

MODEL 6610

Slot Diffuser - 1" Slot (CFM Per Linear Foot)

Slots	Static	Horizontal	.008	.030	.047	.068	.092	.120	.152	.188	.227	.270
	Pressure	Vertical	.003	.012	.020	.028	.037	.040	.061	.076	.092	.109
1	CFM/LF		10	20	25	30	35	40	45	50	55	60
	Horizontal Throw , Ft		6	22	24	27	29	31	33	35	36	38
	Vertical Throw , Ft		2	10	12	13	14	15	16	17	18	19
	Horizontal NC		<15	<15	<15	<15	19	22	24	26	28	30
	Vertical NC		<15	<15	<15	<15	<15	<15	<15	<15	16	18
2	CFM/LF		20	40	50	60	70	80	90	100	110	120
	Horizontal Throw , Ft		10	29	35	38	41	44	46	49	51	54
	Vertical Throw , Ft		4	14	17	18	20	21	23	24	25	26
	Horizontal NC		<15	<15	<15	<15	21	25	27	29	31	33
	Vertical NC		<15	<15	<15	<15	<15	<15	15	17	19	21
3	CFM/LF		30	60	75	90	105	120	135	150	165	180
	Horizontal Throw , Ft		18	36	41	44	48	51	54	57	60	63
	Vertical Throw , Ft		4	17	21	23	24	26	28	29	31	32
	Horizontal NC		<15	<15	<15	17	22	27	28	30	32	34
	Vertical NC		<15	<15	<15	<15	<15	15	16	18	20	22
4	CFM/LF		40	80	100	120	140	160	180	200	220	240
	Horizontal Throw , Ft		24	42	47	51	55	59	63	66	70	73
	Vertical Throw , Ft		5	20	24	26	28	30	32	34	35	37
	Horizontal NC		<15	<15	15	19	24	29	30	32	34	36
	Vertical NC		<15	<15	<15	<15	<15	17	18	20	22	24
5	CFM/LF		50	100	125	150	175	200	225	250	275	300
	Horizontal Throw , Ft		30	47	52	57	62	66	70	74	78	81
	Vertical Throw , Ft		6	24	29	32	34	37	39	41	43	45
	Horizontal NC		<15	<15	16	21	25	31	32	34	35	37
	Vertical NC		<15	<15	<15	<15	<15	19	20	22	23	25
6	CFM/LF		60	120	150	180	210	240	270	300	330	360
	Horizontal Throw , Ft		29	51	57	63	68	73	77	81	85	89
	Vertical Throw , Ft		6	24	29	32	34	37	39	41	43	45
	Horizontal NC		<15	15	17	22	27	33	34	35	36	38
	Vertical NC		<15	<15	<15	<15	<15	21	22	23	24	26
7	CFM/LF		70	140	175	210	245	280	315	350	385	420
	Horizontal Throw , Ft		32	55	62	68	73	78	83	88	92	96
	Vertical Throw , Ft		7	26	31	34	37	40	42	45	47	49
	Horizontal NC		<15	16	18	24	28	34	36	37	38	39
	Vertical NC		<15	<15	<15	<15	16	22	24	25	26	27
8	CFM/LF		80	160	200	240	280	320	360	400	440	480
	Horizontal Throw , Ft		34	59	66	73	78	84	89	94	98	103
	Vertical Throw , Ft		7	28	34	37	40	43	45	48	50	52
	Horizontal NC		<15	16	20	26	30	35	37	38	39	41
	Vertical NC		<15	<15	<15	<15	18	23	25	26	27	29

Performance Notes:

- On units without plenums, pressure drop reported is across the diffuser element only. The field supply pressure drop should be included when determining system fan requirements. A good approximation of the static pressure requirements can be calculated by adding the velocity pressure through the plenum inlet to the diffuser section pressure drop.
- NC is based on a 4 ft section of diffuser. The following table should be used to calculate sound levels for lengths other than 4 ft.
- To correct throws for lengths other than the 4 ft lengths used in determining catalog performance, throws should be adjusted per the following table:

NC Correction for Length					
Length (feet)	2	4	6	8	10
NC Correction	-2	+0	+2	+3	+5
Throw Correction Multiplier for Length					
Length (feet)	2	4	8	10	12
Throw Correction	0.7	1.0	1.5	1.7	1.8

- All pressures are in inches of water
- Isothermal throw is given for terminal velocity 50 fpm, based on 4 ft section.
- Vertical throw values are based on a 50 fpm terminal velocity
- For Vertical Supply, subtract one NC.
- For Return minus pattern controllers, deduct 12 NC.
- Throw values are based on a 1-way discharge from the slot. For 2-way discharges, throw is based upon the number and size of the slots throwing in each direction, with the total supply air flow split equally between all slots in the units.
- Data were collected in accordance to ASHRAE Standard 70-1991 " Method of testing for Rating in the Performance of Air Outlets and Inlets."

For sizes not shown, refer to online tools **GRD Selection Program** performance calculator on Home Page