

Performance Data



American Louver Stratus Plaque Diffuser Table - Model STR-PQ-(SIZE)W

SIZE		Neck Velocity (fpm)	400	500	600	700	800	900	1000	1200	1400	1600	
6"	Area	CFM	79	98	118	137	157	177	196	236	275	314	
	Factor (Ak) 0.272	SP (in., wg)	0.003	0.004	0.006	0.008	0.011	0.013	0.017	0.024	0.032	0.042	
		NC	<15	<15	<15	<15	<15	<15	17	20	25	29	33
		Throw (Ft.)	<2,<2,<2	<2,<2,<2	<2,<2,<2	<2,<2,<2	<2,<2,3	<2,2,5	<2,3,7	<2,4,9	2,5,11	3,6,13	
8"	Area	CFM	140	175	209	244	279	314	349	419	489	559	
	Factor (Ak) 0.316	SP (in., wg)	0.005	0.007	0.011	0.015	0.019	0.024	0.030	0.043	0.058	0.076	
		NC	<15	<15	<15	<15	<15	20	24	29	34	38	
		Throw (Ft.)	<2,<2,<2	<2,<2,3	<2,<2,4	<2,<2,6	<2,2,8	<2,3,9	2,4,10	2,6,12	3,7,14	4,9,16	
10"	Area	CFM	218	273	327	382	436	491	545	654	764	873	
	Factor (Ak) 0.355	SP (in., wg)	0.011	0.017	0.025	0.034	0.045	0.057	0.070	0.100	0.137	0.179	
		NC	<15	<15	<15	17	21	25	28	34	40	44	
		Throw (Ft.)	<2,<2,6	<2,<2,9	<2,<2,10	2,3,12	3,5,13	3,6,14	4,7,15	4,10,17	5,11,18	6,13,20	
12"	Area	CFM	314	393	471	550	628	707	785	942	1100	1257	
	Factor (Ak) 0.391	SP (in., wg)	0.025	0.039	0.056	0.076	0.099	0.125	0.154	0.222	0.302	0.395	
		NC	<15	<15	16	22	26	30	34	41	46	>50	
		Throw (Ft.)	2,<2,11	3,2,14	4,5,16	5,7,18	6,9,19	6,10,20	7,11,21	7,15,23	8,16,25	9,18,27	
14"	Area	CFM	428	535	641	748	855	962	1069	1283	1497	1710	
	Factor (Ak) 0.424	SP (in., wg)	0.049	0.076	0.110	0.149	0.195	0.246	0.304	0.438	0.596	0.779	
		NC	<15	15	22	27	32	37	41	48	>50	>50	
		Throw (Ft.)	4,6,13	5,9,17	6,12,20	7,14,23	8,15,25	9,17,27	10,18,29	11,21,32	12,23,35	13,24,38	

- Note:
1. Performance Data is Based on ASHRAE 70-06
 2. CFM: Standard air density and isothermal conditions.
 3. Static Pressure (SP): Inches of water gauge.
 4. Neck Velocity: Velocity in feet per minute (fpm).
 5. Noise Criteria: NC Level is based on Room Attenuation of 10 db (Sound Power Level Re: 10-12 watts) with one diffuser operating.
 6. Terminal Velocity: Distance in feet from the outlet face at the terminal velocity of 150, 100, and 50 feet per minute (fpm).