

PERFORMANCE DATA - ROUND EGGCRATE GRILLE - MODEL AREC

MODEL	Duct Velocity Velocity Pressure	400 0.010	600 0.022	800 0.040	1000 0.062	1200 0.090	1400 0.122	1600 0.160
AREC-06	CFM	79	118	157	196	236	275	314
	S.P. (Return)	-0.040	-0.091	-0.162	-0.255	-0.363	-0.500	-0.652
	NC (Return)	<15	22	32	39	45	50	54
	S.P. (Supply)	0.015	0.034	0.053	0.096	0.133	0.183	0.233
	NC (Supply)	<15	<15	21	29	35	41	46
AREC-08	Throw (Supply)	4-18-15	6-12-21	8-14-24	10-16-28	13-21-30	15-22-32	17-24-34
	CFM	140	209	279	349	419	489	559
	S.P. (Return)	-0.036	-0.080	-0.142	-0.223	-0.320	-0.432	-0.568
	NC (Return)	<15	22	31	38	44	49	53
	S.P. (Supply)	0.012	0.027	0.048	0.076	0.109	0.148	0.192
AREC-10	NC (Supply)	<15	<15	19	27	33	39	44
	Throw (Supply)	5-10-20	8-16-27	11-21-32	14-25-36	17-28-39	20-30-41	21-32-45
	CFM	218	327	436	545	655	764	873
	S.P. (Return)	-0.033	-0.073	-0.130	-0.203	-0.293	-0.397	-0.522
	NC (Return)	<15	22	31	38	44	48	52
AREC-12	S.P. (Supply)	0.010	0.024	0.042	0.066	0.095	0.130	0.169
	NC (Supply)	<15	<15	18	26	32	38	42
	Throw (Supply)	6-12-24	9-17-32	14-26-37	17-31-45	21-34-47	25-37-52	29-40-56
	CFM	314	471	628	786	943	1100	1257
	S.P. (Return)	-0.031	-0.070	-0.123	-0.194	-0.278	-0.384	-0.495
AREC-14	NC (Return)	<15	22	32	38	45	49	53
	S.P. (Supply)	0.010	0.022	0.038	0.061	0.086	0.119	0.154
	NC (Supply)	<15	<15	18	25	31	37	41
	Throw (Supply)	7-15-30	12-24-40	16-33-47	20-37-53	25-41-59	29-45-65	33-48-74
	CFM	428	641	855	1069	1283	1497	1711
AREC-16	S.P. (Return)	-0.030	-0.067	-0.119	-0.186	-0.267	-0.365	-0.475
	NC (Return)	<15	23	32	39	45	50	54
	S.P. (Supply)	0.009	0.021	0.036	0.055	0.083	0.111	0.145
	NC (Supply)	<15	<15	18	25	31	37	41
	Throw (Supply)	8-18-37	14-28-47	18-38-55	23-44-61	30-48-70	34-52-74	38-56-83
AREC-18	CFM	559	838	1117	1396	1676	1955	2234
	S.P. (Return)	-0.029	-0.065	-0.116	-0.181	-0.260	-0.354	-0.465
	NC (Return)	<15	23	33	40	45	50	54
	S.P. (Supply)	0.009	0.020	0.034	0.055	0.078	0.106	0.138
	NC (Supply)	<15	<15	18	25	31	37	41
AREC-20	Throw (Supply)	10-20-40	15-30-53	22-44-65	28-50-72	34-54-80	40-60-85	45-64-90
	CFM	707	1060	1414	1767	2121	2474	2828
	S.P. (Return)	-0.028	-0.064	-0.114	-0.177	-0.255	-0.346	-0.454
	NC (Return)	<15	23	33	40	45	50	54
	S.P. (Supply)	0.008	0.020	0.033	0.052	0.075	0.103	0.133
AREC-22	NC (Supply)	<15	<15	19	26	32	38	42
	Throw (Supply)	11-22-44	18-36-61	25-50-72	31-57-80	40-63-89	45-67-95	50-71-101
	CFM	873	1309	1746	2182	2618	3055	3491
	S.P. (Return)	-0.028	-0.063	-0.111	-0.174	-0.250	-0.342	-0.446
	NC (Return)	<15	25	35	41	47	52	56
AREC-24	S.P. (Supply)	0.008	0.019	0.033	0.051	0.073	0.099	0.128
	NC (Supply)	<15	<15	19	26	32	38	42
	Throw (Supply)	12-24-49	20-40-68	27-53-80	35-63-89	44-68-99	51-74-105	56-78-112
	CFM	1056	1584	2112	2640	3168	3696	4224
	S.P. (Return)	-0.027	-0.061	-0.110	-0.171	-0.246	-0.336	-0.439
AREC-24	NC (Return)	<15	25	35	41	47	52	56
	S.P. (Supply)	0.008	0.018	0.031	0.049	0.070	0.096	0.125
	NC (Supply)	<15	<15	20	27	33	39	43
	Throw (Supply)	13-27-54	22-44-74	30-57-85	37-68-98	47-76-110	57-85-120	60-87-123
	CFM	1257	1885	2514	3142	3770	4399	5027
AREC-24	S.P. (Return)	-0.027	-0.061	-0.108	-0.170	-0.244	-0.331	-0.435
	NC (Return)	<15	25	35	41	47	52	56
	S.P. (Supply)	0.008	0.018	0.031	0.049	0.070	0.094	0.123
	NC (Supply)	<15	<15	21	28	35	40	44
	Throw (Supply)	14-29-60	24-48-81	33-66-95	41-75-106	50-84-116	58-88-124	66-95-130

Performance data based on ASHRAE 70-91

Throw: Distance in feet from the nozzle discharge 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 is listed at 200 fpm, 100 fpm and 50 fpm respectively.

Airflow CFM: Standard air density and isothermal conditions.

Static Pressure: Inches of water gauge.

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.