

**DIFFUSER PERFORMANCE DATA**



**24" x 24" Face Size**

Neck size (Inches)	Neck velocity, FPM	400	500	600	700	800	900	1000	1200	1400	1600
	Velocity pressure, in.W.G.	0.01	0.016	0.022	0.031	0.04	0.05	0.062	0.09	0.122	0.16
6 Dia	Total pressure, in.W.G.	0.01	0.016	0.023	0.032	0.041	0.053	0.065	0.093	0.127	0.166
	Flow rate, CFM	78	98	118	137	157	176	196	235	274	314
	NC	<20	<20	<20	<20	<20	19	22	29	34	38
	Throw, Feet	2-4	2-4	3-5	3-6	4-6	4-7	4-7	5-8	6-9	7-9
8 Dia	Total pressure, in.W.G.	0.018	0.029	0.042	0.057	0.074	0.093	0.115	0.166	0.226	0.295
	Flow rate, CFM	140	175	209	244	279	314	349	419	489	558
	NC	<20	<20	<20	<20	19	23	27	33	38	43
	Throw, Feet	2-5	3-6	4-7	4-8	5-9	6-9	6-10	7-11	8-12	9-12
10 Dia	Total pressure, in.W.G.	0.029	0.045	0.065	0.088	0.115	0.146	0.18	0.259	0.353	0.461
	Flow rate, CFM	218	273	327	382	436	491	545	654	763	872
	NC	<20	<20	<20	18	22	26	30	36	41	46
	Throw, Feet	3-6	4-8	5-9	6-10	6-11	7-12	8-12	9-13	10-14	11-15
12 Dia	Total pressure, in.W.G.	0.041	0.065	0.093	0.127	0.166	0.21	0.259	0.373	0.508	0.664
	Flow rate, CFM	314	393	471	550	628	707	785	942	1099	1256
	NC	<20	<20	15	21	25	29	33	39	44	49
	Throw, Feet	4-8	5-10	6-11	7-12	8-13	9-14	10-15	11-16	12-17	13-19
14 Dia	Total pressure, in.W.G.	0.057	0.088	0.127	0.173	0.226	0.286	0.353	0.509	0.693	0.905
	Flow rate, CFM	428	535	641	748	855	962	1069	1283	1497	1710
	NC	<20	<20	18	23	27	31	35	41	46	51
	Throw, Feet	5-10	6-12	7-13	9-14	10-15	11-16	12-17	13-19	14-20	15-22
15 Dia	Total pressure, in.W.G.	0.065	0.101	0.146	0.199	0.259	0.328	0.405	0.584	0.794	1.037
	Flow rate, CFM	491	614	736	859	982	1104	1227	1472	1718	1963
	NC	<20	<20	19	24	28	32	36	42	47	52
	Throw, Feet	5-11	7-13	8-14	9-15	11-16	12-17	13-18	14-20	15-22	16-23

All pressures are in inches of water.  
Throw values are given for terminal velocities of 100 and 50

# SPCD24-D

SQUARE PLAQUE CEILING DIFFUSER  
WITH VOLUME CONTROL DAMPER



## PRODUCT DESCRIPTION

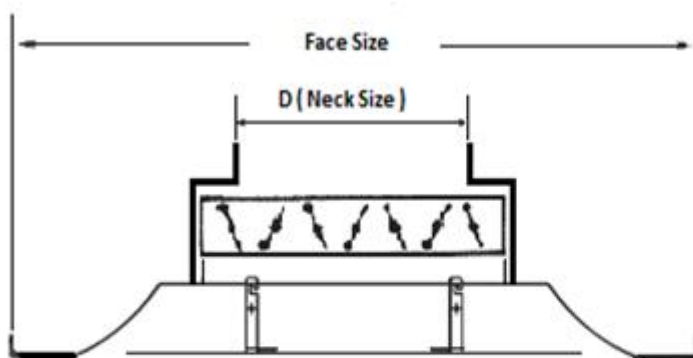
- ) Frame and diffuser plaque are extruded aluminum alloy and are polyester powder coated with a white finish.
- ) Frame thickness is 1.5 mm and diffuser plaque thickness is 2 mm.
- ) Diffuser plaque is removable for easy installation. It's held in place with four machine screws and spring steel clips which together center the plaque in the frame.
- ) The ceiling diffuser projects 3/16" from the mounting surface.
- ) The face size is 24 x 24 inch (600 x 600 mm), and neck (inlet) is available with different sizes.

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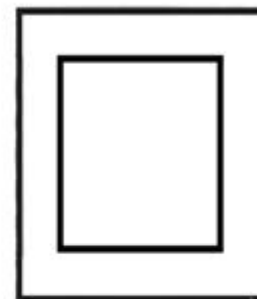
## SQUARE PLAQUE CEILING DIFFUSER WITH VOLUME CONTROL DAMPER



- ) The opposed blade damper section connects to the frame with screws and lever operated from the face of the unit.
- ) Standard finish white for the diffuser, Damper in black color. Painted under electrostatic polyester powder coated system. Other colors available on request. The polyester powder of highest quality are used to enhance the appearance of the units.
- ) Equalizing grid is provided as an option.
- ) Plenum box is an optional addition provided in order.
- ) Aluminum filter is an optional addition provided in order.



Front Veiw



Top Veiw