

Saturn Plaque Diffuser								
MODEL	Duct Velocity Velocity Pressure	400 0.01	600 0.022	800 0.04	1000 0.062	1200 0.089	1400 0.122	1600 0.16
<b>SPD-04</b>	CFM	35	52	70	87	105	122	140
	Total Pressure	0.014	0.032	0.057	0.089	0.128	0.178	0.228
	NC	<20	<20	<20	<20	<20	<20	<20
	Radius of Diffusion	1-2-3	2-3-5	3-4-8	3-5-9	4-7-10	5-7-11	6-8-12
<b>SPD-06</b>	CFM	78	118	157	196	235	274	314
	Total Pressure	0.015	0.034	0.061	0.094	0.136	0.184	0.238
	NC	<20	<20	<20	<20	<20	22	26
	Radius of Diffusion	2-3-5	3-4-8	3-5-9	4-6-10	5-8-11	6-8-12	7-9-13
<b>SPD-08</b>	CFM	140	210	280	350	420	490	560
	Total Pressure	0.017	0.038	0.067	0.105	0.151	0.206	0.266
	NC	<20	<20	<20	<20	23	28	32
	Radius of Diffusion	2-3-6	3-5-10	4-7-11	6-8-13	7-10-14	8-11-15	9-12-16
<b>SPD-10</b>	CFM	218	327	436	545	654	763	873
	Total Pressure	0.018	0.04	0.072	0.112	0.161	0.22	0.286
	NC	<20	<20	<20	20	26	31	35
	Radius of Diffusion	3-5-9	4-6-13	6-9-14	7-10-16	8-11-17	10-13-19	11-14-21
<b>SPD-12</b>	CFM	314	471	628	785	942	1099	1256
	Total Pressure	0.02	0.044	0.078	0.122	0.175	0.252	0.306
	NC	<20	<20	<20	23	29	34	38
	Radius of Diffusion	4-6-12	5-7-15	7-11-17	8-12-18	10-14-21	12-16-23	13-17-25
<b>SPD-14</b>	CFM	428	641	855	1069	1283	1497	1710
	Total Pressure	0.025	0.057	0.1	0.157	0.219	0.302	0.396
	NC	<20	<20	21	29	35	40	44
	Radius of Diffusion	5-6-13	6-8-16	8-12-20	10-14-23	12-17-26	13-19-29	15-20-31
<b>SPD-16</b>	CFM	558	838	1117	1396	1675	1954	2234
	Total Pressure	0.035	0.078	0.14	0.222	0.319	0.432	0.556
	NC	<20	<20	27	35	41	46	50
	Radius of Diffusion	5-7-14	7-10-18	9-14-22	11-17-25	14-20-28	15-21-31	18-22-33
<b>SPD-20</b>	CFM	872	1308	1744	2180	2616	3052	3488
	Total Pressure	0.03	0.068	0.119	0.186	0.269	0.366	0.476
	NC	<20	<20	28	36	42	47	51
	Radius of Diffusion	6-9-17	9-13-25	11-18-28	14-21-32	18-24-35	20-26-38	22-28-41
<b>SPD-24</b>	CFM	1256	1885	2513	3141	3769	4397	5026
	Total Pressure	0.04	0.091	0.161	0.252	0.362	0.492	0.645
	NC	<20	21	30	38	44	49	53
	Radius of Diffusion	7-10-20	10-15-30	13-20-35	17-25-39	21-30-43	23-32-46	27-34-50

Performance data based on ASHRAE 70-91

**RADIUS OF DIFFUSION:**  
Horizontal distance (THROW) in feet from the Diffuser at which the maximum velocity has been reduced to specified terminal velocity (Vt).

**TERMINAL VELOCITY:** Maximum velocity (Vt) in feet per minute at the specified distance from the outlet face (THROW) 150 fpm, 100 fpm and 50 fpm respectively.

**AIRFLOW CFM:** Standard air density and isothermal conditions.

**TOTAL PRESSURE:** Inches of water gauge required.

**NOISE CRITERIA:** Noise criteria (NC) curve which is not exceeded with a Room Attenuation of 10db and based on Sound Power Level Re: 10-12 watts.