

Diffuser Airflow Specifications

Model 24 Inch Square Ceiling Diffuser with 16 Inch Diameter Inlet
Ak= 0.714

Airflow, CFM	Pressure Loss (inches water gauge)	Throw (Feet)	NC	Slot Velocity (ft/min)
300	0.011	11.6	<5	420
400	0.018	13.7	<5	560
500	0.025	15.6	<5	700
600	0.033	17.3	11	840
700	0.042	18.9	16	980
800	0.052	20.5	20	1120
900	0.063	21.9	24	1261
1000	0.074	23.3	28	1401
1100	0.085	24.6	31	1541
1200	0.098	25.9	34	1681
1300	0.111	27.2	36	1821
1400	0.124	28.4	39	1961

Model 24 Inch Square Ceiling Diffuser with 10 Inch Diameter Inlet
Ak= 0.671

Airflow, CFM	Pressure Loss (inches water gauge)	Throw (Feet)	NC	Slot Velocity (ft/min)
100	0.000	2.5	<5	149
200	0.000	4.8	<5	298
300	0.000	7.0	<5	447
400	0.000	9.1	10	596
500	0.000	11.2	16	745
600	0.000	13.3	22	894
700	0.000	15.3	27	1043
800	0.000	17.4	31	1192
900	0.000	19.4	34	1341
1000	0.000	21.4	38	1490
1100	0.000	23.4	41	1639
1200	0.000	25.3	43	1788

Model 24 Inch Square Ceiling Diffuser with 6 Inch Diameter Inlet
Ak= 0.289

Airflow, CFM	Pressure Loss (inches water gauge)	Throw (Feet)	NC	Slot Velocity (ft/min)
100	0.000	5.9	7	346
150	0.000	8.0	16	519
200	0.000	9.9	22	692
250	0.000	11.8	28	865
300	0.000	13.5	32	1038
350	0.000	15.2	35	1211
400	0.000	16.8	38	1384
450	0.000	18.3	41	1557
500	0.000	19.8	43	1730
550	0.000	21.3	46	1903
600	0.000	22.7	48	2076
650	0.000	24.2	49	2249

The throw distance listed above represents a terminal velocity of 50 feet per minute.
The 10 inch and 6 inch diameter inlets were transitioned to the 16 inch diameter inlet.