

ML-37 Linear Slot Diffusers 12.7 mm Slot Supply

1 Slot	Air Flow , l/s per meter	8	16	24	32	40	48	56	64	72
	Static Pressure, Pa	1	6	13	22	35	51	69	90	114
	NC (Noise Criteria)	-	-	20	27	32	37	40	44	46
	Horizontal	0.3 - 0.3 - 1.8	1 - 1.8 - 3.8	1.8 - 3.3 - 4.5	3 - 3.8 - 5.3	3.3 - 4.3 - 5.8	3.8 - 4.5 - 6.5	4 - 5 - 7	4.3 - 5.3 - 7.5	4.5 - 5.5 - 8
	Vertical	0.5	1.8	2.8	3.3	3.8	4.3	4.5	5	5.3
2 Slot	Air Flow , l/s per meter	16	32	48	64	80	97	113	129	145
	Static Pressure, Pa	1	6	13	22	35	51	69	90	114
	NC (Noise Criteria)	-	13	23	30	35	40	43	47	49
	Horizontal	0.3 - 1 - 3	1.5 - 3 - 5.3	3 - 4.5 - 6.5	4.3 - 5.3 - 7.5	5 - 5.8 - 8.5	5.3 - 6.5 - 9.3	5.8 - 7 - 10	6 - 7.5 - 10.8	6.5 - 8 - 11.3
	Vertical	1.3	2.5	4	5	5.3	5.8	6	6.8	7.3
3 Slot	Air Flow , l/s per meter	24	48	72	97	121	145	169	193	217
	Static Pressure, Pa	1	6	13	22	35	51	69	90	114
	NC (Noise Criteria)	-	15	25	32	37	41	45	48	51
	Horizontal	0.5 - 1.3 - 4	2.3 - 4 - 6.5	4 - 5.5 - 8	5.3 - 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	8 - 9.8 - 13.8
	Vertical	1.5	3	4.5	5.8	6.5	7	7.5	8.3	8.5
4 Slot	Air Flow , l/s per meter	32	64	97	129	161	193	225	258	290
	Static Pressure, Pa	1	6	13	22	35	51	69	90	114
	NC (Noise Criteria)	-	16	26	33	38	43	46	50	52
	Horizontal	1 - 1.8 - 4.3	3 - 4.3 - 7.5	4.3 - 6.5 - 9.3	5.8 - 7.5 - 10.8	6.8 - 8.5 - 12	7.5 - 9.3 - 13	8.3 - 10 - 14	8.5 - 10.8 - 15	9.3 - 11.3 - 15.8
	Vertical	2.3	3.8	5.5	6.8	7.5	8.3	8.8	9.5	10
5 Slot	Air Flow , l/s per meter	40	80	121	161	201	241	282	322	362
	Static Pressure, Pa	1	6	13	22	35	51	69	90	114
	NC (Noise Criteria)	-	17	27	34	39	44	47	51	53
	Horizontal	1 - 2.3 - 5	3.3 - 5 - 8.5	5 - 7.3 - 10.3	6.8 - 8.5 - 12	7.5 - 9.5 - 13.5	8.5 - 10.3 - 14.8	9.3 - 11 - 15.8	9.8 - 12 - 16.8	10.3 - 12.5 - 17.8
	Vertical	2.3	4.3	6	7.5	8.5	9.3	9.8	10.8	11.3
6 Slot	Air Flow , l/s per meter	48	97	145	193	241	290	338	386	435
	Static Pressure, Pa	1	6	13	22	35	51	69	90	114
	NC (Noise Criteria)	-	18	28	35	40	44	48	51	54
	Horizontal	1.3 - 2.8 - 5.5	3.8 - 5.5 - 9.3	5.5 - 8 - 11.3	7.3 - 9.3 - 13	8.5 - 10.3 - 14.8	9.3 - 11.3 - 15.8	10 - 12.3 - 17	10.8 - 13 - 18.3	11.3 - 13.8 - 19.5
	Vertical	2.3	5	6.8	8.3	9.3	10	10.8	11.5	12.3
7 Slot	Air Flow , l/s per meter	56	113	169	225	282	338	394	451	507
	Static Pressure, Pa	1	6	13	22	35	51	69	90	114
	NC (Noise Criteria)	-	19	29	35	41	45	49	52	55
	Horizontal	1.8 - 3 - 5.8	4 - 5.8 - 10	5.8 - 8.5 - 12.3	7.5 - 10 - 14	9.3 - 11 - 15.8	10 - 12.3 - 17	10.8 - 13 - 18.5	11.5 - 14 - 19.8	12.3 - 15 - 21
	Vertical	2.5	5	7.3	8.8	9.8	10.8	11.5	12.5	13
8 Slot	Air Flow , l/s per meter	64	129	193	258	322	386	451	515	580
	Static Pressure, Pa	1	6	13	22	35	51	69	90	114
	NC (Noise Criteria)	-	19	29	36	41	46	49	53	55
	Horizontal	2.3 - 3 - 6	4.3 - 6 - 10.8	6 - 9.3 - 13	8.3 - 10.8 - 15	9.8 - 12 - 16.8	10.8 - 13 - 18.3	11.5 - 14 - 19.8	12.3 - 15 - 21.3	13 - 15.8 - 22.5
	Vertical	2.5	5.3	8	9.5	10.8	11.5	12.5	13	13.8

NC corrections for various diffuser lengths.

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

- Horizontal throw values are given for terminal velocities of .8, .5, and .3 mps.
- Throw Values are given for Isothermal Conditions, and are based on 1225mm active section.
- All pressures are given in pascals
- Vertical throw values are given for terminal velocities of .3 mps
- For divided throw, use the l/s/m value for the number of slots in each direction. For sound, use the NC values for cfm-per-foot for the total number of slots.
- 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 vertical throw, deduct 11dB from each NC value.
- 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 •

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ML-38 Linear Slot Diffusers 19 mm Slot Supply

1 Slot	Air Flow, l/s per meter	10	19	29	38	48	58	67	77	86
	Static Pressure, Pa	1	4	9	16	25	36	50	65	82
	NC (Noise Criteria)	-	-	14	20	26	30	34	37	40
	Horizontal	0.3 - 0.5 - 1.8	1 - 1.8 - 5	1.8 - 3.8 - 6	3.3 - 5 - 7	4 - 5.5 - 8	5 - 6 - 8.5	5.5 - 6.8 - 9.5	5.8 - 7 - 10	6 - 7.5 - 10.8
	Vertical	0.5	1.8	3	3.8	4.3	4.5	5	5.3	5.5
2 Slot	Air Flow, l/s per meter	19	38	58	77	96	115	134	154	173
	Static Pressure, Pa	1	4	9	16	25	36	50	65	82
	NC (Noise Criteria)	-	-	17	23	29	33	37	40	43
	Horizontal	0.3 - 1 - 3.3	1.5 - 3.3 - 6.8	3.3 - 5.3 - 8.5	4.5 - 6.8 - 10	5.8 - 8 - 11.3	6.8 - 8.5 - 12.3	7.5 - 9.5 - 13	8.3 - 10 - 14	8.5 - 10.8 - 15
	Vertical	1.3	2.8	4.3	5.3	5.8	6.5	7	7.3	7.5
3 Slot	Air Flow, l/s per meter	29	58	86	115	144	173	202	230	259
	Static Pressure, Pa	1	4	9	16	25	36	50	65	82
	NC (Noise Criteria)	-	-	18	25	31	35	39	42	45
	Horizontal	0.5 - 1.5 - 4.3	2.5 - 4.3 - 8.3	4.3 - 6 - 10.8	5.5 - 8.3 - 12.3	7 - 9.8 - 13.8	8.3 - 10.8 - 15	9.5 - 11.5 - 16.3	10 - 12.3 - 17.3	10.8 - 13 - 18.3
	Vertical	1.8	3.3	5.3	6.5	7	8	8.5	9.3	9.8
4 Slot	Air Flow, l/s per meter	38	77	115	154	192	230	269	307	346
	Static Pressure, Pa	1	4	9	16	25	36	50	65	82
	NC (Noise Criteria)	-	-	20	26	32	36	40	43	46
	Horizontal	1 - 1.8 - 5	3.3 - 5 - 9.8	5 - 7.3 - 12.3	6.5 - 9.8 - 14	8 - 11.3 - 15.8	9.8 - 12.3 - 17.3	11 - 13 - 18.5	11.5 - 14 - 20	12.3 - 15 - 21.3
	Vertical	1.8	4	5.8	7.3	8.3	9.3	9.8	10.3	11
5 Slot	Air Flow, l/s per meter	48	96	144	192	240	288	336	384	432
	Static Pressure, Pa	1	4	9	16	25	36	50	65	82
	NC (Noise Criteria)	-	-	21	27	33	37	41	44	47
	Horizontal	1.3 - 2.5 - 5.5	3.8 - 5.5 - 10.8	5.5 - 8 - 13.8	7.3 - 10.8 - 15.8	8.8 - 12.5 - 17.8	10.8 - 13.8 - 19.5	12.3 - 15 - 21	12.8 - 15.8 - 22.3	13.8 - 16.8 - 23.8
	Vertical	2.3	4.3	6.5	8.3	9.3	10	11	11.5	12.3
6 Slot	Air Flow, l/s per meter	58	115	173	230	288	346	403	461	518
	Static Pressure, Pa	1	4	9	16	25	36	50	65	82
	NC (Noise Criteria)	-	12	21	28	34	38	42	45	48
	Horizontal	1.5 - 3 - 5.8	4 - 5.8 - 12	5.8 - 8.8 - 15	8 - 12 - 17.3	9.8 - 13.8 - 19.5	12 - 15 - 21.3	13 - 16.3 - 22.8	14 - 17.3 - 24.8	15 - 18.3 - 26
	Vertical	2.5	4.5	7.3	9.3	10	11	12	12.8	13.8
7 Slot	Air Flow, l/s per meter	67	134	202	269	336	403	470	537	605
	Static Pressure, Pa	1	4	9	16	25	36	50	65	82
	NC (Noise Criteria)	-	12	22	29	34	39	42	45	48
	Horizontal	1.8 - 3 - 6.5	4.3 - 6.5 - 12.8	6.5 - 9.5 - 16.3	8.5 - 12.8 - 18.5	10.8 - 15 - 21	12.8 - 16.3 - 22.8	14.3 - 17.8 - 24.8	15.3 - 18.5 - 26.5	16.3 - 19.8 - 28
	Vertical	2.5	5	7.3	9.8	11	12	12.8	13.8	14.8
8 Slot	Air Flow, l/s per meter	77	154	230	307	384	461	537	614	691
	Static Pressure, Pa	1	4	9	16	25	36	50	65	82
	NC (Noise Criteria)	-	13	23	29	35	39	43	46	49
	Horizontal	2.3 - 3.3 - 6.8	4.5 - 6.8 - 13.8	6.8 - 10 - 17.3	9.3 - 13.8 - 20	11.3 - 15.8 - 22.3	13.8 - 17.3 - 24.8	15.3 - 18.5 - 26.5	16.5 - 20 - 28.3	17.3 - 21.3 - 30.3
	Vertical	2.5	5	7.3	10	11.5	12.8	13.8	14.8	15.5

NC corrections for various diffuser lengths.

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

- Horizontal throw values are given for terminal velocities of .8, .5, and .3 mps.
- Throw Values are given for Isothermal Conditions, and are based on 1225mm active section.
- All pressures are given in pascals
- Vertical throw values are given for terminal velocities of .3 mps
- For divided throw, use the l/s/m value for the number of slots in each direction. For sound, use the NC values for cfm-per-foot for the total number of slots.
- 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 vertical throw, deduct 11dB from each NC value.
- 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

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ML-39 Linear Slot Diffusers 25.4 mm Slot Supply

1 Slot	Air Flow, l/s per meter	10	20	31	41	51	61	72	82	92
	Static Pressure, Pa	1	4	8	14	22	32	43	57	72
	NC (Noise Criteria)	-	-	13	20	26	30	34	37	40
	Horizontal	0.3 - 0.5 - 1.8	1 - 1.8 - 5	1.8 - 3.8 - 6.5	3.3 - 5 - 7.3	4.3 - 5.8 - 8.3	5 - 6.5 - 8.8	5.5 - 6.8 - 9.8	6 - 7.3 - 10.3	6.5 - 7.5 - 11
Vertical	0.5	2.5	3.8	4.3	4.5	5.3	5.5	5.8	6	
2 Slot	Air Flow, l/s per meter	20	41	61	82	102	123	143	163	184
	Static Pressure, Pa	1	4	8	14	22	32	43	57	72
	NC (Noise Criteria)	-	-	16	23	29	33	37	40	43
	Horizontal	0.3 - 1 - 3.8	1.5 - 3.8 - 7	3.8 - 5.3 - 8.8	4.5 - 7 - 10.3	5.8 - 8.3 - 11.5	7 - 8.8 - 12.8	8 - 9.8 - 13.8	8.5 - 10.3 - 14.8	8.8 - 11 - 15.5
Vertical	1.5	3.3	5	5.8	6.8	7.3	8	8.5	9.3	
3 Slot	Air Flow, l/s per meter	31	61	92	123	153	184	215	245	276
	Static Pressure, Pa	1	4	8	14	22	32	43	57	72
	NC (Noise Criteria)	-	-	18	25	30	35	39	42	45
	Horizontal	0.5 - 1.5 - 4.3	2.5 - 4.3 - 8.5	4.3 - 6.5 - 11	5.8 - 8.5 - 12.8	7 - 10 - 14	8.5 - 11 - 15.5	9.8 - 12 - 16.8	10.3 - 12.8 - 18	11 - 13.5 - 19
Vertical	2.3	4	6	7.3	8.3	8.8	9.8	10.3	11	
4 Slot	Air Flow, l/s per meter	41	82	123	163	204	245	286	327	368
	Static Pressure, Pa	1	4	8	14	22	32	43	57	72
	NC (Noise Criteria)	-	-	19	26	32	36	40	43	46
	Horizontal	1 - 1.8 - 5	3.3 - 5 - 10	5 - 7.3 - 12.8	6.8 - 10 - 14.8	8.3 - 11.5 - 16.5	10 - 12.8 - 18	11.3 - 13.8 - 19.3	12 - 14.8 - 20.8	12.8 - 15.5 - 22
Vertical	2.5	4.5	7	8.5	9.5	10.3	11	12	12.8	
5 Slot	Air Flow, l/s per meter	51	102	153	204	255	307	358	409	460
	Static Pressure, Pa	1	4	8	14	22	32	43	57	72
	NC (Noise Criteria)	-	-	20	27	33	37	41	44	47
	Horizontal	1.3 - 2.5 - 5.5	3.8 - 5.5 - 11	5.5 - 8.3 - 14	7.3 - 11 - 16.5	9.3 - 12.8 - 18.3	11 - 14 - 20	12.5 - 15.3 - 21.8	13.5 - 16.5 - 23.3	14 - 17.3 - 24.5
Vertical	2.8	5.3	7.5	9.5	10.3	11.5	12.5	13	13.8	
6 Slot	Air Flow, l/s per meter	61	123	184	245	307	368	429	490	552
	Static Pressure, Pa	1	4	8	14	22	32	43	57	72
	NC (Noise Criteria)	-	12	21	28	33	38	42	45	48
	Horizontal	1.5 - 3 - 6	4 - 6 - 12.3	6 - 9.3 - 15.5	8.3 - 12.3 - 18	10 - 14 - 20	12.3 - 15.5 - 22	13.8 - 16.8 - 23.8	14.8 - 18 - 25.3	15.5 - 19 - 26.8
Vertical	2.8	5.8	8.5	10.3	11.5	12.5	13.8	14.8	15.5	
7 Slot	Air Flow, l/s per meter	72	143	215	286	358	429	501	572	644
	Static Pressure, Pa	1	4	8	14	22	32	43	57	72
	NC (Noise Criteria)	-	12	22	29	34	38	42	45	48
	Horizontal	1.8 - 3.3 - 6.8	4.3 - 6.8 - 13	6.8 - 9.8 - 16.8	8.8 - 13 - 19.3	11 - 15.3 - 21.8	13 - 16.8 - 23.8	14.8 - 18 - 25.5	15.8 - 19.3 - 27.5	16.8 - 20.5 - 29
Vertical	3	6	9.3	11	12.5	13.8	14.8	15.8	16.8	
8 Slot	Air Flow, l/s per meter	82	163	245	327	409	490	572	654	736
	Static Pressure, Pa	1	4	8	14	22	32	43	57	72
	NC (Noise Criteria)	-	13	23	29	35	39	43	46	49
	Horizontal	2.5 - 3.8 - 7	4.5 - 7 - 14	7 - 10.8 - 18	9.5 - 14 - 20.8	11.5 - 16.5 - 23.3	14 - 18 - 25.3	15.8 - 19.3 - 27.5	16.8 - 20.8 - 29.3	18 - 22 - 31
Vertical	3.3	6.8	9.8	12	13	14.8	15.8	16.8	17.8	

NC corrections for various diffuser lengths.

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

- Horizontal throw values are given for terminal velocities of .75, .5, and .25 mps.
- Throw Values are given for Isothermal Conditions, and are based on 1225mm active section.
- All pressures are given in pascals
- Vertical throw values are given for terminal velocities of .25 mps
- For divided throw, use the l/s/m value for the number of slots in each direction. For sound, use the NC values for cfm-per-foot for the total number of slots.
- 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.
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