.3 - 6.5 - 9.3	5.5 - 7.3 - 10.3	6.8 - 8.3 - 11.5	7.3 - 8.8 - 12.8	8 - 9.8 - 13.8
	Length 1525 mm	Air Flow, l/s	94	165	236	307	378	448	519
		Total Pressure, Pa	2	7	15	25	38	54	72
		Static Pressure, Pa	1	4	9	14	22	31	41
		NC (Noise Criteria)	<10	<10	14	25	34	41	47
		Throw, m	1 - 1.8 - 5.3	2.8 - 4.5 - 8.3	4.3 - 6.5 - 9.8	5.8 - 8 - 11.3	7 - 8.8 - 12.5	8 - 9.5 - 13.5	8.5 - 10.3 - 14.8

FL-30 with 300 mm inlet

76.2 mm Slot Width	Length 600 mm	Air Flow, l/s	38	85	132	179	227	274	321
		Total Pressure, Pa	1	7	17	31	50	73	100
		Static Pressure, Pa	1	6	15	28	44	64	89
		NC (Noise Criteria)	<10	<10	<10	16	26	35	42
		Throw, m	0.3 - 1 - 3	2.3 - 3.3 - 5.8	3.8 - 5.3 - 7.3	5 - 6 - 8.5	5.5 - 6.8 - 9.8	6 - 7.3 - 10.8	6.8 - 8.3 - 11.5
	Length 1225 mm	Air Flow, l/s	71	146	222	297	373	448	524
		Total Pressure, Pa	2	7	16	29	46	66	90
		Static Pressure, Pa	1	5	11	19	30	43	59
		NC (Noise Criteria)	<10	<10	<10	19	30	38	45
		Throw, m	0.5 - 1.3 - 4	2.5 - 4.3 - 7.5	4.3 - 6.5 - 9.5	5.8 - 8 - 11	7 - 8.8 - 12.3	8 - 9.5 - 13.5	8.5 - 10.3 - 14.8
	Length 1525 mm	Air Flow, l/s	85	170	255	340	425	510	595
		Total Pressure, Pa	2	7	16	29	45	65	89
		Static Pressure, Pa	1	4	9	16	25	36	49
		NC (Noise Criteria)	<10	<10	<10	20	30	38	45
		Throw, m	0.5 - 1.3 - 4.3	2.3 - 4.3 - 8.3	4.3 - 6.5 - 10	5.8 - 8.3 - 12	7.3 - 9.5 - 13	8.3 - 10 - 14.3	8.8 - 11 - 15.5

- All pressures are given in Pascal
- Isothermal throw values are given for terminal velocities of .8, .5, and .3 mps.
- 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.
- Data was obtained from test conducted in accordance with ANSI / ASHRAE Standard 70-1991. " Method of Testing for Rating the Performance of Air Outlets and Inlets."
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