

PERFORMANCE DATA

Square Plaque Diffuser – 300 mm x 300 mm Face Size

Listed Size	Neck Velocity (m/s)	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0	7.0	8.0
	Velocity Pressure (Pa)	2	4	5	8	10	12	15	22	30	40
100 mm	Total Pressure (Pa)	4	7	9	13	17	21	26	38	52	68
	L/s	16	21	25	29	33	37	41	49	58	66
	NC	-	-	-	-	-	16	19	25	30	35
	Throw (m)	0.4-0.6-1.2	0.5-0.7-1.5	0.6-0.9-1.7	0.7-1.0-1.9	0.8-1.2-2.0	0.9-1.3-2.1	1.0-1.5-2.2	1.2-1.7-2.4	1.4-1.9-2.6	1.6-2.0-2.8
125 mm	Total Pressure (Pa)	7	11	14	20	26	33	41	60	81	106
	L/s	26	32	39	45	51	58	64	77	90	103
	NC	-	-	-	-	17	21	24	30	35	39
	Throw (m)	0.6-0.8-1.7	0.7-1.0-2.0	0.8-1.2-2.1	1.0-1.4-2.3	1.1-1.7-2.5	1.2-1.9-2.6	1.4-2.0-2.8	1.7-2.1-3.0	1.9-2.3-3.3	2.0-2.5-3.5
150 mm	Total Pressure (Pa)	9	15	21	30	38	48	59	86	116	153
	L/s	37	46	56	65	74	83	93	111	130	148
	NC	-	-	-	16	21	24	28	34	39	43
	Throw (m)	0.7-1.1-2.1	0.9-1.4-2.3	1.1-1.6-2.6	1.3-1.9-2.8	1.4-2.1-3.0	1.6-2.2-3.2	1.8-2.3-3.3	2.1-2.6-3.6	2.3-2.8-3.9	2.4-3.0-4.2
180 mm	Total Pressure (Pa)	13	21	29	40	52	65	80	117	158	208
	L/s	50	63	76	88	101	114	126	151	177	202
	NC	-	-	-	20	24	28	31	37	42	46
	Throw (m)	0.9-1.4-2.5	1.1-1.7-2.7	1.4-2.1-3.0	1.6-2.3-3.2	1.8-2.5-3.5	2.1-2.6-3.7	2.2-2.7-3.9	2.5-3.0-4.2	2.6-3.2-4.6	2.8-3.5-4.9
205 mm	Total Pressure (Pa)	17	27	37	53	68	85	105	153	207	271
	L/s	66	82	99	115	132	148	165	198	231	264
	NC	-	-	17	22	27	31	34	40	45	49
	Throw (m)	1.1-1.7-2.8	1.4-2.1-3.1	1.7-2.4-3.4	2.0-2.6-3.7	2.2-2.8-4.0	2.4-3.0-4.2	2.6-3.1-4.4	2.8-3.4-4.9	3.0-3.7-5.2	3.2-4.0-5.6

Square Plaque Diffuser – 500 mm x 500 mm Face Size

Listed Size	Neck Velocity (m/s)	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0	7.0	8.0
	Velocity Pressure (Pa)	2	4	5	8	10	12	15	22	30	40
150 mm	Total Pressure (Pa)	3	5	8	11	14	17	22	31	43	56
	L/s	37	46	56	65	74	83	93	111	130	148
	NC	-	-	-	-	-	18	21	27	32	36
	Throw (m)	0.3-0.5-0.9	0.4-0.6-1.1	0.5-0.7-1.4	0.5-0.8-1.6	0.6-0.9-1.7	0.7-1.0-1.9	0.8-1.1-2.0	0.9-1.4-2.1	1.1-1.6-2.3	1.2-1.7-2.5
205 mm	Total Pressure (Pa)	6	9	12	17	22	28	35	51	68	90
	L/s	66	82	99	115	132	148	165	198	231	264
	NC	-	-	-	16	20	24	27	33	38	42
	Throw (m)	0.5-0.8-1.5	0.6-1.0-1.8	0.8-1.2-2.0	0.9-1.3-2.1	1.0-1.5-2.3	1.2-1.7-2.4	1.3-1.8-2.5	1.5-2.0-2.8	1.7-2.1-3.0	1.9-2.3-3.2
255 mm	Total Pressure (Pa)	8	13	18	25	32	41	50	73	99	129
	L/s	103	129	154	180	206	232	257	309	360	412
	NC	-	-	-	20	24	28	31	37	42	46
	Throw (m)	0.8-1.1-2.0	1.0-1.4-2.2	1.1-1.7-2.4	1.3-1.9-2.6	1.5-2.0-2.8	1.7-2.1-3.0	1.8-2.2-3.1	2.0-2.4-3.4	2.1-2.6-3.7	2.3-2.8-4.0

For performance notes, see end of section.

PERFORMANCE DATA

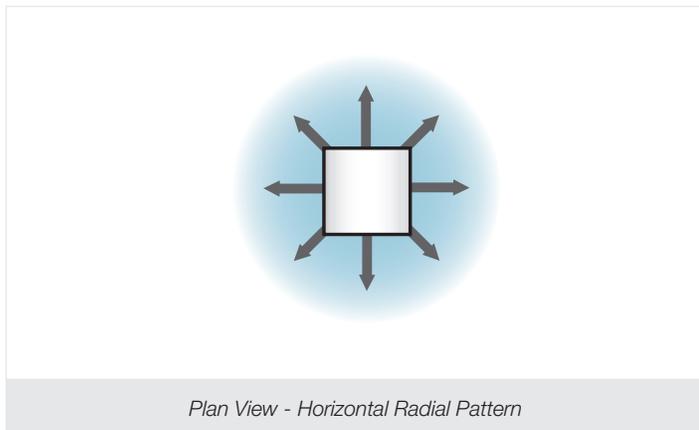
Square Plaque Diffuser – 600 mm x 600 mm Face Size

Listed Size	Neck Velocity (m/s)	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0	7.0	8.0
	Velocity Pressure (Pa)	2	4	5	8	10	12	15	22	30	40
150 mm	Total Pressure (Pa)	2	4	6	8	10	13	16	23	32	41
	L/s	37	46	56	65	74	83	93	111	130	148
	NC	-	-	-	-	-	19	22	29	34	38
	Throw (m)	0.4-0.5-1.1	0.4-0.7-1.3	0.5-0.8-1.6	0.6-0.9-1.9	0.7-1.1-2.0	0.8-1.2-2.1	0.9-1.3-2.2	1.1-1.6-2.4	1.2-1.9-2.6	1.4-2.0-2.8
205 mm	Total Pressure (Pa)	4	7	10	14	18	23	29	41	56	74
	L/s	66	82	99	115	132	148	165	198	231	264
	NC	-	-	-	-	19	23	27	33	38	43
	Throw (m)	0.6-0.8-1.7	0.7-1.0-2.1	0.8-1.2-2.3	1.0-1.4-2.5	1.1-1.7-2.7	1.2-1.9-2.8	1.4-2.1-3.0	1.7-2.3-3.3	1.9-2.5-3.5	2.2-2.7-3.8
255 mm	Total Pressure (Pa)	7	11	16	22	29	36	45	64	88	115
	L/s	103	129	154	180	206	232	257	309	360	412
	NC	-	-	-	18	22	26	30	36	41	46
	Throw (m)	0.8-1.2-2.3	1.0-1.5-2.6	1.2-1.7-2.9	1.4-2.0-3.1	1.5-2.3-3.3	1.7-2.5-3.5	1.9-2.6-3.7	2.3-2.9-4.1	2.5-3.1-4.4	2.7-3.3-4.7
305 mm	Total Pressure (Pa)	10	16	23	32	41	52	64	93	126	165
	L/s	148	185	222	259	297	334	371	445	519	593
	NC	-	-	15	21	25	29	33	39	44	49
	Throw (m)	1.0-1.5-2.8	1.3-1.9-3.2	1.5-2.3-3.5	1.8-2.6-3.7	2.0-2.8-4.0	2.3-3.0-4.2	2.6-3.2-4.5	2.8-3.5-4.9	3.1-3.7-5.3	3.3-4.0-5.7
355 mm	Total Pressure (Pa)	14	22	31	44	56	70	87	126	172	225
	L/s	202	252	303	353	404	454	505	605	706	807
	NC	-	-	18	23	27	31	35	41	46	51
	Throw (m)	1.3-1.9-3.3	1.6-2.4-3.7	1.9-2.9-4.0	2.3-3.1-4.4	2.6-3.3-4.7	2.9-3.5-4.9	3.0-3.7-5.2	3.3-4.0-5.7	3.6-4.4-6.2	3.8-4.7-6.6
380 mm	Total Pressure (Pa)	16	26	35	50	64	81	100	145	197	258
	L/s	232	290	348	405	463	521	579	695	811	927
	NC	-	-	19	24	28	32	36	42	47	52
	Throw (m)	1.4-2.2-3.5	1.8-2.7-4.0	2.2-3.1-4.3	2.5-3.3-4.7	2.9-3.5-5.0	3.1-3.7-5.3	3.2-4.0-5.6	3.5-4.3-6.1	3.8-4.7-6.6	4.1-5.0-7.1

Performance Notes:

- All pressures are in Pascals (Pa).
- The NC values and sound pressure level are based on a room absorption of 10dB re 10-12 watts and one diffuser.
- Tested in accordance with ASHRAE Standard 70-2023, "Method of Testing for Rating the Performance of Air Outlets and Inlets".
- Blanks (-) indicate an NC level below 15.
- Radii of diffusion are given in meters to terminal velocities of 0.75 m/s (minimum), 0.5 m/s (middle) and 0.25 m/s (maximum).
- Throw data is based on supply air and room air being at isothermal conditions.
- If the diffuser is mounted on an exposed duct, multiply the radii of diffusion in the table by 0.70.

Throw Diagram



PERFORMANCE DATA

High Induction Square Plaque Diffuser – 600 mm x 600 mm Face Size

Listed Size	Neck Velocity (m/s)	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0
	Velocity Pressure (Pa)	1	1	2	4	6	8	10	13	16	22
150 mm	Total Pressure (Pa)	1	2	4	6	9	12	15	19	24	34
	L/s	19	28	37	46	56	65	74	83	93	111
	NC	-	-	-	-	-	-	-	20	24	29
	Throw (m)	0.2-0.3-0.6	0.3-0.5-0.9	0.4-0.6-1.2	0.5-0.8-1.6	0.6-0.9-1.9	0.7-1.1-2.2	0.8-1.2-2.5	0.9-1.4-2.8	1.0-1.6-3.1	1.2-1.9-3.6
205 mm	Total Pressure (Pa)	2	5	8	13	19	26	33	42	52	75
	L/s	33	49	66	82	99	115	132	148	165	198
	NC	-	-	-	-	20	25	29	32	36	41
	Throw (m)	0.4-0.6-1.1	0.6-0.8-1.7	0.7-1.1-2.2	0.9-1.4-2.8	1.1-1.7-3.3	1.3-1.9-3.7	1.5-2.2-4.0	1.7-2.5-4.2	1.8-2.8-4.4	2.2-3.3-4.9
255 mm	Total Pressure (Pa)	4	9	15	24	34	47	61	78	96	138
	L/s	51	77	103	129	154	180	206	232	257	309
	NC	-	-	17	24	29	34	38	42	45	51
	Throw (m)	0.6-0.9-1.7	0.9-1.3-2.6	1.2-1.7-3.5	1.4-2.2-3.9	1.7-2.6-4.3	2.0-3.0-4.6	2.3-3.5-5.0	2.6-3.7-5.3	2.9-3.9-5.5	3.5-4.3-6.1
305 mm	Total Pressure (Pa)	6	14	25	39	57	77	101	127	157	227
	L/s	74	111	148	185	222	259	297	334	371	445
	NC	-	15	24	31	37	42	46	50	53	59
	Throw (m)	0.8-1.2-2.5	1.2-1.9-3.6	1.7-2.5-4.2	2.1-3.1-4.7	2.5-3.6-5.1	2.9-3.9-5.6	3.3-4.2-5.9	3.6-4.5-6.3	3.8-4.7-6.6	4.2-5.1-7.3
355 mm	Total Pressure (Pa)	10	22	38	60	86	117	153	194	239	345
	L/s	101	151	202	252	303	353	404	454	505	605
	NC	-	22	31	38	43	48	52	56	59	65
	Throw (m)	1.1-1.7-3.4	1.7-2.5-4.2	2.3-3.4-4.9	2.8-3.9-5.5	3.4-4.2-6.0	3.7-4.6-6.5	4.0-4.9-6.9	4.2-5.2-7.4	4.5-5.5-7.8	4.9-6.0-8.5

Performance Notes:

1. All pressures are in Pascals (Pa).
2. The NC values and sound pressure level are based on a room absorption of 10dB re 10-12 watts and one diffuser.
3. Tested in accordance with ASHRAE Standard 70-2023, "Method of Testing for Rating the Performance of Air Outlets and Inlets".
4. Blanks (-) indicate an NC level below 15.
5. Radii of diffusion are given in meters to terminal velocities of 0.75 m/s (minimum), 0.5 m/s (middle) and 0.25 m/s (maximum).
6. Throw data is based on supply air and room air being at isothermal conditions.
7. If the diffuser is mounted on an exposed duct, multiply the radii of diffusion in the table by 0.70.