

## 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

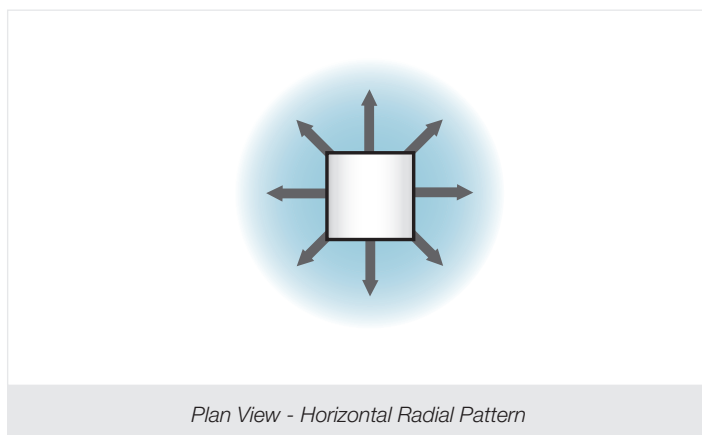
## Square Plaque Diffuser – 600 mm x 600 mm Face Size

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 70-2006, "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:**

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- 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 70-2006, "Method of Testing for Rating the Performance of Air Outlets and Inlets".
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- 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.