

SLAD-50 • TAZR-S-50 (1/2" SLOT) - HORIZONTAL 1-WAY PATTERN - 4' ACTIVE (ATTACHED JET)

# SLOTS	CFM/FT/ SLOT	10	13	15	18	20	23	25	28	30	35
1	CFM	40	50	60	70	80	90	100	110	120	140
	Ps	.02	.02	.03	.05	.06	.08	.10	.12	.14	.19
	NC	<10	14	19	23	26	30	32	35	37	41
	Throw	3 6 11	4 7 12	6 8 13	7 10 14	7 11 15	8 11 16	9 12 17	10 13 18	11 13 19	12 14 20
2	CFM	80	100	120	140	160	180	200	220	240	280
	Ps	.02	.02	.03	.05	.06	.08	.10	.12	.14	.19
	NC	11	17	22	26	29	33	35	38	40	44
	Throw	4 8 15	6 10 17	8 12 19	9 14 20	11 15 21	12 16 23	13 17 24	15 18 25	15 19 26	16 20 28
3	CFM	120	150	180	210	240	270	300	330	360	420
	Ps	.02	.02	.03	.05	.06	.08	.10	.12	.14	.19
	NC	13	19	24	28	31	34	37	40	42	46
	Throw	4 10 19	7 12 21	10 15 23	11 17 25	13 19 26	15 20 28	16 21 29	18 22 31	19 23 32	20 25 35
4	CFM	160	200	240	280	320	360	400	440	480	560
	Ps	.02	.02	.03	.05	.06	.08	.10	.12	.14	.19
	NC	15	20	25	29	33	36	38	41	43	47
	Throw	5 11 21	8 14 24	11 17 26	13 20 28	15 21 30	17 23 32	19 24 34	21 25 36	21 26 37	23 28 40

SLAD-75 • TAZR-S-75 (3/4" SLOT) - HORIZONTAL 1-WAY PATTERN - 4' ACTIVE (ATTACHED JET)

# SLOTS	CFM/FT/ SLOT	10	20	25	30	35	40	45	50	55	60
1	CFM	40	80	100	120	140	160	180	200	220	240
	Ps	.10	.04	.06	.09	.12	.15	.19	.24	.29	.34
	NC	<10	11	17	22	26	29	33	35	38	40
	Throw	1 3 11	6 11 16	9 13 18	11 14 20	12 15 21	13 16 23	14 17 24	15 18 25	15 19 27	16 20 28
2	CFM	80	160	200	240	280	320	360	400	440	480
	Ps	.10	.04	.06	.09	.12	.15	.19	.24	.29	.34
	NC	<10	15	20	25	29	33	36	38	41	43
	Throw	2 5 15	8 15 23	12 18 25	15 20 28	17 21 30	18 23 32	20 24 34	21 25 36	22 27 38	23 28 39
3	CFM	120	240	300	360	420	480	540	600	660	720
	Ps	.10	.04	.06	.09	.12	.15	.19	.24	.29	.34
	NC	<10	16	22	27	31	34	37	40	43	45
	Throw	2 6 18	10 18 28	15 22 31	18 24 34	21 26 37	23 28 39	24 29 42	25 31 44	27 32 46	28 34 48
4	CFM	160	320	400	480	560	640	720	800	880	960
	Ps	.10	.04	.06	.09	.12	.15	.19	.24	.29	.34
	NC	<10	18	23	28	32	36	39	41	44	46
	Throw	3 6 21	11 21 32	18 25 36	21 28 39	24 30 42	26 32 45	28 34 48	29 36 51	31 38 53	32 39 55

Test Standard

- ANSI / ASHRAE standard 70 "Method of Testing for Rating the Performance of Air Outlets and Inlets"
- Data based on non-ducted, pressurized ceiling plenum applications. Ducted plenums should be sized with inlet velocities less than 750 fpm while maintaining equal discharge velocities along the diffuser length to maintain catalogue data.

Sound Levels

- NC is noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10-12 watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands
- NC shown is based on 4' diffuser length. For other active lengths, use the following adjustment factors:

If Diffuser Length is:	2'	4'	6'	8'	10+'
Adjust NC value by:	-3	0	+2	+3	+4

Throw (Horizontal Pattern)

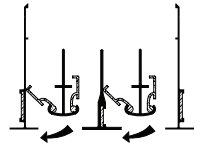
- The numbers shown in table are throw distances, in feet, measured along the jet trajectory axis relating to terminal velocities of 150,100, & 50 fpm, with the jet attached to a surface for a 10'+ active length. These are ONE way patterns. For other active lengths, use the following throw adjustment factors:

If Diffuser Length is:	2'	4'	6'	8'	10+'
Multiply Throw Dist By:	.70	1.0	1.2	1.4	1.6

- For installation with a free, unattached jet, multiply throw value by .70
- For two way applications, determine proportion of air in each direction and refer to throw distance for number of slots in the same direction.
- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream

Pressure

- P_s represents Static Pressure, inches of water



SLAD-100 • TAZR-S-100 (1" SLOT) - HORIZONTAL 1-WAY PATTERN - 4' ACTIVE (ATTACHED JET)

# SLOTS	CFM/FT/ SLOT	20	25	30	35	40	45	50	60	70	80
1	CFM	80	100	120	140	160	180	200	240	280	320
	Ps	.02	.03	.05	.06	.08	.10	.13	.18	.25	.33
	NC	<10	13	18	22	25	29	31	36	40	43
	Throw	6 11 16	9 13 18	11 14 20	12 15 21	13 16 23	14 17 24	15 18 25	16 20 28	17 21 30	18 23 32
2	CFM	160	200	240	280	320	360	400	480	560	640
	Ps	.02	.03	.05	.06	.08	.10	.13	.18	.25	.33
	NC	10	16	21	25	28	32	34	39	43	46
	Throw	9 15 23	13 18 25	15 20 28	17 21 30	18 23 32	20 24 34	21 25 36	23 28 39	24 30 42	26 32 45
3	CFM	240	300	360	420	480	540	600	720	840	960
	Ps	.02	.03	.05	.06	.08	.10	.13	.18	.25	.33
	NC	12	18	23	27	30	33	36	41	45	48
	Throw	11 19 28	16 22 31	19 24 34	21 26 37	23 28 39	24 29 42	25 31 44	28 34 48	30 37 52	32 39 55
4	CFM	320	400	480	560	640	720	800	960	1120	1280
	Ps	.02	.03	.05	.06	.08	.10	.13	.18	.25	.33
	NC	14	19	24	28	32	35	37	42	46	50
	Throw	12 22 32	18 25 36	22 28 39	24 30 42	26 32 45	28 34 48	29 36 51	32 39 55	35 42 60	37 45 64

SLAD-150 • TAZR-S-150 (1-1/2" SLOT) - HORIZONTAL 1-WAY PATTERN - 4' ACTIVE (ATTACHED JET)

# SLOTS	CFM/FT/ SLOT	30	35	40	50	60	70	80	90	100	110
1	CFM	120	140	160	200	240	280	320	360	400	440
	Ps	.02	.02	.03	.04	.06	.08	.11	.14	.17	.21
	NC	<10	11	14	20	25	29	32	35	38	40
	Throw	6 9 14	7 10 15	8 12 16	10 13 18	12 14 20	13 15 22	13 16 23	14 17 25	15 18 26	16 19 27
2	CFM	240	280	320	400	480	560	640	720	800	880
	Ps	.02	.02	.03	.04	.06	.08	.11	.14	.17	.21
	NC	10	14	17	23	28	32	35	38	41	44
	Throw	8 13 20	10 15 22	11 16 23	14 18 26	16 20 28	18 22 31	19 23 33	20 25 35	21 26 37	22 27 38
3	CFM	360	420	480	600	720	840	960	1080	1200	1320
	Ps	.02	.02	.03	.04	.06	.08	.11	.14	.17	.21
	NC	12	16	19	25	30	34	37	40	43	45
	Throw	10 15 25	12 18 27	14 20 28	17 22 32	20 25 35	22 27 38	23 28 40	25 30 43	26 32 45	27 33 47
4	CFM	480	560	640	800	960	1120	1280	1440	1600	1760
	Ps	.02	.02	.03	.04	.06	.08	.11	.14	.17	.21
	NC	13	17	20	26	31	35	38	41	44	47
	Throw	12 18 28	14 21 31	16 23 33	20 26 37	23 28 40	25 31 43	27 33 46	28 35 49	30 37 52	31 38 54

Test Standard

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Sound Levels

- NC is noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10-12 watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands
- NC shown is based on 4' diffuser length. For other active lengths, use the following adjustment factors:

If Diffuser Length is:	2'	4'	6'	8'	10+'
Adjust NC value by:	-3	0	+2	+3	+4

Throw (Horizontal Pattern)

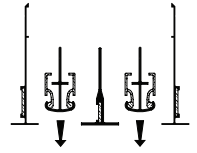
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If Diffuser Length is:	2'	4'	6'	8'	10+'
Multiply Throw Dist By:	.70	1.0	1.2	1.4	1.6

- For installation with a free, unattached jet, multiply throw value by .70
- For two way applications, determine proportion of air in each direction and refer to throw distance for number of slots in the same direction.
- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream

Pressure

- P_s represents Static Pressure, inches of water



SLAD-50 • TAZR-S-50 (1/2" SLOT) - VERTICAL PROJECTION - 4' ACTIVE (FREE JET)

# SLOTS	CFM/FT/ SLOT	10	15	20	25	30	35	40	45	50	60
1	CFM	40	60	80	100	120	140	160	180	200	240
	Ps	.10	.02	.03	.05	.07	.10	.13	.16	.20	.29
	NC	<10	<10	12	18	23	27	30	34	36	41
	Throw	1 3 6	3 4 9	4 6 11	5 7 12	6 9 13	7 10 14	8 11 15	9 11 16	9 12 17	11 13 19
2	CFM	80	120	160	200	240	280	320	360	400	480
	Ps	.10	.02	.03	.05	.07	.10	.13	.16	.20	.29
	NC	<10	<10	16	21	26	30	34	37	39	44
	Throw	2 4 8	4 6 12	5 8 15	7 10 17	8 12 19	9 14 20	11 15 22	12 16 23	13 17 24	15 19 26
3	CFM	120	180	240	300	360	420	480	540	600	720
	Ps	.10	.03	.06	.10	.14	.19	.25	.31	.39	.56
	NC	13	24	31	37	42	46	49	52	55	60
	Throw	2 5 10	5 7 15	7 10 19	8 12 21	10 15 23	11 17 25	13 19 26	15 20 28	16 21 29	19 23 32
4	CFM	160	240	320	400	480	560	640	720	800	960
	Ps	.10	.03	.06	.10	.14	.19	.25	.31	.39	.56
	NC	15	25	33	38	43	47	51	54	56	61
	Throw	3 6 11	6 9 17	8 11 22	9 14 24	11 17 26	13 20 28	15 22 30	17 23 32	19 24 34	22 26 37

SLAD-75 • TAZR-S-75 (3/4" SLOT) - VERTICAL PROJECTION - 4' ACTIVE (FREE JET)

# SLOTS	CFM/FT/ SLOT	20	25	30	35	40	50	60	70	80	90
1	CFM	80	100	120	140	160	200	240	280	320	360
	Ps	.02	.03	.04	.06	.07	.11	.16	.22	.29	.37
	NC	<10	<10	13	17	21	27	31	35	39	42
	Throw	2 4 9	4 5 11	4 7 13	5 8 15	6 9 16	7 11 17	9 13 19	10 15 21	12 16 22	13 17 23
2	CFM	160	200	240	280	320	400	480	560	640	720
	Ps	.02	.03	.04	.06	.07	.11	.16	.22	.29	.37
	NC	<10	12	17	21	24	30	35	39	42	45
	Throw	3 6 12	5 8 16	6 9 19	7 11 21	8 12 22	10 16 25	12 19 27	14 21 29	17 22 31	19 23 33
3	CFM	240	300	360	420	480	600	720	840	960	1080
	Ps	.02	.03	.04	.06	.07	.11	.16	.22	.29	.37
	NC	<10	14	18	22	26	32	36	40	44	47
	Throw	4 8 15	6 9 19	8 11 23	9 13 25	10 15 27	13 19 30	15 23 33	18 25 36	20 27 38	23 29 40
4	CFM	320	400	480	560	640	800	960	1120	1280	1440
	Ps	.02	.03	.04	.06	.07	.11	.16	.22	.29	.37
	NC	<10	15	20	24	27	33	38	42	45	48
	Throw	5 9 18	7 11 22	9 13 26	10 15 29	12 18 31	15 22 35	18 26 38	20 29 41	23 31 44	26 33 47

Test Standard

- ANSI / ASHRAE standard 70 "Method of Testing for Rating the Performance of Air Outlets and Inlets"
- Data based on non-ducted, pressurized ceiling plenum applications. Ducted plenums should be sized with inlet velocities less than 750 fpm while maintaining equal discharge velocities along the diffuser length to maintain catalogue data.

Pressure

- P_s represents Static Pressure, inches of water

Sound Levels

- NC is noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10-12 watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands
- NC shown is based on 4' diffuser length. For other active lengths, use the following adjustment factors:

If Diffuser Length is:	2'	4'	6'	8'	10+'
Adjust NC value by:	-3	0	+2	+3	+4

Vertical Projection

- The numbers shown in table are projection distances, in feet, measured along the jet trajectory axis relating to a terminal velocity of 50 fpm, for a 4' active length. These projection distances are based on Isothermal conditions.

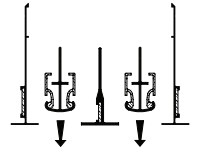
For other active lengths, use the following projection adjustment factors:

If Diffuser Length is:	2'	4'	6'	8'	10+'
Multiply Throw Dist By:	.70	1.0	1.2	1.4	1.6

Projection distances will increase or shorten based on a heating or cooling differential. Multiply the Isothermal projection distances from the tables above by the adjustment factor shown below:

Temperature Differential, °F :	0	5	10	15	20
Heating - Adjustment Factor :	1.00	.93	.87	.82	.77
Cooling - Adjustment Factor :	1.00	1.05	1.10	1.16	1.23

- The table data is for a free, unattached jet (no surface effect). If the diffuser is close to a vertical surface and the jet attaches to that surface, the projection distance will increase by approximately x 1.4



SLAD-100 • TAZR-S-100 (1" SLOT) - VERTICAL PROJECTION - 4' ACTIVE (FREE JET)

# SLOTS	CFM/FT/SLOT	20	25	30	40	50	60	70	80	90	100
1	CFM	80	100	120	160	200	240	280	320	360	400
	Ps	.01	.02	.02	.04	.06	.09	.13	.17	.21	.26
	NC	<10	<10	<10	17	23	28	32	36	39	42
	Throw	2 4 9	4 6 11	4 7 13	6 9 16	7 11 18	9 13 20	10 15 21	12 16 23	13 17 24	15 18 25
2	CFM	160	200	240	320	400	480	560	640	720	800
	Ps	.01	.02	.02	.04	.06	.09	.13	.17	.21	.26
	NC	<10	<10	12	20	26	31	35	39	42	45
	Throw	3 6 13	5 8 16	6 9 19	8 13 23	10 16 25	13 19 28	15 21 30	17 23 32	19 24 34	21 25 36
3	CFM	240	300	360	480	600	720	840	960	1080	1200
	Ps	.01	.02	.02	.04	.06	.09	.13	.17	.21	.26
	NC	<10	<10	14	22	28	33	37	41	44	47
	Throw	4 8 15	6 10 19	8 12 23	10 15 28	13 19 31	15 23 34	18 26 37	20 28 39	23 30 42	25 31 44
4	CFM	320	400	480	640	800	960	1120	1280	1440	1600
	Ps	.01	.02	.02	.04	.06	.09	.13	.17	.21	.26
	NC	<10	10	15	23	29	34	38	42	45	48
	Throw	5 9 18	7 11 22	9 13 27	12 18 32	15 22 36	18 27 39	21 30 43	24 32 46	27 34 48	29 36 51

SLAD-150 • TAZR-S-150 (1-1/2" SLOT) - VERTICAL PROJECTION - 4' ACTIVE (FREE JET)

# SLOTS	CFM/FT/SLOT	40	60	80	90	100	110	120	130	140	150
1	CFM	160	240	320	360	400	440	480	520	560	600
	Ps	.01	.03	.06	.07	.09	.11	.13	.15	.18	.20
	NC	<10	17	24	28	30	33	35	37	39	41
	Throw	5 8 14	8 12 18	11 14 20	12 15 21	13 16 23	14 17 24	14 18 25	15 18 26	15 19 27	16 20 28
2	CFM	320	480	640	720	800	880	960	1040	1120	1200
	Ps	.01	.03	.06	.07	.09	.11	.13	.15	.18	.20
	NC	10	20	28	31	33	36	38	40	42	44
	Throw	7 11 20	11 17 25	15 20 29	17 21 30	18 23 32	19 24 34	20 25 35	21 26 36	22 27 38	23 28 39
3	CFM	480	720	960	1080	1200	1320	1440	1560	1680	1800
	Ps	.01	.03	.06	.07	.09	.11	.13	.15	.18	.20
	NC	11	22	29	32	35	38	40	42	44	46
	Throw	9 14 25	14 21 30	18 25 35	21 26 37	23 28 39	24 29 41	25 30 43	26 32 45	27 33 46	28 34 48
4	CFM	640	960	1280	1440	1600	1760	1920	2080	2240	2400
	Ps	.01	.03	.06	.07	.09	.11	.13	.15	.18	.20
	NC	13	23	31	34	36	39	41	43	45	47
	Throw	11 16 29	16 24 35	21 29 40	24 30 43	26 32 45	27 34 47	29 35 50	30 36 52	31 38 54	32 39 55

Test Standard

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Pressure

- P_s represents Static Pressure, inches of water

Sound Levels

- NC is noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10-12 watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands
- NC shown is based on 4' diffuser length. For other active lengths, use the following adjustment factors:

If Diffuser Length is:	2'	4'	6'	8'	10+'
Adjust NC value by:	-3	0	+2	+3	+4

Vertical Projection

- The numbers shown in table are projection distances, in feet, measured along the jet trajectory axis relating to a terminal velocity of 50 fpm, for a 4' active length. These projection distances are based on Isothermal conditions.

For other active lengths, use the following projection adjustment factors:

If Diffuser Length is:	2'	4'	6'	8'	10+'
Multiply Throw Dist By:	.70	1.0	1.2	1.4	1.6

Projection distances will increase or shorten based on a heating or cooling differential. Multiply the Isothermal projection distances from the tables above by the adjustment factor shown below:

Temperature Differential, °F :	0	5	10	15	20
Heating - Adjustment Factor :	1.00	.93	.87	.82	.77
Cooling - Adjustment Factor :	1.00	1.05	1.10	1.16	1.23

- The table data is for a free, unattached jet (no surface effect). If the diffuser is close to a vertical surface and the jet attaches to that surface, the projection distance will increase by approximately x 1.4