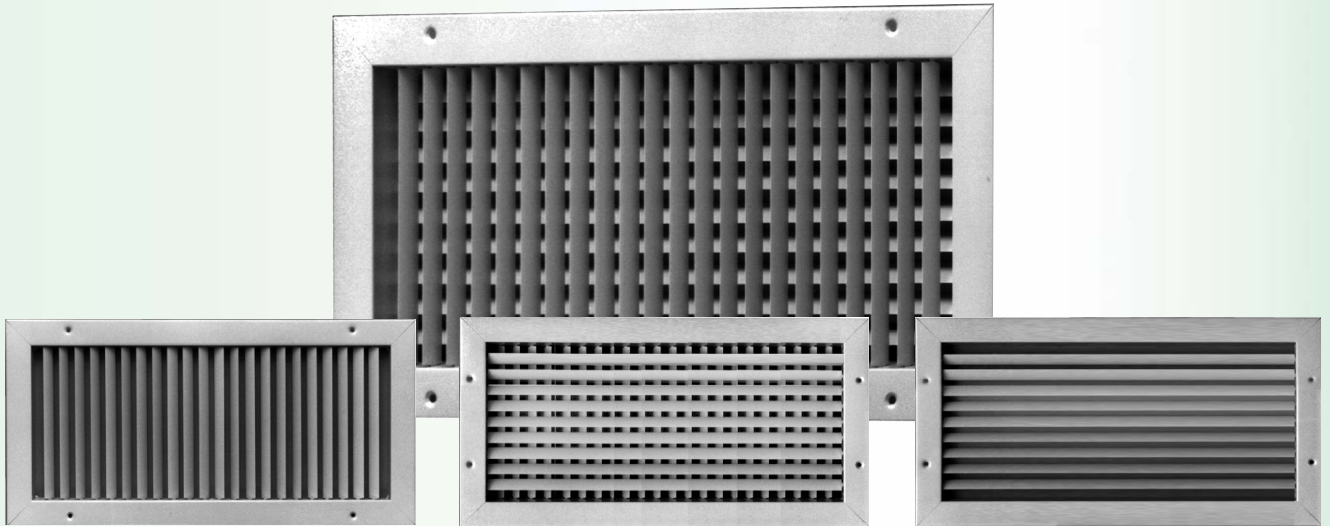




GRILLES

271 RL

272 RL

271 RS

272 RS



AeroBlade Grilles | Supply | 3/4-inch Spacing | Description

AeroBlade Supply Grilles

3/4-inch Spacing • Aluminum

271(RL/RS) • Single Deflection

272(RL/RS) • Double Deflection

Single Deflection Models:

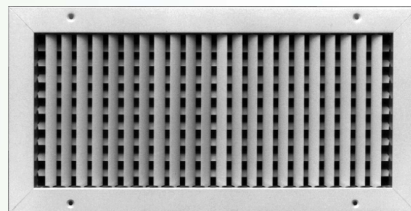
271RL

271RS

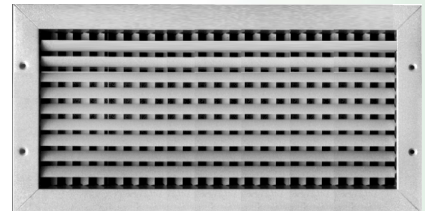
Double Deflection Models:

272RL

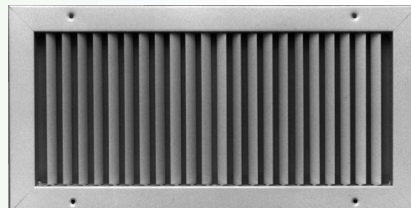
272RS



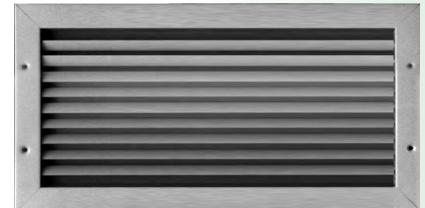
272 RS



272 RL



271 RS



271 RL

271RS

- 3/4-inch blade spacing.
- Single deflection.
- Individually adjustable airfoil blades.
- Blades parallel to the short dimension.
- -20gauge border.

272RS

- 3/4-inch blade spacing.
- Double deflection.
- Individually adjustable airfoil blades.
- Front blades parallel to the short dimension.
- -20gauge border.

271RL

- Same as 271RS with blades parallel to the long dimension.

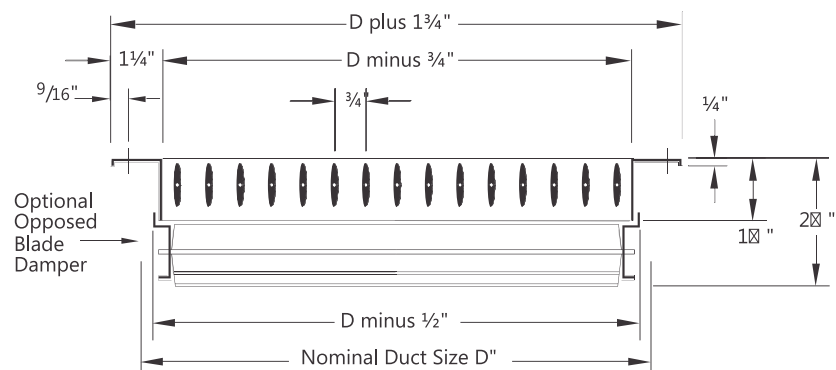
272RL

- Same as 272RS with front blades parallel to the long dimension.

These Products Include:

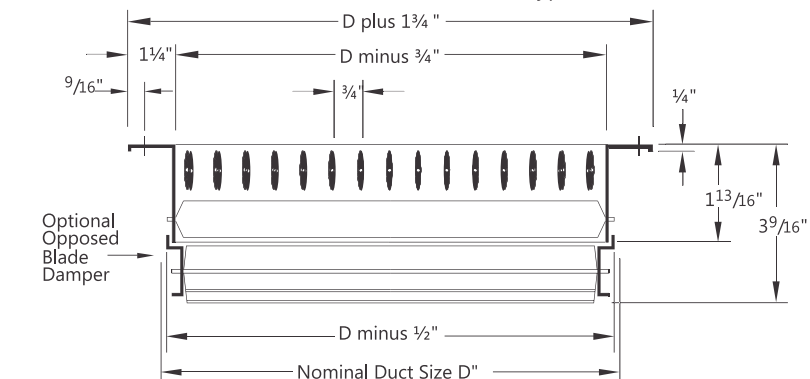
- Material: Heavy Extruded Aluminum.
- 26# White Finish.
- Available Border Types:
1# - Surface Mount.
- Countersunk Screw Holes.
- 8# x 1 1/4-inch Long Phillips Flat Head Sheet Metal Screws, Painted White.
- Optional Steel or Aluminum Opposed-Blade Damper.

Single Deflection Models: 271RL/271RS • Border Type 1



Available sizes (D" x D") are 6 x 4 inches through 48 x 48 inches in -2inch increments. Odd and fractional sizes are available at additional cost.

Double Deflection Models: 272RL/272RS • Border Type 1



Available sizes (D" x D") are 6 x 4 inches through 48 x 48 inches in -2inch increments. Odd and fractional sizes are available at additional cost.





AeroBlade Grilles | Supply | 3/4-inch Spacing | Description

AeroBlade Supply Grilles (continued)

3/4-inch Spacing • Steel

271(FL/FS) • Single Deflection

272(FL/FS) • Double Deflection

Single Deflection Models:

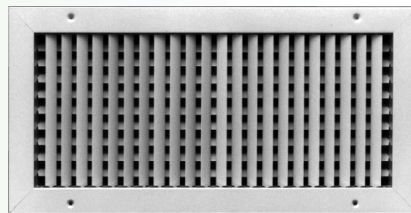
271FL

271FS

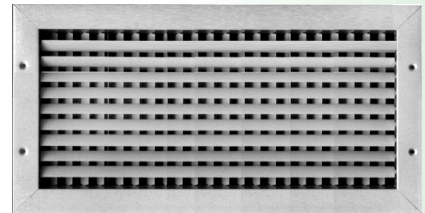
Double Deflection Models:

272FL

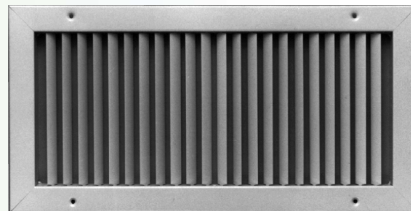
272FS



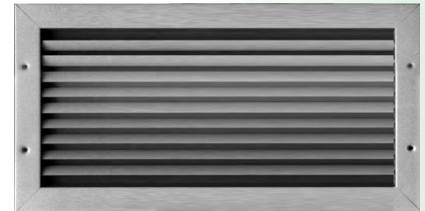
272 RS



272 RL



271 RS



271 RL

271FS

- 3/4-inch blade spacing.
- Single deflection.
- Individually adjustable airfoil blades.
- Blades parallel to the short dimension.
- Extruded aluminum border.

272FS

- 3/4-inch blade spacing.
- Double deflection.
- Individually adjustable airfoil blades.
- Front blades parallel to the short dimension.
- Extruded aluminum border.

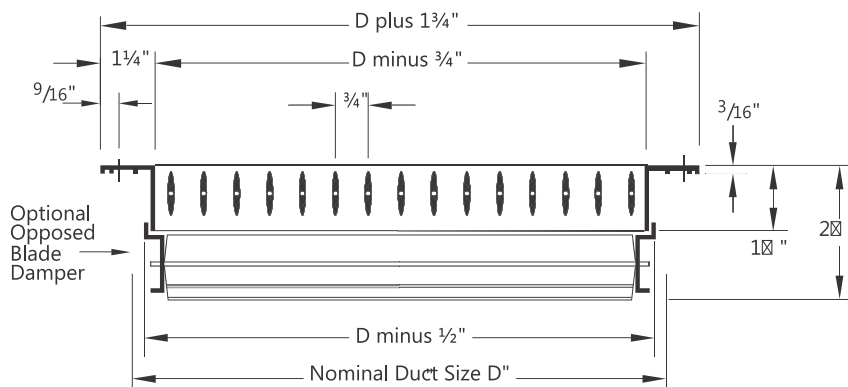
271FL

- Same as 271FS with Blades Parallel to the Long Dimension.

272FL

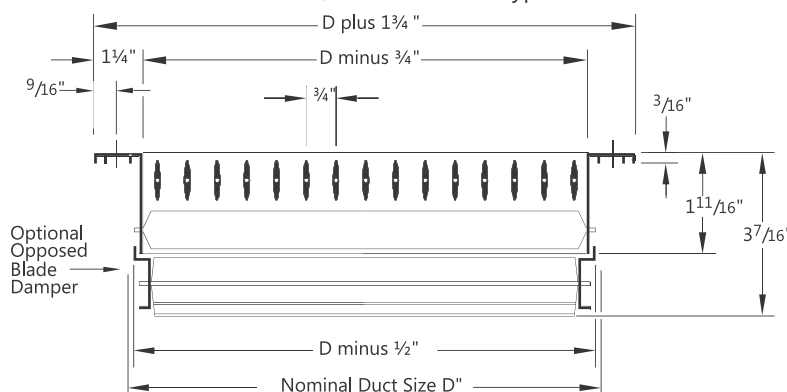
- Same as 272FS with front blades parallel to the long dimension.

Single Deflection Models: 271FL/271FS • Border Type 1



Available sizes (D" x D") are 6 x 4 inches through 48 x 48 inches in -2inch increments. Odd and fractional sizes are available at additional cost.

Double Deflection Models: 272FL/272FS • Border Type 1



Available sizes (D" x D") are 6 x 4 inches through 48 x 48 inches in -2inch increments. Odd and fractional sizes are available at additional cost.

These Products Include:

- Material: Steel Border with Extruded Aluminum Blades.
- Welded Border.
- 26# White Finish.
- Available Border Types: 1# - Sur face Mount.
- Countersunk Screw Holes.
- 8# x 1 1/4-inch Long Ph illips Flat Head Sheet Metal Screws, Painted White.
- Optional Steel-Opposed Blade Damper.





AeroBlade Grilles | Supply | Performance Data

Performance Data

Models: 272 RL - 272 RS - 272 FL - 272 FS

Performance based on nominal sizes shown in bold.

Models: 272 RE - 272 RG - 272 LE - 272 FS									NC 20	NC 30	NC 40	
Performance based on nominal sizes shown in bold.												
Nom. Duct Size (in.)	Nom. Duct Area (ft ²)	Core Area (ft ²)	Core Vel.	300	400	500	600	700	800	1000	1200	1400
			Vel. Press.	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122
			°0	0.010	0.017	0.027	0.038	0.052	0.068	0.106	0.153	0.208
			°22.5	0.011	0.019	0.030	0.043	0.058	0.076	0.118	0.171	0.232
Press.	°45	0.016	0.029	0.045	0.065	0.089	0.116	0.181	0.260	0.354		
6x6	0.25	0.19	cfm	57	76	95	114	133	152	190	228	266
			NC	-	-	-	11	15	19	26	31	36
			°0	14-7-5	16-10-7	18-12-8	20-14-10	21-15-12	23-16-13	25-18-15	28-20-16	30-21-17
			Throw °22.5 (ft) °45	11-6-4 6-3-2	12-8-5 7-4-3	14-10-6 8-6-4	15-11-8 9-6-4	16-12-9 10-7-5	18-12-10 10-7-6	20-14-11 11-8-7	22-15-12 12-9-7	23-16-13 13-10-8
8x6	0.33	0.26	cfm	78	104	130	156	182	208	260	312	364
			NC	-	-	-	12	16	20	27	33	37
			°0	16-9-5	19-12-8	21-14-10	23-16-12	25-18-13	27-19-15	30-21-17	32-23-19	35-25-20
			Throw °22.5 (ft) °45	13-7-4 7-4-2	15-9-6 8-5-3	16-11-7 9-6-4	18-13-9 10-7-5	19-14-10 11-8-6	21-15-12 12-8-7	23-16-13 13-9-8	25-18-15 15-10-8	27-19-16 16-11-9
10x6	0.42	0.34	cfm	102	136	170	204	238	272	340	408	476
			NC	-	-	-	13	18	22	28	34	38
			°0	19-10-6	21-13-9	24-17-11	26-19-13	28-20-15	30-21-18	34-24-20	37-26-21	40-28-23
			Throw °22.5 (ft) °45	14-8-5 8-4-3	17-10-7 10-6-4	19-13-9 11-7-5	20-14-10 12-8-6	22-16-12 13-9-7	23-17-14 14-10-8	26-19-15 15-11-9	29-20-17 17-12-10	31-22-18 18-13-10
8x8	0.44	0.37	cfm	111	148	185	222	259	296	370	444	518
			NC	-	-	-	13	18	22	29	34	39
			°0	19-10-6	22-14-9	25-17-11	27-19-14	30-21-16	32-22-18	35-25-20	39-27-22	42-30-24
			Throw °22.5 (ft) °45	15-8-5 9-5-3	17-11-7 10-6-4	19-13-9 11-8-5	21-15-11 12-9-6	23-16-12 13-9-7	25-17-14 14-10-8	27-19-16 16-11-9	30-21-17 17-12-10	32-23-19 19-13-11
12x6	0.50	0.41	cfm	123	164	205	246	287	328	410	492	574
			NC	-	-	-	14	18	22	29	34	39
			°0	20-11-7	24-15-10	26-18-12	29-20-15	31-22-17	33-24-19	37-26-21	41-29-24	44-31-25
			Throw °22.5 (ft) °45	16-8-5 9-5-3	18-11-7 11-7-4	20-14-9 12-8-5	22-16-11 13-9-7	24-17-13 14-10-8	26-18-15 15-11-9	29-20-17 17-12-10	32-22-18 18-13-11	34-24-20 20-14-11
14x6	0.58	0.48	cfm	144	192	240	288	336	384	480	576	672
			NC	-	-	-	14	19	23	30	35	40
			°0	22-12-7	25-16-10	28-20-13	31-22-16	34-24-18	36-25-21	40-28-23	44-31-25	48-34-28
			Throw °22.5 (ft) °45	17-9-6 10-5-3	20-12-8 11-7-5	22-15-10 13-9-6	24-17-12 14-10-7	26-18-14 15-11-8	28-20-16 16-11-9	31-22-18 18-13-10	34-24-20 20-14-11	37-26-21 21-15-12
16x6 12x8	0.67	0.57	cfm	171	228	285	342	399	456	570	684	798
			NC	-	-	-	15	20	24	30	36	40
			°0	24-13-8	28-17-11	31-21-14	34-24-17	37-26-20	39-28-23	44-31-25	48-34-28	52-37-30
			Throw °22.5 (ft) °45	19-10-6 11-6-4	22-13-9 12-8-5	24-17-11 14-10-6	26-19-13 15-11-8	28-20-15 17-12-9	30-22-18 18-12-10	34-24-20 20-14-11	37-26-22 22-15-12	40-28-23 23-17-13
10x10	0.69	0.59	cfm	177	236	295	354	413	472	590	708	826
			NC	-	-	-	15	20	24	31	36	41
			°0	24-13-8	28-17-12	32-22-14	35-24-17	37-26-20	40-28-23	45-32-26	49-35-28	53-37-31
			Throw °22.5 (ft) °45	19-10-6 11-6-4	22-13-9 13-8-5	24-17-11 14-10-7	27-19-13 16-11-8	29-20-16 17-12-9	31-22-18 18-13-10	35-24-20 20-14-12	38-27-22 22-16-13	41-29-24 24-17-14
18x6	0.75	0.63	cfm	189	252	315	378	441	504	630	756	882
			NC	-	-	-	16	20	24	31	36	41
			°0	25-13-8	29-18-12	33-22-15	36-25-18	39-27-21	41-29-24	46-33-27	51-36-29	55-39-32
			Throw °22.5 (ft) °45	20-10-6 11-6-4	23-14-9 13-8-5	25-17-12 15-10-7	28-20-14 16-11-8	30-21-16 17-12-9	32-23-18 19-13-11	36-25-21 21-15-12	39-28-23 23-16-13	42-30-24 25-17-14
20x6 12x10	0.83	0.72	cfm	216	288	360	432	504	576	720	864	1008
			NC	-	-	11	16	21	25	31	37	41
			°0	27-14-9	31-19-13	35-24-16	38-27-19	41-29-22	44-31-25	49-35-28	54-38-31	58-41-34
			Throw °22.5 (ft) °45	21-11-7 12-6-4	24-15-10 14-9-6	27-19-12 16-11-7	30-21-15 17-12-9	32-23-17 19-13-10	34-24-20 20-14-11	38-27-22 22-16-13	42-30-24 24-17-14	45-32-26 26-19-15
22x6	0.92	0.77	cfm	231	308	385	462	539	616	770	924	1078
			NC	-	-	11	16	21	25	32	37	42
			°0	28-15-9	32-20-13	36-25-17	40-28-20	43-30-23	46-32-26	51-36-29	56-40-32	60-43-35
			Throw °22.5 (ft) °45	22-12-7 13-7-4	25-15-10 15-9-6	28-19-13 16-11-7	31-22-15 18-13-9	33-23-18 19-14-10	35-25-20 21-15-12	40-28-23 23-16-13	43-31-25 25-18-15	47-33-27 27-19-16
24x6 18x8 12x12	1.00	0.88	cfm	264	352	440	528	616	704	880	1056	1232
			NC	-	-	11	17	22	26	32	38	42
			°0	30-16-10	34-21-14	39-27-18	42-30-21	46-32-25	49-34-28	55-39-31	60-42-34	65-46-37
			Throw °22.5 (ft) °45	23-12-8 13-7-4	27-16-11 16-10-6	30-21-14 17-12-8	33-23-16 19-13-10	35-25-19 21-15-11	38-27-22 22-16-13	42-30-24 25-17-14	46-33-27 27-19-16	50-35-29 29-21-17
30x6 18x10	1.25	1.11	cfm	333	444	555	666	777	888	1110	1332	1554
			NC	-	-	12	18	23	27	33	39	43
			°0	34-18-11	39-24-16	43-30-20	47-34-24	51-36-28	55-39-32	61-43-35	67-47-39	72-51-42
			Throw °22.5 (ft) °45	26-14-9 15-8-5	30-18-12 17-11-7	34-23-15 19-13-9	37-26-18 21-15-11	40-28-22 23-16-13	42-30-25 25-17-14	47-34-27 28-19-16	52-37-30 30-21-17	56-40-32 33-23-19



AeroBlade Grilles | Supply | Performance Data

Performance Data

Models: 272 RL - 272 RS - 272 FL - 272 FS

Performance based on nominal sizes shown in bold.

Nom. Duct Size (in.)	Nom. Duct Area (ft ²)	Core Area (ft ²)	NC 20									
			NC 30									
			NC 40									
			Core Vel.	300	400	500	600	700	800	1000	1200	1400
			Vel. Press.	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122
			°0	0.010	0.017	0.027	0.038	0.052	0.068	0.106	0.153	0.208
			Total °22.5	0.011	0.019	0.030	0.043	0.058	0.076	0.118	0.171	0.232
			Press. °45	0.016	0.029	0.045	0.065	0.089	0.116	0.181	0.260	0.354
			cfm	366	488	610	732	854	976	1220	1464	1708
			NC	-	-	13	18	23	27	34	39	44
			°0	35-19-12	41-25-17	45-31-21	50-35-25	54-38-29	57-41-33	64-45-37	70-50-41	76-54-44
			Throw °22.5	27-15-9	31-19-13	35-24-16	39-27-19	42-29-23	45-31-26	50-35-29	55-39-31	59-42-34
			(ft) °45	16-8-5	18-11-8	20-14-9	22-16-11	24-17-13	26-18-15	29-20-17	32-22-18	34-24-20
			cfm	405	540	675	810	945	1080	1350	1620	1890
			NC	-	-	13	19	23	27	34	39	44
			°0	37-20-12	43-26-18	48-33-22	52-37-26	57-40-31	60-43-35	68-48-39	74-52-43	80-57-46
			Throw °22.5	29-15-9	33-20-14	37-25-17	41-29-20	44-31-24	47-33-27	52-37-30	57-41-33	62-44-36
			(ft) °45	17-9-5	19-12-8	21-15-10	24-17-12	25-18-14	27-19-16	30-21-18	33-24-19	36-25-21
			cfm	411	548	685	822	959	1096	1370	1644	1918
			NC	-	-	13	19	23	27	34	39	44
			°0	37-20-12	43-27-18	48-33-22	53-37-27	57-40-31	61-43-35	68-48-39	75-53-43	81-57-46
			Throw °22.5	29-15-9	33-21-14	37-26-17	41-29-21	44-31-24	47-33-27	53-37-30	58-41-33	62-44-36
			(ft) °45	17-9-6	19-12-8	22-15-10	24-17-12	26-18-14	27-19-16	31-22-18	34-24-19	36-26-21
			cfm	447	596	745	894	1043	1192	1490	1788	2086
			NC	-	-	14	19	24	28	34	40	44
			°0	39-21-13	45-28-18	50-35-23	55-39-28	59-42-32	63-45-37	71-50-41	78-55-45	84-59-48
			Throw °22.5	30-16-10	35-21-14	39-27-18	43-30-21	46-33-25	49-35-28	55-39-32	60-43-35	65-46-38
			(ft) °45	17-9-6	20-12-8	23-16-10	25-17-12	27-19-15	29-20-16	32-23-18	35-25-20	38-27-22
			cfm	477	636	795	954	1113	1272	1590	1908	2226
			NC	-	-	14	19	24	28	35	40	45
			°0	40-21-13	46-29-19	52-36-24	57-40-29	61-43-33	66-46-38	73-52-42	80-57-46	87-61-50
			Throw °22.5	31-17-10	36-22-15	40-28-18	44-31-22	48-34-26	51-36-29	57-40-33	62-44-36	67-48-39
			(ft) °45	18-10-6	21-13-9	23-16-11	26-18-13	28-20-15	30-21-17	33-23-19	36-26-21	39-28-23
			cfm	486	648	810	972	1134	1296	1620	1944	2268
			NC	-	-	14	19	24	28	35	40	45
			°0	41-22-13	47-29-19	52-36-24	57-41-29	62-44-34	66-47-38	74-52-43	81-57-47	88-62-51
			Throw °22.5	31-17-10	36-22-15	41-28-19	44-31-22	48-34-26	51-36-30	57-41-33	63-44-36	68-48-39
			(ft) °45	18-10-6	21-13-9	24-16-11	26-18-13	28-20-15	30-21-17	33-24-19	36-26-21	39-28-23
			cfm	546	728	910	1092	1274	1456	1820	2184	2548
			NC	-	-	15	20	25	29	35	41	45
			°0	43-23-14	50-31-20	55-38-25	61-43-31	66-46-36	70-50-41	78-55-45	86-61-50	93-66-54
			Throw °22.5	33-18-11	38-24-16	43-30-20	47-33-24	51-36-28	54-38-31	61-43-35	67-47-38	72-51-42
			(ft) °45	19-10-6	22-14-9	25-17-11	27-19-14	30-21-16	32-22-18	35-25-20	39-27-22	42-30-24
			cfm	621	828	1035	1242	1449	1656	2070	2484	2898
			NC	-	-	15	21	25	29	36	41	46
			°0	46-24-15	53-33-22	59-41-27	65-46-33	70-49-38	75-53-43	84-59-48	92-65-53	99-70-57
			Throw °22.5	36-19-12	41-25-17	46-32-21	50-36-25	54-38-29	58-41-33	65-46-37	71-50-41	77-54-44
			(ft) °45	21-11-7	24-15-10	27-18-12	29-21-15	31-22-17	34-24-19	38-27-22	41-29-24	45-31-26
			cfm	642	856	1070	1284	1498	1712	2140	2568	2996
			NC	-	-	15	21	25	29	36	41	46
			°0	47-25-15	54-33-22	60-41-28	66-47-33	71-50-39	76-54-44	85-60-49	93-66-54	101-71-58
			Throw °22.5	36-19-12	42-26-17	47-32-21	51-36-26	55-39-30	59-42-34	66-47-38	72-51-42	78-55-45
			(ft) °45	21-11-7	24-15-10	27-19-12	30-21-15	32-23-17	34-24-20	38-27-22	42-30-24	45-32-26
			cfm	687	916	1145	1374	1603	1832	2290	2748	3206
			NC	-	-	15	21	26	30	36	42	46
			°0	48-26-16	56-34-23	62-43-29	68-48-34	74-52-40	79-56-45	88-62-51	96-68-56	104-74-60
			Throw °22.5	37-20-12	43-27-18	48-33-22	53-37-27	57-40-31	61-43-35	68-48-39	75-53-43	81-57-47
			(ft) °45	22-12-7	25-15-10	28-19-13	31-22-15	33-23-18	35-25-20	40-28-23	43-31-25	47-33-27
			cfm	738	984	1230	1476	1722	1968	2460	2952	3444
			NC	-	-	16	21	26	30	36	42	47
			°0	50-27-16	58-36-24	64-44-30	71-50-36	76-54-41	82-58-47	91-64-53	100-71-58	108-76-62
			Throw °22.5	39-21-13	45-28-18	50-34-23	55-39-28	59-42-32	63-45-36	71-50-41	77-55-45	84-59-48
			(ft) °45	22-12-7	26-16-11	29-20-13	32-22-16	34-24-19	37-26-21	41-29-24	45-32-26	49-34-28
			cfm	771	1028	1285	1542	1799	2056	2570	3084	3598
			NC	-	-	16	21	26	30	37	42	47
			°0	51-27-17	59-36-24	66-45-30	72-51-36	78-55-42	83-59-48	93-66-54	102-72-59	110-78-64
			Throw °22.5	40-21-13	46-28-19	51-35-23	56-40-28	60-43-33	65-46-37	72-51-42	79-56-46	85-60-49
			(ft) °45	23-12-8	27-16-11	30-20-14	32-23-16	35-25-19	38-27-22	42-30-24	46-32-27	50-35-29
			cfm	825	1100	1375	1650	1925	2200	2750	3300	3850
			NC	-	-	16	22	26	30	37	42	47
			°0	53-28-17	61-38-25	68-47-31	75-53-38	81-57-44	86-61-50	96-68-56	106-75-61	114-81-66
			Throw °22.5	41-22-13	47-29-19	53-36-24	58-41-29	63-44-34	67-47-39	75-53-43	82-58-47	88-63-51
			(ft) °45	24-13-8	27-17-11	31-21-14	34-24-17	36-26-20	39-27-22	43-31-25	48-34-27	51-36-30

- Performance notes appear at end of table.
- See the table, Correction Factors for Various Models to determine appropriate factor.



AeroBlade Grilles | Supply | Performance Data

Performance Data

Models: 272 RL - 272 RS - 272 FL - 272 FS

Performance based on nominal sizes shown in bold.

Nom. Duct Size (in.)	Nom. Duct Area (ft ²)	Core Area (ft ²)	NC 20				NC 30		NC 40		NC 50	
			Core Vel.	300	400	500	600	700	800	1000	1200	1400
48x10 30x16 24x20	3.33	3.11	Vel. Press.	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122
			°0	0.010	0.017	0.027	0.038	0.052	0.068	0.106	0.153	0.208
			°22.5	0.011	0.019	0.030	0.043	0.058	0.076	0.118	0.171	0.232
			°45	0.016	0.029	0.045	0.065	0.089	0.116	0.181	0.260	0.354
			cfm	933	1244	1555	1866	2177	2488	3110	3732	4354
22x22	3.36	3.14	NC	-	-	17	22	27	31	37	43	48
			°0	56-30-18	65-40-27	72-50-33	79-56-40	86-61-47	92-65-53	103-72-59	112-79-65	121-86-70
			Throw °22.5 (ft)	44-23-14	50-31-21	56-39-26	62-44-31	66-47-36	71-50-41	79-56-46	87-62-50	94-66-54
			°45	25-13-8	29-18-12	33-22-15	36-25-18	39-27-21	41-29-24	46-33-27	51-36-29	55-39-32
			cfm	942	1256	1570	1884	2198	2512	3140	3768	4396
42x12 36x14	3.50	3.22	NC	-	-	17	22	27	31	38	43	48
			°0	57-30-19	66-41-27	74-51-34	81-57-41	87-62-47	93-66-54	104-74-60	114-81-66	123-87-71
			Throw °22.5 (ft)	44-24-15	51-31-21	57-39-26	63-44-31	68-48-37	72-51-42	81-57-47	89-63-51	96-68-55
			°45	26-14-8	30-18-12	33-23-15	36-26-18	39-28-21	42-30-24	47-33-27	51-36-30	56-39-32
			cfm	966	1288	1610	1932	2254	2576	3220	3864	4508
24x22	3.67	3.43	NC	-	-	17	23	27	31	38	43	48
			°0	59-31-19	68-42-28	76-52-35	83-59-42	90-64-49	96-68-56	108-76-62	118-83-68	127-90-74
			Throw °22.5 (ft)	46-24-15	53-33-22	59-41-27	65-46-33	70-49-38	75-53-43	83-59-48	91-65-53	99-70-57
			°45	27-14-9	31-19-13	34-24-16	38-27-19	41-29-22	43-31-25	48-34-28	53-38-31	57-41-33
			cfm	1029	1372	1715	2058	2401	2744	3430	4116	4802
30x18	3.75	3.5	NC	-	-	17	23	27	31	38	43	48
			°0	60-32-20	69-42-28	77-53-35	84-60-42	91-64-49	97-69-56	109-77-63	119-84-69	129-91-74
			Throw °22.5 (ft)	46-25-15	53-33-22	60-41-27	65-46-33	71-50-38	75-53-44	84-60-49	92-65-53	100-71-58
			°45	27-14-9	31-19-13	35-24-16	38-27-19	41-29-22	44-31-25	49-35-28	54-38-31	58-41-33
			cfm	1050	1400	1750	2100	2450	2800	3500	4200	4900
48x12 36x16 24x24	4.00	3.75	NC	-	-	18	23	28	32	38	44	48
			°0	62-33-20	71-44-29	80-55-37	87-62-44	94-67-51	101-71-58	113-80-65	123-87-71	133-94-77
			Throw °22.5 (ft)	48-25-16	55-34-23	62-42-28	68-48-34	73-52-40	78-55-45	87-62-50	96-68-55	103-73-60
			°45	28-15-9	32-20-13	36-25-16	39-28-20	42-30-23	45-32-26	51-36-29	55-39-32	60-42-35
			cfm	1125	1500	1875	2250	2625	3000	3750	4500	5250
36x18	4.50	4.22	NC	-	-	18	23	28	32	39	44	49
			°0	65-35-21	76-47-31	84-58-39	93-65-47	100-71-54	107-76-62	119-84-69	131-93-76	141-100-82
			Throw °22.5 (ft)	51-27-17	59-36-24	65-45-30	72-51-36	77-55-42	83-59-48	93-65-53	101-72-59	110-77-63
			°45	29-16-10	34-21-14	38-26-17	42-29-21	45-32-24	48-34-28	54-38-31	59-42-34	64-45-37
			cfm	1266	1688	2110	2532	2954	3376	4220	5064	5908
36x20 30x24	5.00	4.71	NC	-	-	18	24	29	33	39	45	49
			°0	69-37-23	80-49-33	89-61-41	98-69-49	106-75-57	113-80-65	126-89-73	138-98-80	149-106-86
			Throw °22.5 (ft)	54-29-18	62-38-25	69-48-32	76-54-38	82-58-44	87-62-50	98-69-56	107-76-62	116-82-67
			°45	31-17-10	36-22-15	40-28-18	44-31-22	48-34-26	51-36-29	57-40-33	62-44-36	67-48-39
			cfm	1413	1884	2355	2826	3297	3768	4710	5652	6594
42x18	5.25	4.94	NC	-	-	19	24	29	33	39	45	49
			°0	71-38-23	82-50-34	91-63-42	100-71-50	108-76-59	116-82-67	129-91-75	142-100-82	153-108-88
			Throw °22.5 (ft)	55-29-18	63-39-26	71-49-33	78-55-39	84-59-46	90-63-52	100-71-58	110-78-63	118-84-68
			°45	32-17-10	37-23-15	41-28-19	45-32-23	49-34-26	52-37-30	58-41-34	64-45-37	69-49-40
			cfm	1482	1976	2470	2964	3458	3952	4940	5928	6916
28x28	5.44	5.16	NC	-	-	19	24	29	33	40	45	50
			°0	72-39-24	84-51-34	93-64-43	102-72-51	110-78-60	118-84-68	132-93-76	145-102-84	156-110-90
			Throw °22.5 (ft)	56-30-18	65-40-27	72-50-33	79-56-40	86-61-47	92-65-53	102-72-59	112-79-65	121-86-70
			°45	33-17-11	38-23-15	42-29-19	46-33-23	50-35-27	53-38-31	59-42-34	65-46-38	70-50-41
			cfm	1548	2064	2580	3096	3612	4128	5160	6192	7224
42x20 30x28	5.83	5.51	NC	-	-	19	25	29	33	40	45	50
			°0	75-40-25	86-53-35	96-66-44	106-75-53	114-81-62	122-86-70	136-96-79	149-106-86	161-114-93
			Throw °22.5 (ft)	58-31-19	67-41-27	75-51-34	82-58-41	88-63-48	95-67-55	106-75-61	116-82-67	125-88-72
			°45	34-18-11	39-24-16	43-30-20	48-34-24	51-36-28	55-39-32	61-43-35	67-48-39	73-51-42
			cfm	1653	2204	2755	3306	3857	4408	5510	6612	7714
48x18 36x24	6.00	5.66	NC	-	-	19	25	29	33	40	45	50
			°0	76-40-25	87-54-36	98-67-45	107-76-54	116-82-63	124-87-71	138-98-80	152-107-87	164-116-94
			Throw °22.5 (ft)	59-31-19	68-42-28	76-52-35	83-59-42	90-63-49	96-68-55	107-76-62	117-83-68	127-90-73
			°45	34-18-11	39-24-16	44-30-20	48-34-24	52-37-28	56-39-32	62-44-36	68-48-39	74-52-43
			cfm	1698	2264	2830	3396	3962	4528	5660	6792	7924
30x30	6.25	5.94	NC	-	-	19	25	30	33	40	46	50
			°0	78-41-25	90-55-37	100-69-46	110-78-55	119-84-64	127-90-73	142-100-82	155-110-90	168-119-97
			Throw °22.5 (ft)	60-32-20	69-43-29	78-53-36	85-60-43	92-65-50	98-69-57	110-78-63	120-85-69	130-92-75
			°45	35-19-11	40-25-17	45-31-21	49-35-25	53-38-29	57-40-33	64-45-37	70-49-40	75-53-44
			cfm	1782	2376	2970	3564	4158	4752	5940	7128	8316

- Performance notes appear at end of table.
- See the table, Correction Factors for Various Models to determine appropriate factor.



AeroBlade Grilles | Supply | Performance Data

Performance Data

Models: 272 RL - 272 RS - 272 FL - 272 FS

Performance based on nominal sizes shown in bold.

			NC 20			NC 30			NC 40			NC 50		
Nom. Duct Size (in.)	Nom. Duct Area (ft ²)	Core Area (ft ²)	Core Vel.	300	400	500	600	700	800	1000	1200	1400		
			Vel. Press.	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122		
			°0	0.010	0.017	0.027	0.038	0.052	0.068	0.106	0.153	0.208		
			Total °22.5 Press. °45	0.011 0.016	0.019 0.029	0.030 0.045	0.043 0.065	0.058 0.089	0.076 0.116	0.118 0.181	0.171 0.260	0.232 0.354		
42x24 36x28	7.00	6.66	cfm	1998	2664	3330	3996	4662	5328	6660	7992	9324		
			NC	-	13	20	25	30	34	41	46	51		
			Throw °0 °22.5 (ft) °45	82-44-27 64-34-21 37-20-12	95-58-39 74-45-30 43-26-18	106-73-49 82-57-38 48-33-22	116-82-58 90-64-45 52-37-26	126-89-68 97-69-53 56-40-31	134-95-77 104-74-60 60-43-35	150-106-87 116-82-67 68-48-39	164-116-95 127-90-74 74-52-43	178-126-102 138-97-79 80-56-46		
46x22	7.03	6.68	cfm	2004	2672	3340	4008	4676	5344	6680	8016	9352		
			NC	-	13	20	25	30	34	41	46	51		
			Throw °0 °22.5 (ft) °45	82-44-27 64-34-21 37-20-12	95-59-39 74-45-30 43-26-18	106-73-49 82-57-38 48-33-22	116-82-59 90-64-45 52-37-26	126-89-68 97-69-53 57-40-31	134-95-78 104-74-60 60-43-35	150-106-87 116-82-67 68-48-39	165-116-95 128-90-74 74-52-43	178-126-103 138-97-80 80-57-46		
32x32	7.11	6.78	cfm	2034	2712	3390	4068	4746	5424	6780	8136	9492		
			NC	-	13	20	25	30	34	41	46	51		
			Throw °0 °22.5 (ft) °45	83-44-27 64-34-21 37-20-12	96-59-39 74-46-30 43-27-18	107-74-49 83-57-38 48-33-22	117-83-59 91-64-46 53-37-27	127-90-69 98-69-53 57-40-31	135-96-78 105-74-61 61-43-35	151-107-87 117-83-68 68-48-39	166-117-96 129-91-74 75-53-43	179-127-103 139-98-80 81-57-47		
36x30	7.50	7.16	cfm	2148	2864	3580	4296	5012	5728	7160	8592	10024		
			NC	-	14	20	26	30	34	41	46	51		
			Throw °0 °22.5 (ft) °45	85-45-28 66-35-22 38-20-13	98-61-40 76-47-31 44-27-18	110-76-50 85-59-39 50-34-23	121-85-61 93-66-47 54-38-27	130-92-71 101-71-55 59-41-32	139-98-80 108-76-62 63-44-36	156-110-90 121-85-70 70-50-40	170-121-98 132-93-76 77-54-44	184-130-106 143-101-82 83-59-48		
48x24 36x32	8.00	7.63	cfm	2289	3052	3815	4578	5341	6104	7630	9156	10682		
			NC	-	14	20	26	31	35	41	47	51		
			Throw °0 °22.5 (ft) °45	88-47-29 68-36-22 40-21-13	102-63-42 79-48-32 46-28-19	114-78-52 88-61-40 51-35-23	124-88-63 96-68-48 56-40-28	134-95-73 104-74-57 60-43-33	144-102-83 111-79-64 65-46-37	161-114-93 124-88-72 72-51-42	176-124-102 136-96-79 79-56-46	190-134-110 147-104-85 86-60-49		
34x34	8.03	7.68	cfm	2304	3072	3840	4608	5376	6144	7680	9216	10752		
			NC	-	14	21	26	31	35	41	47	51		
			Throw °0 °22.5 (ft) °45	88-47-29 68-36-22 40-21-13	102-63-42 79-49-32 46-28-19	114-78-52 88-61-41 51-35-24	125-88-63 97-68-49 56-40-28	135-95-73 104-74-57 61-43-33	144-102-83 112-79-64 65-46-37	161-114-93 125-88-72 73-51-42	176-125-102 137-97-79 79-56-46	191-135-110 148-104-85 86-61-50		
36x34	8.50	8.14	cfm	2442	3256	4070	4884	5698	6512	8140	9768	11396		
			NC	-	14	21	26	31	35	41	47	52		
			Throw °0 °22.5 (ft) °45	91-48-30 70-38-23 41-22-13	105-65-43 81-50-33 47-29-19	117-81-54 91-63-42 53-36-24	128-91-65 100-70-50 58-41-29	139-98-75 108-76-58 62-44-34	148-105-86 115-81-66 67-47-39	166-117-96 129-91-74 75-53-43	182-128-105 141-100-81 82-58-47	196-139-113 152-108-88 88-62-51		
42x30	8.75	8.38	cfm	2514	3352	4190	5028	5866	6704	8380	10056	11732		
			NC	-	14	21	26	31	35	42	47	52		
			Throw °0 °22.5 (ft) °45	92-49-30 71-38-23 41-22-14	106-66-44 82-51-34 48-29-20	119-82-55 92-64-42 54-37-25	130-92-66 101-71-51 59-41-29	141-100-76 109-77-59 63-45-34	151-106-87 117-82-67 68-48-39	168-119-97 130-92-75 76-54-44	184-130-106 143-101-82 83-59-48	199-141-115 154-109-89 90-63-52		
36x36	9.00	8.63	cfm	2589	3452	4315	5178	6041	6904	8630	10356	12082		
			NC	-	14	21	26	31	35	42	47	52		
			Throw °0 °22.5 (ft) °45	94-50-31 72-39-24 42-22-14	108-67-44 84-52-34 49-30-20	121-83-55 94-64-43 54-37-25	132-94-67 103-72-52 60-42-30	143-101-78 111-78-60 64-45-35	153-108-88 118-84-68 69-49-40	171-121-99 132-94-76 77-54-44	187-132-108 145-103-84 84-60-49	202-143-117 157-111-90 91-64-53		
42x34 48x30	10.00	9.6	cfm	2880	3840	4800	5760	6720	7680	9600	11520	13440		
			NC	-	15	21	27	32	35	42	48	52		
			Throw °0 °22.5 (ft) °45	99-53-32 76-41-25 44-24-15	114-70-47 88-54-36 51-32-21	127-88-58 99-68-45 57-39-26	140-99-70 108-76-54 63-44-32	151-107-82 117-83-63 68-48-37	161-114-93 125-88-72 73-51-42	180-127-104 140-99-81 81-57-47	197-140-114 153-108-88 89-63-51	213-151-123 165-117-95 96-68-55		
38x38	10.03	9.64	cfm	2892	3856	4820	5784	6748	7712	9640	11568	13496		
			NC	-	15	21	27	32	36	42	48	52		
			Throw °0 °22.5 (ft) °45	99-53-32 77-41-25 44-24-15	114-70-47 88-54-36 51-32-21	128-88-59 99-68-45 57-40-26	140-99-70 108-77-54 63-44-32	151-107-82 117-83-64 68-48-37	161-114-93 125-88-72 73-51-42	181-128-104 140-99-81 81-57-47	198-140-114 153-108-88 89-63-51	214-151-123 166-117-96 96-68-55		
42x36	10.50	10.1	cfm	3030	4040	5050	6060	7070	8080	10100	12120	14140		
			NC	-	15	22	27	32	36	42	48	52		
			Throw °0 °22.5 (ft) °45	101-54-33 78-42-26 46-24-15	117-72-48 91-56-37 53-32-22	131-90-60 101-70-46 59-40-27	143-101-72 111-78-56 64-46-32	155-109-84 120-85-65 70-49-38	165-117-95 128-91-74 74-53-43	185-131-107 143-101-83 83-59-48	202-143-117 157-111-91 91-64-53	219-155-126 169-120-98 98-70-57		
46x34	10.86	10.45	cfm	3135	4180	5225	6270	7315	8360	10450	12540	14630		
			NC	-	15	22	27	32	36	43	48	53		
			Throw °0 °22.5 (ft) °45	103-55-34 80-43-26 46-25-15	119-73-49 92-57-38 53-33-22	133-92-61 103-71-47 60-41-27	146-103-73 113-80-57 66-46-33	157-111-85 122-86-66 71-50-38	168-119-97 130-92-75 76-53-44	188-133-109 146-103-84 85-60-49	206-146-119 160-113-92 93-66-53	222-157-128 172-122-99 100-71-58		



AeroBlade Grilles | Supply | Performance Data

Performance Data

Models: 272 RL - 272 RS - 272 FL - 272 FS

Performance based on nominal sizes shown in bold.

Nom. Duct Size (in.)	Nom. Duct Area (ft ²)	Core Area (ft ²)	NC 20			NC 30			NC 40			NC 50		
			Core Vel.	300	400	500	600	700	800	1000	1200	1400		
42x38	11.08	10.67	Vel. Press.	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122		
			°0	0.010	0.017	0.027	0.038	0.052	0.068	0.106	0.153	0.208		
			°22.5	0.011	0.019	0.030	0.043	0.058	0.076	0.118	0.171	0.232		
			°45	0.016	0.029	0.045	0.065	0.089	0.116	0.181	0.260	0.354		
			cfm	3201	4268	5335	6402	7469	8536	10670	12804	14938		
			NC	-	15	22	27	32	36	43	48	53		
			°0	104-55-34	120-74-49	134-92-62	147-104-74	159-112-86	170-120-98	190-134-110	208-147-120	225-159-130		
			Throw °22.5	81-43-26	93-57-38	104-72-48	114-81-57	123-87-67	132-93-76	147-104-85	161-114-93	174-123-101		
			(ft) °45	47-25-15	54-33-22	60-42-28	66-47-33	71-51-39	76-54-44	85-60-49	94-66-54	101-71-58		
			NC	3210	4280	5350	6420	7490	8560	10700	12840	14980		
40x40	11.11	10.7	NC	-	15	22	27	32	36	43	48	53		
			°0	104-56-34	120-74-49	134-93-62	147-104-74	159-113-86	170-120-98	190-134-110	208-147-120	225-159-130		
			Throw °22.5	81-43-26	93-57-38	104-72-48	114-81-57	123-87-67	132-93-76	147-104-85	161-114-93	174-123-101		
			(ft) °45	47-25-15	54-33-22	61-42-28	66-47-33	72-51-39	77-54-44	86-61-49	94-66-54	101-72-58		
			cfm	3471	4628	5785	6942	8099	9256	11570	13884	16198		
			NC	-	16	22	28	32	36	43	48	53		
			°0	108-58-36	125-77-51	140-96-64	153-108-77	165-117-90	177-125-102	198-140-114	217-153-125	234-165-135		
			Throw °22.5	84-45-28	97-60-40	108-75-50	119-84-60	128-91-70	137-97-79	153-108-88	168-119-97	181-128-105		
			(ft) °45	49-26-16	56-35-23	63-43-29	69-49-35	74-53-40	80-56-46	89-63-51	97-69-56	105-74-61		
			cfm	3546	4728	5910	7092	8274	9456	11820	14184	16548		
42x42	12.25	11.82	NC	-	16	22	28	32	36	43	48	53		
			°0	109-58-36	126-78-52	141-97-65	155-109-78	167-118-91	179-126-103	200-141-115	219-155-126	236-167-137		
			Throw °22.5	85-45-28	98-60-40	110-75-50	120-85-60	130-92-70	139-98-80	155-110-89	170-120-98	183-130-106		
			(ft) °45	49-26-16	57-35-23	64-44-29	70-49-35	75-53-41	80-57-46	90-64-52	99-70-57	106-75-61		
			cfm	3897	5196	6495	7794	9093	10392	12990	15588	18186		
			NC	-	16	23	28	33	37	43	49	53		
			°0	115-61-38	133-82-54	148-102-68	162-115-82	175-124-95	187-133-108	210-148-121	230-162-133	248-175-143		
			Throw °22.5	89-47-29	103-63-42	115-79-53	126-89-63	136-96-74	145-103-84	162-115-94	178-126-103	192-136-111		
			(ft) °45	52-28-17	60-37-24	67-46-31	73-52-37	79-56-43	84-60-49	94-67-54	103-73-60	112-79-64		
			cfm	4062	5416	6770	8124	9478	10832	13540	16248	18956		
44x44	13.44	12.99	NC	-	16	23	28	33	37	43	49	53		
			°0	117-62-38	135-83-56	151-104-69	166-117-83	179-127-97	191-135-110	214-151-124	234-166-135	253-179-146		
			Throw °22.5	91-48-30	105-65-43	117-81-54	128-91-65	139-98-75	148-105-86	166-117-96	182-128-105	196-139-113		
			(ft) °45	53-28-17	61-37-25	68-47-31	75-53-37	81-57-44	86-61-50	96-68-56	105-75-61	114-81-66		
			cfm	4266	5688	7110	8532	9954	11376	14220	17064	19908		
			NC	-	16	23	29	33	37	44	49	54		
			°0	120-64-39	139-85-57	155-107-71	170-120-85	183-130-100	196-139-113	219-155-127	240-170-139	259-183-150		
			Throw °22.5	93-50-31	107-66-44	120-83-55	132-93-66	142-101-77	152-107-88	170-120-98	186-132-107	201-142-116		
			(ft) °45	54-29-18	62-38-26	70-48-32	76-54-38	83-58-45	88-62-51	99-70-57	108-76-62	117-83-67		
			cfm	4455	5940	7425	8910	10395	11880	14850	17820	20790		
46x46	14.69	14.22	NC	-	17	23	29	33	37	44	49	54		
			°0	123-65-40	142-87-58	158-109-73	174-123-87	187-133-102	200-142-116	224-158-129	245-174-142	265-187-153		
			Throw °22.5	95-51-31	110-68-45	123-85-56	134-95-68	145-103-79	155-110-90	174-123-100	190-134-110	205-145-119		
			(ft) °45	55-29-18	64-39-26	71-49-33	78-55-39	84-60-46	90-64-52	101-71-58	110-78-64	119-84-69		
			cfm	4650	6200	7750	9300	10850	12400	15500	18600	21700		
			NC	-	17	23	29	34	37	44	50	54		
			°0	125-67-41	145-89-59	162-111-74	177-125-89	192-135-104	205-145-118	229-162-132	251-177-145	271-192-156		
			Throw °22.5	97-52-32	112-69-46	125-86-58	137-97-69	148-105-81	159-112-92	177-125-102	194-137-112	210-148-121		
			(ft) °45	56-30-19	65-40-27	73-50-33	80-56-40	86-61-47	92-65-53	103-73-59	113-80-65	122-86-70		
			cfm	4650	6200	7750	9300	10850	12400	15500	18600	21700		

- 0°, 22.5°, and 45° represent blade deflection angles.
- Performance data is based on duct sizes in bold, the performance varies slightly for duct sizes not shown in bold.
- See the section, Engineering Guidelines, for drop information, when selecting larger supply grilles for cooling purposes.
- See the "Performance Notes" portion in this section for notes and correction factors.
- See the section, Engineering Guidelines for catalog throw information.
- Each NC value represents the noise criteria curve that will not be exceeded by the sound pressure in any of the octave bands, 2 through 7, with a room absorption of 10 dB, re 10⁻¹² watts.

Note: The performance data for Correction Factors by Model is on page J14.



AeroBlade Grilles | Return | Performance Data

Performance Data

Models: 271 RL - 271 RS - 271 FL - 271 FS

Performance based on nominal sizes shown in bold.

NC 10

NC 20

NC 30

NC 40

Nominal Duct Size (in.)	Nominal Duct Area (ft²)	Core Area (ft²)	Core Velocity Velocity Pressure Neg. Static Pressure	300 0.006 0.029	400 0.010 0.051	500 0.016 0.079	600 0.022 0.114	700 0.031 0.156	800 0.040 0.203	1000 0.062 0.318	1200 0.090 0.458	1400 0.122 0.623
6X6	0.25	0.19	Air Flow, cfm NC	57 -	76 -	95 -	114 -	133 13	152 16	190 21	228 26	266 30
8X6	0.33	0.26	Air Flow, cfm NC	78 -	104 -	130 -	156 -	182 14	208 17	260 23	312 27	364 31
10X6	0.42	0.34	Air Flow, cfm NC	102 -	136 -	170 -	204 11	238 15	272 18	340 24	408 28	476 32
8X8	0.44	0.37	Air Flow, cfm NC	111 -	148 -	185 -	222 12	269 15	296 19	370 24	444 29	518 33
12X6	0.50	0.41	Air Flow, cfm NC	123 -	164 -	205 -	246 12	287 16	326 19	410 25	492 29	574 33
14X6	0.58	0.48	Air Flow, cfm NC	144 -	192 -	240 -	288 13	336 17	384 20	480 25	576 30	672 34
16X6			Air Flow, cfm NC	171 -	228 -	285 -	342 14	399 17	456 21	570 26	684 31	798 34
12X8	0.67	0.57	Air Flow, cfm NC	177 -	236 -	295 -	354 14	413 18	472 21	590 26	708 31	826 35
10X10	0.69	0.59	Air Flow, cfm NC	189 -	252 -	315 -	378 14	441 18	504 21	630 27	756 31	882 35
18X6	0.75	0.63	Air Flow, cfm NC	216 -	288 -	360 -	432 15	504 18	576 22	720 27	864 32	1008 35
12X10	0.83	0.72	Air Flow, cfm NC	231 -	308 -	385 -	462 15	539 19	616 22	770 27	924 32	1078 36
22X6	0.92	0.77	Air Flow, cfm NC	264 -	352 -	440 -	528 15	616 19	704 23	880 28	1056 32	1232 36
24X6			Air Flow, cfm NC	264 -	352 -	440 -	528 15	616 19	704 23	880 28	1056 32	1232 36
12X12	1.00	0.88	Air Flow, cfm NC	333 -	444 -	555 -	666 16	777 20	888 24	1110 29	1332 33	1554 37
30X6	1.25	1.11	Air Flow, cfm NC	366 -	488 -	610 -	732 16	854 20	976 24	1220 29	1464 34	1708 38
14X14	1.36	1.22	Air Flow, cfm NC	405 -	540 -	675 -	810 17	945 21	1080 24	1350 30	1620 34	1890 38
18X12	1.50	1.35	Air Flow, cfm NC	411 -	548 -	685 -	822 17	969 21	1096 24	1370 30	1644 34	1918 38
22X10	1.53	1.37	Air Flow, cfm NC	447 -	596 -	745 -	894 18	1043 22	1192 25	1490 30	1788 35	2086 39
30X8	1.67	1.49	Air Flow, cfm NC	477 -	636 -	795 -	954 18	1113 22	1272 25	1590 31	1908 35	2226 39
18X14	1.75	1.59	Air Flow, cfm NC	486 -	648 -	810 -	972 18	1134 22	1296 25	1620 31	1944 35	2268 39
16X16	1.78	1.62	Air Flow, cfm NC	546 -	728 -	910 -	1092 19	1274 22	1456 26	1820 31	2184 36	2548 39
24X12	2.00	1.82	Air Flow, cfm NC	621 -	828 -	1035 -	1242 19	1449 23	1656 26	2070 32	2484 36	2898 40
18X18	2.25	2.07	Air Flow, cfm NC	642 -	856 -	1070 -	1284 19	1498 23	1712 26	2140 32	2568 36	2996 40
24X14	2.33	2.14	Air Flow, cfm NC	687 -	916 -	1145 -	1374 20	1603 23	1832 27	2290 32	2748 37	3206 40
30X12	2.50	2.29	Air Flow, cfm NC	738 -	984 -	1230 -	1476 20	1722 24	1968 27	2460 32	2952 37	3444 41
24X16	2.67	2.46	Air Flow, cfm NC	771 -	1028 -	1285 -	1542 20	1799 24	2056 27	2570 33	3084 37	3598 41
20X20	2.78	2.57	Air Flow, cfm NC	825 -	1100 -	1375 -	1650 20	1925 24	2200 27	2750 33	3300 37	3850 41
36X12	3.00	2.75	Air Flow, cfm NC	933 -	1244 -	1555 -	1866 21	2177 25	2488 28	3110 33	3732 38	4354 42
30X16	3.33	3.11	Air Flow, cfm NC	942 -	1256 -	1570 -	1884 21	2198 25	2512 28	3140 34	3768 38	4396 42
22X22	3.36	3.14	Air Flow, cfm NC	966 -	1288 -	1610 -	1932 21	2254 25	2576 28	3220 34	3864 38	4508 42
42X12	3.50	3.22	Air Flow, cfm NC	1029 -	1372 -	1715 -	2058 21	2401 25	2744 28	3430 34	4116 38	4802 42
24X22	3.67	3.43	Air Flow, cfm NC	1050 -	1400 -	1750 -	2100 21	2450 25	2800 29	3500 34	4200 36	4900 42
30X18	3.75	3.5	Air Flow, cfm NC	-	12	17	21	25	29	34	36	42



AeroBlade Grilles | Return | Performance Data

Performance Data

Models: 271 RL - 271 RS - 271 FL - 271 FS

Performance based on nominal sizes shown in bold.

Models: Z71RS - Z71RS - Z71FL - Z71FLS				NC 10		NC 20		NC 30		NC 40		
Performance based on nominal sizes shown in bold.												
Nominal Duct Size (in.)	Nominal Duct Area (ft²)	Core Area (ft²)	Core Velocity Velocity Pressure Neg. Static Pressure	300 0.008 0.029	400 0.010 0.051	500 0.018 0.079	600 0.022 0.114	700 0.031 0.156	800 0.040 0.203	1000 0.062 0.318	1200 0.090 0.458	1400 0.122 0.623
48X12	4.00	3.75	Air Flow, cfm	1125	1500	1875	2250	2625	3000	3750	4500	5250
24X24			NC	-	12	17	22	26	29	34	39	34
36X18	4.50	4.22	Air Flow, cfm	1266	1688	2110	2532	2954	3376	4220	5064	5908
			NC	-	12	18	22	26	29	35	39	43
36X20	5.00	4.71	Air Flow, cfm	1413	1884	2355	2826	3297	3768	4710	5652	6594
30X24			NC	-	13	18	23	27	30	35	40	44
42X18	5.25	4.94	Air Flow, cfm	1462	1976	2470	2964	3458	3952	4940	5928	6916
			NC	-	13	18	23	27	30	36	40	44
28X28	5.44	5.16	Air Flow, cfm	1548	2064	2580	3096	3612	4128	5160	6192	7224
			NC	-	13	19	23	27	30	36	40	44
42X20	5.83	5.51	Air Flow, cfm	1653	2204	2755	3306	3857	4408	5510	6612	7714
30X28			NC	-	13	19	23	27	30	36	40	44
48X18	6.00	5.66	Air Flow, cfm	1698	2264	2830	3396	3962	4528	5660	6792	7924
36X24			NC	-	14	19	24	27	31	36	41	44
36X30	6.25	5.94	Air Flow, cfm	1782	2376	2970	3564	4158	4752	5490	7128	8316
			NC	-	14	19	24	28	31	36	41	45
42X24	7.00	6.66	Air Flow, cfm	1998	2664	3330	3996	4662	5328	6660	7992	9324
36X28			NC	-	14	20	24	28	31	37	41	45
46X22	7.03	6.68	Air Flow, cfm	2004	2672	3340	4008	4676	5344	6680	8016	9352
			NC	-	14	20	24	28	31	37	41	45
32X32	7.11	6.78	Air Flow, cfm	2034	2715	3390	4068	4746	5424	6780	8136	9492
			NC	-	14	20	24	28	31	37	41	45
36X30	7.50	7.16	Air Flow, cfm	2148	2864	3580	4296	5012	5728	7160	8592	10024
			NC	-	15	20	25	28	32	37	42	45
48X24	8.00	7.63	Air Flow, cfm	2289	3052	3815	4578	5341	6104	7630	9156	10682
36X32			NC	-	15	20	25	29	32	37	42	46
34X34	8.03	7.68	Air Flow, cfm	2304	3072	3840	4608	5376	6144	7680	9216	10762
			NC	-	15	20	25	29	32	37	42	46
36X34	8.50	8.14	Air Flow, cfm	2442	3256	4070	4884	5698	6512	8140	9768	11396
			NC	-	15	21	25	29	32	38	42	46
42X30	8.75	8.38	Air Flow, cfm	2514	3352	4190	5028	5866	6704	8380	10056	11732
			NC	-	15	21	25	29	32	38	42	46
36X36	9.00	8.63	Air Flow, cfm	2589	3452	4315	5178	6041	6904	8630	10356	12082
			NC	-	15	21	25	29	32	38	42	46
42X34	10.00	9.6	Air Flow, cfm	2880	3840	4800	5760	6720	7680	9600	11520	13440
48X30			NC	-	18	21	26	30	33	38	43	47
38X38	10.03	9.64	Air Flow, cfm	2892	3856	4820	5784	6748	7712	9640	11568	13496
			NC	-	16	21	26	30	33	38	43	47
42X36	10.50	10.1	Air Flow, cfm	3030	4040	5050	6060	7070	8080	10100	12120	14140
			NC	-	16	22	26	30	33	39	43	47
46X34	10.86	10.45	Air Flow, cfm	3135	4180	5225	6270	7315	8360	10450	12540	14630
			NC	-	16	22	26	30	33	39	43	47
42X38	11.08	10.67	Air Flow, cfm	3201	4268	5335	6402	7469	8536	10670	12804	14938
			NC	-	16	22	26	30	33	39	43	47
40X40	11.11	10.7	Air Flow, cfm	3210	4280	5350	6420	7490	8560	10700	12840	14980
			NC	-	16	22	26	30	33	39	43	47
48X36	12.00	11.57	Air Flow, cfm	3471	4628	5786	6942	8099	9256	11570	13884	16198
			NC	-	17	22	27	30	34	39	44	47
42X42	12.25	11.82	Air Flow, cfm	3546	4728	5910	7092	8274	9456	11820	14184	16548
			NC	-	17	22	27	31	34	39	44	48
44X44	13.44	12.99	Air Flow, cfm	3897	5196	6496	7794	9093	10392	12990	15588	18186
			NC	-	17	23	27	31	34	40	44	48
48X42	14.00	13.54	Air Flow, cfm	4062	5416	6770	8124	9478	10832	13540	16248	18956
			NC	-	17	23	27	31	34	40	44	48
46X46	14.69	14.22	Air Flow, cfm	4266	5688	7110	8532	9954	11376	14220	17064	19908
			NC	11	18	23	28	31	35	40	45	48
48X46	15.33	14.85	Air Flow, cfm	4455	5940	7425	8910	10395	11880	14850	17820	20790
			NC	11	18	23	28	32	35	40	45	49
48X48	16.00	15.50	Air Flow, cfm	4650	6200	7750	9300	10850	12400	15500	18600	21700
			NC	11	18	23	28	32	35	40	45	49



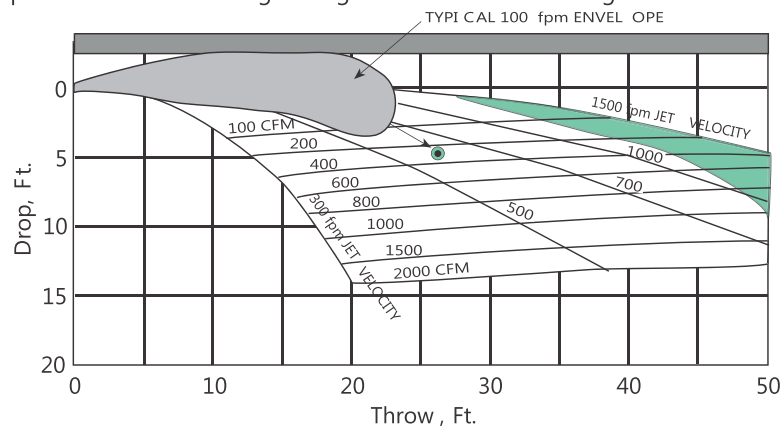
AeroBlade Grilles | Supply | Performance Data

Performance Notes

- Performance data includes damper.
- Data obtained from tests conducted in accordance with ANSI/ASHRAE Standard 2006-70.
- All pressures are in inches of water.
- Core velocities are in feet per minute.
- Throw values are given for isothermal terminal velocities of 100, 150 and 50 fpm.
- Each NC value represents the noise criterion curve that will not be exceeded by the sound pressure in any of the octave bands, 2 through 7. Each NC value is further based on a grille operating at a 0° deflection. For deflection settings of $22\frac{1}{2}^\circ$ or 45° , increase the stated sound levels by 1 or 7 NC, respectively.
- Bold dividing lines on each table denote ranges of NC values.
- The stated deflection settings refer to the horizontal setting of the blade's deflection angle. For a 20° upward deflection, use the throw rating for the 0° setting and the total pressure for the $22\frac{1}{2}^\circ$ horizontal setting.
- See the section, Engineering Guidelines for drop and throw information.
- Dash (–) in space indicates NC value less than 10.

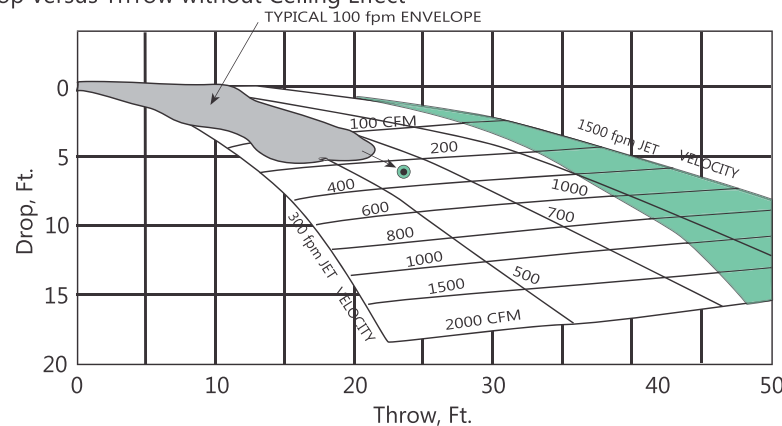
Variable Air Volume Applications
All  supply grilles can be applied to variable air volume systems with excellent results. For detailed selection methods, consult your Titus representative or the Engineering Guidelines section of this catalog.

Drop Versus Throw Showing Ceiling Effect • 20°F DT Cooling



(Side view of air jet leaving wall mounted grille.)

Drop Versus Throw without Ceiling Effect



(Side view of air jet leaving wall mounted grille.)

Correction Factors for AeroBlade Supply Grilles

Model	Damper	A_k / A_c	Throw	Total Pressure	NC
272, 271	With	0.78	1.00	1.00	0
	Without	0.83	0.97	0.88	4–

Note: Throw and total pressure corrections are multipliers. The NC correction is an addition. A_k is the ow factor. A_c is the core area from the main table.



AeroBlade Grilles | Supply | Performance Data

Supply Performance Notes (continued)

Horizontal Deflection (Spread)

Supply Grilles

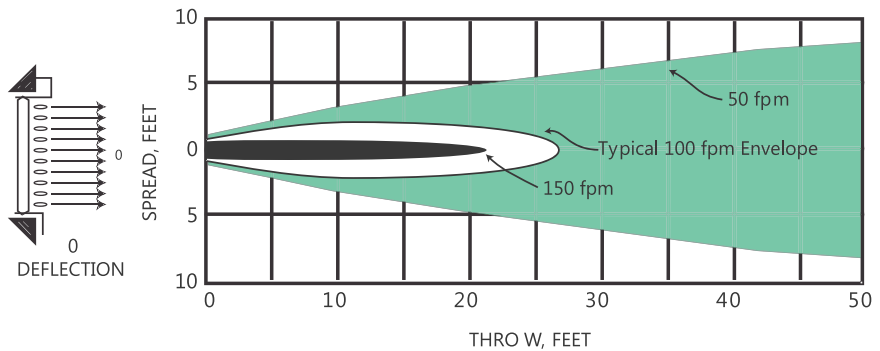
Diagrams are based on actual tests conducted by . They show the relationship of spread to throw for a typical high side-wall supply outlet selection.

Notice the outer shaded area represents the 50 fpm isovel, the white area the 100 fpm isovel, and the inner area the 150 fpm isovel.

The spread angle also affects the amount of drop of the airstream. For a given temperature, volume, and core velocity, the wider the spread the smaller the drop. See the section, Engineering Guidelines for drop and throw information.

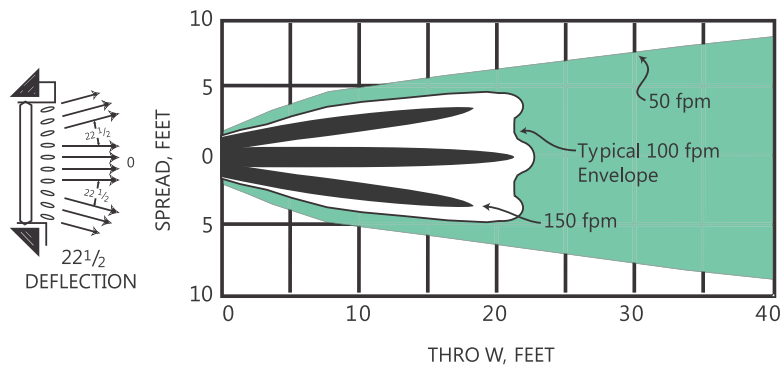
Titus grilles can be selected with a single set of blades for adjusting either horizontal or vertical deflection, or with two sets of blades for adjusting both horizontal and vertical deflections.

0° Horizontal Deflection



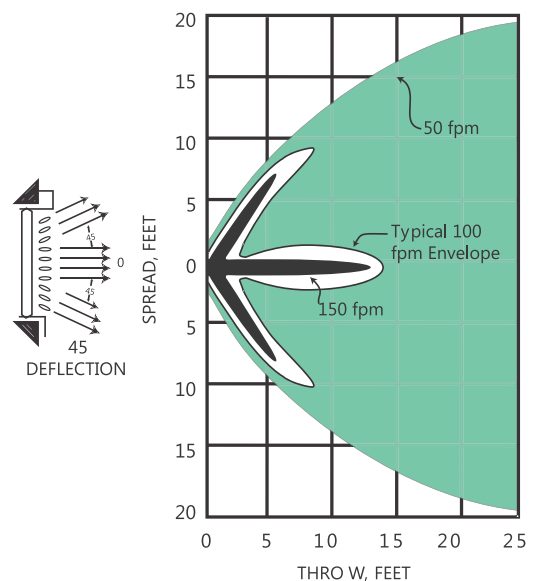
Spread versus throw at 0° horizontal deflection angle (Plan view of air jet leaving wall mounted grille).

22½° Horizontal Deflection



Spread versus throw at 22½° horizontal deflection angle (Plan view of air jet leaving wall mounted grille).

45° Horizontal Deflection



Spread versus throw at 45° horizontal deflection angle (Plan view of air jet leaving wall mounted grille).