

Saturn Plaque Diffuser-Variable Pattern

Duct Velocity MODEL	Velocity Pressure	400 0.01	600 0.022	800 0.04	1000 0.062	1200 0.089	1400 0.122	1600 0.16
SPDV-04	CFM	35	52	70	87	105	122	140
	Total Pressure	0.012	0.026	0.047	0.075	0.104	0.146	0.188
	NC	<20	<20	<20	<20	<20	<20	<20
	Radius of Diffusion	0.5-1-2	1-2-3	2-3-5	2-3-6	3-4-7	3-5-8	4-6-9
	Vertical Projection	1-2	1-3	2-4	3-6	3-7	4-8	5-10
SPDV-06	CFM	78	118	157	196	235	274	314
	Total Pressure	0.013	0.028	0.05	0.079	0.113	0.153	0.203
	NC	<20	<20	<20	<20	<20	21	25
	Radius of Diffusion	2-3-4	2-3-5	3-4-7	3-4-8	3-5-9	4-6-10	5-7-12
	Vertical Projection	1-3	2-4	3-6	4-7	4-9	5-10	6-12
SPDV-08	CFM	140	210	280	350	420	490	560
	Total Pressure	0.013	0.029	0.053	0.082	0.118	0.162	0.211
	NC	<20	<20	<20	<20	<20	24	28
	Radius of Diffusion	2-3-5	2-3-6	3-4-8	4-6-10	4-7-11	5-8-12	5-9-13
	Vertical Projection	2-4	3-6	4-8	5-10	6-12	7-14	8-16
SPDV-10	CFM	218	327	436	545	654	763	873
	Total Pressure	0.014	0.03	0.054	0.084	0.12	0.165	0.218
	NC	<20	<20	<20	<20	22	26	31
	Radius of Diffusion	2-3-7	3-4-9	3-5-10	4-6-12	6-8-14	7-9-15	8-10-16
	Vertical Projection	2-5	4-7	5-10	6-12	7-15	9-17	10-19
SPDV-12	CFM	314	471	628	785	942	1099	1256
	Total Pressure	0.014	0.031	0.055	0.087	0.124	0.17	0.227
	NC	<20	<20	<20	<20	25	29	34
	Radius of Diffusion	3-4-8	4-6-12	5-8-13	6-10-15	7-11-16	8-12-18	9-13-20
	Vertical Projection	3-6	4-9	6-12	7-15	9-18	10-21	12-24
SPDV-14	CFM	428	641	855	1069	1283	1497	1710
	Total Pressure	0.015	0.032	0.058	0.09	0.129	0.177	0.234
	NC	<20	<20	<20	21	27	32	36
	Radius of Diffusion	3-5-9	5-7-13	6-9-15	7-11-17	8-12-19	9-15-23	10-16-23
	Vertical Projection	4-7	5-9	7-14	8-18	10-21	12-25	13-28
SPDV-16	CFM	558	838	1117	1396	1675	1954	2234
	Total Pressure	0.015	0.035	0.061	0.095	0.137	0.186	0.245
	NC	<20	<20	<20	25	31	36	40
	Radius of Diffusion	4-5-10	6-8-15	7-11-17	8-13-20	9-14-23	10-17-26	11-19-29
	Vertical Projection	5-8	6-12	8-15	9-19	11-24	13-26	15-31
SPDV-20	CFM	872	1308	1744	2100	2616	3052	3488
	Total Pressure	0.015	0.032	0.057	0.088	0.128	0.174	0.228
	NC	<20	<20	21	26	33	38	42
	Radius of Diffusion	5-7-12	8-10-19	9-14-22	10-16-25	12-19-29	13-22-33	14-24-37
	Vertical Projection	7-10	8-16	10-19	11-24	14-30	16-33	19-39
SPDV-24	CFM	1256	1885	2513	3141	3769	4397	5026
	Total Pressure	0.015	0.037	0.064	0.095	0.13	0.19	0.25
	NC	<20	<20	23	28	35	40	44
	Radius of Diffusion	6-8-15	9-12-23	11-16-28	12-19-31	14-24-36	15-27-40	17-29-45
	Vertical Projection	9-13	10-19	13-25	15-30	18-37	20-40	23-46

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.

VERTICAL PROJECTION: Vertical distance (THROW) in feet - minimum value is 20-degree heating to 0 fpm terminal velocity and maximum value is 20-degree cooling to 100 fpm terminal velocity.

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.

TOTAL PRESSURE: Inches of water gauge required.

AIRFLOW CFM: Standard air density and isothermal conditions.