

PAS, 300x300 Module

Neck Velocity, m/s	1.5	2.0	2.5	3.0	3.6	4.1	5.1	6.1	7.1
Velocity Pressure, Pa	1	2	4	6	8	10	16	22	30

150mm Dia.	Air Flow, Liters/s	28	37	46	56	65	74	93	111	130
	Total Pressure, Pa	4	7	11	16	22	28	44	63	86
	NC (Noise Criteria)	-	-	-	16	21	25	32	38	43
	1 Way - Horizontal Throw, m	0.3 - 0.5 - 2.3	0.5 - 1.3 - 3	0.5 - 1.8 - 3.8	1.3 - 2.3 - 4.5	1.5 - 2.8 - 5.3	1.8 - 3 - 5.5	2.5 - 3.8 - 6	3 - 4.5 - 6.8	3.3 - 5.3 - 7
	2 Way - Horizontal Throw, m	0.3 - 0.5 - 1.5	0.5 - 1.3 - 2.3	0.5 - 1.3 - 2.8	1.3 - 1.5 - 3.3	1.3 - 1.8 - 3.8	1.5 - 2.3 - 4.3	1.8 - 2.8 - 5.3	2.3 - 3.3 - 5.5	2.5 - 3.8 - 6

150mm x 150mm Neck	Air Flow, Liters/s	35	47	59	71	83	94	118	142	165
	Total Pressure, Pa	4	7	11	16	22	29	46	66	90
	NC (Noise Criteria)	-	-	13	19	23	28	35	41	45
	1 Way - Horizontal Throw, m	0.3 - 0.5 - 2.5	0.5 - 1.3 - 3.3	1 - 1.8 - 4.3	1.3 - 2.5 - 5.3	1.5 - 3 - 5.8	2.3 - 3.3 - 6	2.8 - 4.3 - 6.8	3.3 - 5.3 - 7.3	4 - 5.8 - 8
	2 Way - Horizontal Throw, m	0.3 - 0.5 - 1.8	0.5 - 1.3 - 2.5	1 - 1.5 - 3	1.3 - 1.8 - 3.8	1.5 - 2.3 - 4.3	1.5 - 2.5 - 5	2.3 - 3 - 5.8	2.5 - 3.8 - 6.5	2.8 - 4.3 - 6.8

- Throw values are given for terminal velocities of .8, .50, and .3 m/s.
- Throw Values are given for Isothermal Conditions
- 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.
- 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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PAS, 600mm x 600mm Module

		1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	
Neck Velocity		1	2	4	6	8	10	16	22	30	
Velocity Pressure, Pa		1	2	4	6	8	10	16	22	30	
150 mm Dia.	Air Flow, Liters/s	28	37	46	56	65	74	93	111	130	
	Total Pressure, Pa	4	7	11	16	22	28	44	63	86	
	NC (Noise Criteria)	-	-	-	16	21	25	32	38	43	
	1 Way - Horizontal Throw, m	0.3 - 0.5 - 2.5	0.5 - 1.3 - 3	1 - 2.3 - 4	1.3 - 2.5 - 4.5	1.8 - 2.8 - 5.3	2.3 - 3 - 5.5	2.8 - 4 - 6	3 - 4.5 - 6.8	3.8 - 5.3 - 7	4.3 - 5.8 - 8
	2 Way - Horizontal Throw, m	0.3 - 0.5 - 1.8	0.5 - 1.3 - 2.5	1 - 1.5 - 3	1.3 - 1.8 - 3.3	1.3 - 2.3 - 4	1.5 - 2.5 - 4.5	1.8 - 3 - 5.3	2.5 - 3.3 - 5.5	2.8 - 4 - 6	3 - 4.5 - 6.8
150mm x 150mm Neck	Air Flow, Liters/s	35	47	59	71	83	94	118	142	165	
	Total Pressure, Pa	4	7	11	16	22	29	46	61	90	
	NC (Noise Criteria)	-	-	13	19	23	28	35	41	45	
	1 Way - Horizontal Throw, m	0.3 - 1 - 2.8	0.5 - 1.5 - 3.8	1 - 2.3 - 4.5	1.5 - 2.8 - 5.3	2.3 - 3 - 5.8	2.5 - 3.8 - 6	3 - 4.5 - 6.8	3.8 - 5.3 - 7.3	4.3 - 5.8 - 8	4.8 - 6.3 - 9.5
	2 Way - Horizontal Throw, m	0.3 - 1 - 1.8	0.5 - 1.3 - 2.8	1 - 1.5 - 3.3	1 - 1.5 - 3.3	1.3 - 1.8 - 4	1.5 - 2.5 - 4.5	1.8 - 2.8 - 5.3	2.3 - 3.3 - 5.5	2.8 - 4 - 6.5	3 - 4.5 - 6.8
200 mm Dia.	Air Flow, Liters/s	49	66	82	99	115	132	165	198	231	
	Total Pressure, Pa	4	8	12	18	24	31	49	71	96	
	NC (Noise Criteria)	-	-	16	22	27	31	38	44	49	
	1 Way - Horizontal Throw, m	0.3 - 1 - 3	1 - 1.8 - 4.3	1.3 - 2.8 - 5.3	1.8 - 3 - 6	2.5 - 3.8 - 6.8	2.8 - 4.3 - 7.3	3.8 - 5.3 - 8	4.3 - 6 - 8.8	5 - 6.8 - 9.5	5.8 - 7.5 - 10.8
	2 Way - Horizontal Throw, m	0.3 - 1 - 2.5	1 - 1.5 - 3	1.3 - 1.8 - 4	1.5 - 2.5 - 4.5	1.8 - 2.8 - 5.5	2.3 - 3 - 6	2.5 - 4 - 6.8	3 - 4.5 - 7.5	3.8 - 5.5 - 8.3	4.3 - 5.8 - 8.8
200mm x 200mm Neck	Air Flow, Liters/s	63	84	105	126	147	168	210	252	294	
	Total Pressure, Pa	5	8	13	19	26	33	52	75	102	
	NC (Noise Criteria)	-	12	19	25	29	34	41	47	51	
	1 Way - Horizontal Throw, m	0.5 - 1.3 - 3.8	1 - 2.3 - 5	1.5 - 3 - 6	2.3 - 3.8 - 7	2.8 - 4.3 - 7.5	3 - 5 - 8.3	4 - 6 - 9.3	4.7 - 10	5.5 - 7.5 - 10.8	6.3 - 8.3 - 11.3
	2 Way - Horizontal Throw, m	0.5 - 1.3 - 2.8	1 - 1.8 - 3.3	1.5 - 2.3 - 4.3	1.8 - 2.8 - 5.3	2.3 - 3 - 6	2.5 - 3.3 - 7	3 - 4.3 - 7.5	3.3 - 5.3 - 8.5	4 - 6 - 9.3	4.8 - 6.3 - 9.5
250mm Dia.	Air Flow, Liters/s	77	103	129	154	180	206	257	309	360	
	Total Pressure, Pa	5	9	14	20	27	36	55	80	109	
	NC (Noise Criteria)	-	14	21	27	32	36	43	49	54	
	1 Way - Horizontal Throw, m	0.5 - 1.3 - 4	1 - 2.3 - 5.3	1.5 - 3.3 - 6.8	2.3 - 4 - 8	3 - 4.5 - 8.5	3.8 - 5.3 - 9.3	4.5 - 6.8 - 10	5.3 - 8 - 11	6 - 8.5 - 12	7 - 9.5 - 13.5
	2 Way - Horizontal Throw, m	0.5 - 1.3 - 3	1 - 1.8 - 4	1.5 - 2.5 - 5	1.8 - 3 - 5.8	2.3 - 3.3 - 6.8	2.5 - 4 - 7.5	3 - 4.3 - 8.5	3.8 - 5.5 - 9.8	4.5 - 6.8 - 10	5.3 - 7.5 - 11.3
250mm x 250mm Neck	Air Flow, Liters/s	98	131	164	197	229	262	328	393	459	
	Total Pressure, Pa	5	10	15	22	30	39	60	87	118	
	NC (Noise Criteria)	-	16	23	29	34	38	45	51	56	
	1 Way - Horizontal Throw, m	0.5 - 1.5 - 4.5	1.3 - 2.5 - 6	1.8 - 3.8 - 7.5	2.5 - 4.5 - 8.8	3.3 - 5.3 - 9.5	4 - 6 - 10	5 - 7.5 - 11.3	6 - 8.8 - 12.5	7 - 9.5 - 13.5	8 - 10.8 - 15
	2 Way - Horizontal Throw, m	0.5 - 1.5 - 3.3	1.3 - 2.3 - 4.3	1.8 - 2.8 - 5.5	2.3 - 3.3 - 6.5	2.5 - 4 - 7.5	3 - 4.3 - 8.5	3.8 - 5.5 - 9.8	4.3 - 6.5 - 10.8	5.3 - 7.5 - 11.3	6.3 - 8.5 - 12.5
300mm Dia.	Air Flow, Liters/s	111	148	185	222	259	297	371	445	519	
	Total Pressure, Pa	8	14	22	32	43	56	88	127	173	
	NC (Noise Criteria)	-	18	25	30	35	40	47	52	57	
	1 Way - Horizontal Throw, m	2.3 - 3.8 - 6.8	3 - 5 - 7.5	4 - 5.8 - 8.5	5 - 6.8 - 9.5	5.5 - 7 - 10	6 - 7.5 - 10.8	7 - 8.5 - 12.3	7.5 - 9.5 - 13	8.3 - 10 - 14.3	9.5 - 11.3 - 16.3
	2 Way - Horizontal Throw, m	1.8 - 2.5 - 5.3	2.5 - 3.3 - 6.5	2.8 - 4.3 - 7.3	3.3 - 5.3 - 8	4 - 6 - 8.5	4.5 - 6.5 - 9.3	5.8 - 7.3 - 10.3	6.5 - 8 - 11.3	7 - 8.5 - 12.3	8 - 9.8 - 13.8
300mm x 300mm Neck	Air Flow, Liters/s	142	189	236	283	330	378	472	566	661	
	Total Pressure, Pa	8	15	23	33	45	59	92	132	180	
	NC (Noise Criteria)	-	20	27	33	38	42	49	55	60	
	1 Way - Horizontal Throw, m	2.5 - 4 - 7.3	3.8 - 5.5 - 8.5	4.5 - 6.8 - 9.8	5.5 - 7.3 - 10.8	6 - 8 - 11.3	7 - 8.5 - 12.3	8 - 9.8 - 13.8	8.5 - 10.8 - 15	9.5 - 11.3 - 16.3	10.8 - 13.8 - 18.8
	2 Way - Horizontal Throw, m	1.8 - 3 - 5.8	2.8 - 4 - 7.3	3.3 - 5 - 8.3	4 - 5.8 - 8.8	4.5 - 6.8 - 9.8	5.3 - 7.3 - 10.3	6.5 - 8.3 - 11.5	7.3 - 8.8 - 12.8	8 - 9.8 - 13.8	9 - 11.3 - 16.3
350mm Dia.	Air Flow, Liters/s	151	202	252	303	353	404	505	605	706	
	Total Pressure, Pa	8	15	23	33	46	60	93	134	182	
	NC (Noise Criteria)	12	21	28	34	38	43	50	56	60	
	1 Way - Horizontal Throw, m	2.5 - 4.3 - 7.5	3.8 - 5.5 - 8.8	4.5 - 7 - 10	5.5 - 7.5 - 11	6.5 - 8.3 - 12	7.3 - 8.8 - 12.5	8.3 - 10 - 14	8.8 - 11 - 15.5	9.8 - 12 - 16.8	11 - 13.5 - 19.3
	2 Way - Horizontal Throw, m	2.3 - 3 - 6	2.8 - 4 - 7.5	3.3 - 5.3 - 8.5	4 - 6 - 9.3	4.5 - 7 - 10	5.5 - 7.5 - 10.8	6.8 - 8.5 - 12	7.5 - 9.3 - 13	8.3 - 10 - 14.3	9.5 - 11.5 - 16.3
400mm Dia.	Air Flow, Liters/s	198	264	329	395	461	527	659	791	923	
	Total Pressure, Pa	9	16	25	35	48	63	99	142	193	
	NC (Noise Criteria)	14	23	31	36	41	45	53	58	63	
	1 Way - Horizontal Throw, m	3 - 5 - 8.8	4.3 - 6.5 - 10	5.3 - 8 - 11.3	6.5 - 8.8 - 12.5	7.3 - 9.5 - 13.5	8.3 - 10 - 14.3	9.5 - 11.3 - 16.3	10 - 12.5 - 17.8	11 - 13.5 - 19.3	12.5 - 16.3 - 21.3
	2 Way - Horizontal Throw, m	2.5 - 3.3 - 7	3 - 4.5 - 8.5	4 - 5.8 - 9.8	4.5 - 7 - 10.8	5.5 - 8 - 11.5	6 - 8.5 - 12.3	7.5 - 9.8 - 13.8	8.5 - 10.8 - 15	9.5 - 11.5 - 16.3	10.8 - 13.8 - 18.8

• Throw values are given for terminal velocities of .8, .50, and .3 m/s.
 • Throw Values are given for Isothermal Conditions
 • 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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