PERFORMANCE DATA

Ceiling Diffuser Directional Square - Supply

MODEL CDD-SQA

1 Slot 24 x 1 8 Inlet	CFM	50	100	150	200	250	300	350
	Pt	0.01	0.03	0.07	0.13	0.20	0.30	0.40
	Ps	0.007	0.024	0.058	0.109	0.168	0.254	0.337
	NC	<20	<20	22	28	33	38	41
	Throw	2-3-5	4-5-7	5-6-9	6-8-10	7-9-12	8-11-14	9-12-16
2 Slot 24 x 2 8 Inlet	CFM	100	150	200	250	300	350	400
	Pt	0.02	0.05	0.08	0.12	0.18	0.24	0.31
	Ps	0.014	0.038	0.059	0.088	0.134	0.177	0.227
	NC	<20	<20	22	28	33	38	41
	Throw	2-3-5	3-5-7	4-6-8	4-7-9	5-8-11	6-9-12	7-10-13
3 Slot 24 x 3 8 Inlet	CFM	150	200	250	300	350	400	450
	Pt	0.03	0.06	0.09	0.13	0.18	0.23	0.30
	Ps	0.018	0.039	0.058	0.084	0.117	0.147	0.194
	NC	<20	<20	25	30	34	38	41
	Throw	3-4-6	4-5-7	4-6-8	5-7-9	5-8-10	6-9-12	7-10-14
4 Slot 24 x 4 8 Inlet	CFM	200	250	300	350	400	450	500
	Pt	0.05	0.08	0.11	0.16	0.20	0.26	0.32
	Ps	0.029	0.048	0.064	0.097	0.117	0.154	0.195
	NC	<20	23	28	32	36	39	42
	Throw	3-4-9	3-5-7	4-6-8	5-7-10	5-8-11	6-9-12	6-10-13
4 Slot 24 x 4 10 Inlet	CFM	250	300	350	400	450	500	550
	Pt	0.061	0.085	0.123	0.151	0.196	0.247	0.298
	Ps	0.48	0.085	0.123	0.151	0.196	0.247	0.298
	NC	20	25	29	33	36	39	41
	Throw	3-5-7	4-6-8	5-7-10	5-8-11	6-9-12	6-10-13	7-10-14

PERFORMANCE NOTES FOR SERIES CDD-SQA

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM — *Cubic Feet per Minute (air)*

Throw — *Throw distance in feet at terminal velocities of 150fpm, 100fpm and 50fpm*

NC — *Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10^{-12} watts minus a 10dB room attenuation in all octave bands*

Ps — *Static pressure = Pt–Pv (inches of water column)*

Pt — *Total pressure (inches of water column)*

Pv — *Velocity pressure (inches of water column)*

fpm — *Velocity of air stream in Feet per Minute. To determine total pressure for other inlet sizes, divide the CFM by the sq footage of the inlet size (chart above). The result is the duct velocity in fpm. From the Pv chart, determine the Pv and add it to the Ps shown in the performance chart to determine the Pt*