

COLD AISLE DIFFUSER PERFORMANCE DATA
MODEL XG-5500CAD

		DAMPER OPEN						
Inlet Size	Neck Velocity	200	400	600	700	800	900	1000
	Velocity Pressure	0.002	0.010	0.022	0.031	0.040	0.050	0.062
15" x 15"	CFM	315	625	940	1095	1250	1405	1565
	Pt	0.006	0.024	0.055	0.075	0.098	0.123	0.153
	Throw*	1-2-6	4-6-11	6-9-14	7-10-14	8-11-15	9-12-16	10-13-17
	Throw (supply 20°F below conditioned area)	1-2-9	4-9-31	9-20-40	12-27-42	16-31-45	20-34-48	16-36-54
	Throw (supply 20°F above conditioned area)	1-2-6	3-6-22	6-14-27	8-19-29	11-22-32	14-23-33	17-24-35
	NC	-	-	-	17	24	33	39
18" x 18"	CFM	450	900	1350	1575	1800	2025	2250
	Pt	0.006	0.024	0.055	0.075	0.098	0.124	0.153
	Throw*	1-3-7	5-7-14	7-11-16	8-13-17	10-14-19	11-14-20	12-15-21
	Throw (supply 20°F below conditioned area)	1-3-11	5-11-36	11-24-47	14-35-50	19-36-54	24-41-58	30-43-60
	Throw (supply 20°F above conditioned area)	1-2-7	4-7-26	7-16-32	10-23-35	13-26-37	16-28-46	20-30-41
	NC	-	-	-	19	28	35	40

		DAMPER CLOSED						
Inlet Size	Neck Velocity	200	300	400	500	600	700	800
	Velocity Pressure	0.002	0.006	0.010	0.016	0.022	0.031	0.040
15" x 15"	CFM	200	300	400	500	600	700	800
	Pt	0.016	0.035	0.062	0.097	0.140	0.191	0.249
	Throw*	3-5-14	5-11-17	9-14-19	12-15-22	14-17-23	14-18-25	16-19-27
	NC	-	-	-	16	18	32	41
18" x 18"	CFM	340	505	675	845	1015	1180	1350
	Pt	0.016	0.035	0.062	0.098	0.141	0.190	0.249
	Throw*	3-6-16	6-13-20	11-16-23	14-18-26	16-25-29	18-22-31	19-23-32
	NC	-	-	-	17	22	33	42

PERFORMANCE NOTES FOR SERIES XG-5500CAD

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

DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

Pt Total pressure (inches of water column)

Throw* Non-isothermal horizontal throw (supply air temperature 15°F colder than average room temperature); values are for 150, 100 and 50fpm velocities

Throw Isothermal throw (supply air temperature the same as average room temperature); values are for 150, 100 and 50fpm velocities

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