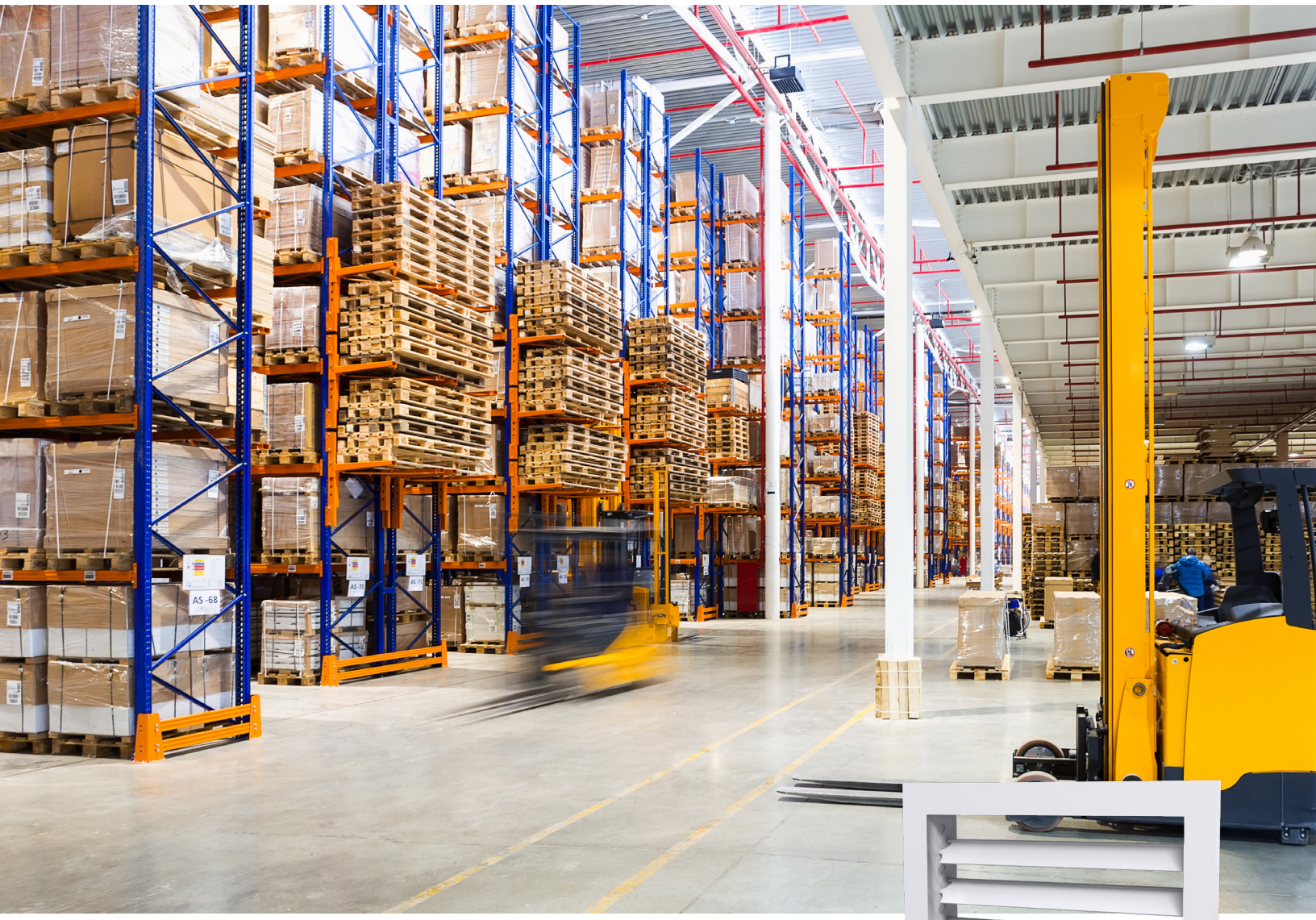
150

HEAVY DUTY LOUVERED SUPPLY GRILLE

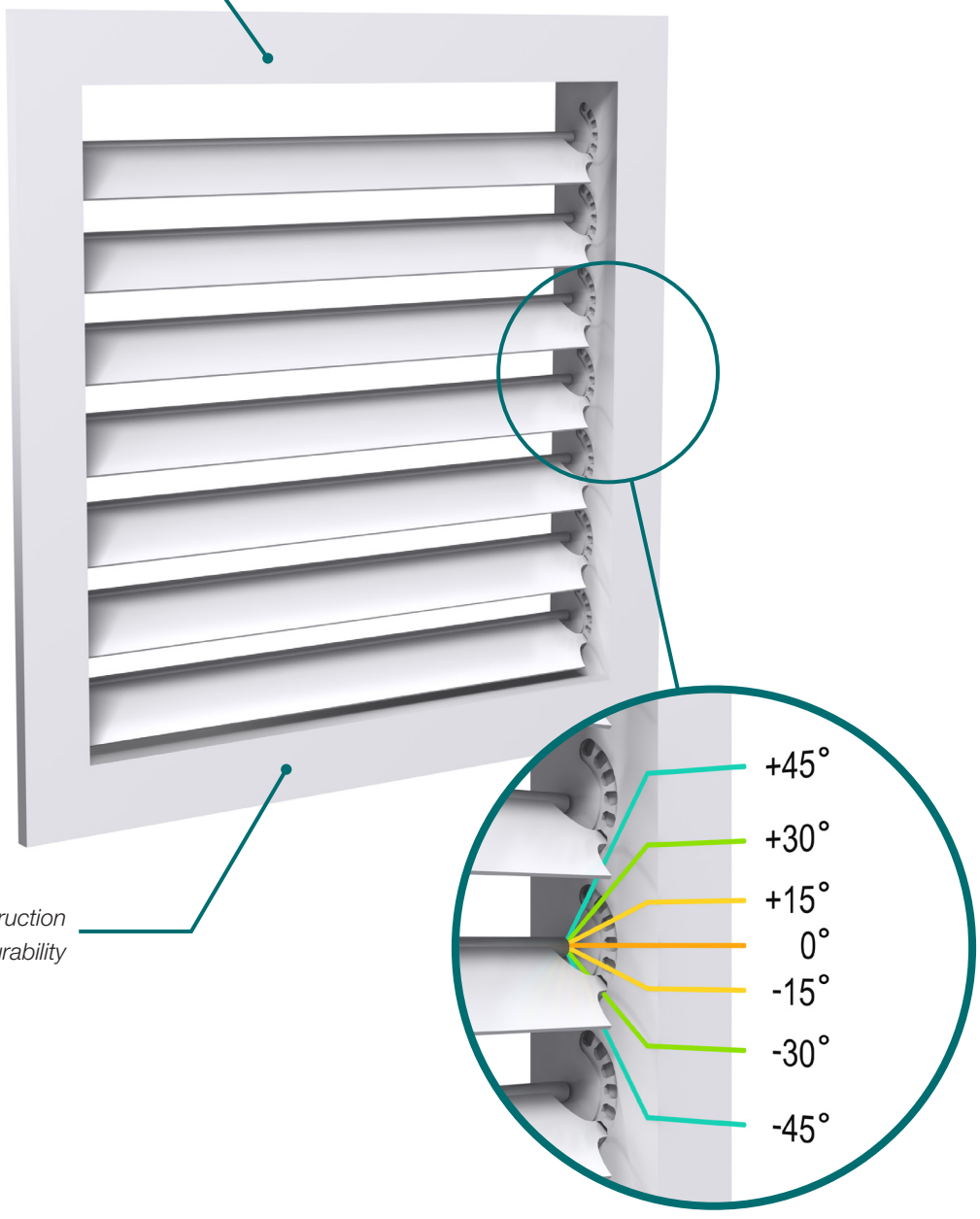


price | GRILLES

150
Heavy Duty Louvered Supply Grille

Ideal for industrial applications, the 150 Heavy Duty Louvered Supply Grille features individually adjustable blades spaced on 1.5 in. centers to accommodate large air volumes and provide directional control suitable for spot heating and cooling.

Optional trunk-latch fastening, gang operated blades and modular construction available



Extruded aluminum construction provides added durability

Patented blade indexing device locks blades in position

SUPERIOR PERFORMANCE

+ Modular construction and individually adjustable blades allow the 150 to be adjusted on-site to suit almost any condition.
+ Suitable for spot heating and cooling, the 150 can be adjusted to provide short, wide throws or long, narrow throws.
+ Large blade spacing maximizes free area to reduce pressure drop and sound and minimizes the effect of dirt loading.

HEAVY DUTY CONSTRUCTION

+ Designed to be rugged and reliable, the 150 features extruded construction for the blades, frame, mullions and optional gang operator mechanism to resist corrosion and stand up to demanding field conditions.

ADJUSTABLE BLADES

+ A patented blade indexing device locks each blade into position at 0°, 15°, 30°, or 45° deflection in both directions to prevent unwanted changes in blade deflection.
+ Blades are securely fastened to the heavy duty frame with screws and will hold their position, even after being adjusted multiple times, preventing unwanted changes in blade deflection.

Double deflection

Optional damper

TYPICAL APPLICATIONS

The 150 Heavy Duty Louvered Supply Grille is designed to handle large air volumes and features rugged construction for commercial, factory, warehouse and textile mill applications.

CONSTRUCTION

+ Deflection
  - Single (151)
  - Double (152)
+ Options
  - Trunk latch fastening (TL)
  - Gang operated blades (152G)
  - Modular grilles (MIG)
  - Inverted frame (IF)
  - Steel opposed blade damper (VCS3)
  - Heavy duty steel opposed blade damper (VCS5)

OPTIONAL TRUNK LATCH FASTENING

+ This integral combination of border, frame and fastening provides a unique “stand-off” type surface mounting.
+ A quick-release trunk latch mechanism allows for easy removal and replacement of the grille for cleaning.

GANG OPERATED BLADES

+ The 150 comes with optional front or rear gang operated blades, allowing for quick adjustment of all blades simultaneously.
+ When ordered as a double deflection grille, the additional blades can be fine tuned to best meet specific field conditions.

MODULAR INDUSTRIAL GRILLE (MIG) OPTION

+ The MIG option combines the features of the double deflection industrial grille with a special modular mounting arrangement.
+ Rotatable grille modules and individually adjustable blades allow maximum flexibility and airflow control.
+ Available in 1, 2, 3, or 4 module arrangements with 8 in., 10 in., 12 in. or 15 in. module sizes.
+ Grille modules are fastened to the panel with quick-release ¼ turn fasteners for easy and quick removal of grille sections.

PERFORMANCE DATA

Size	Core Velocity (fpm)		300	400	500	600	700	800	1000	1200	1400	1600	1800
	Velocity Pressure (in. w.g.)		0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122	0.160	0.202
	Total Pressure (in. w.g.)	0°	0.011	0.020	0.031	0.045	0.061	0.080	0.125	0.180	0.246	0.321	0.406
		15°	0.014	0.025	0.039	0.056	0.077	0.100	0.156	0.225	0.307	0.401	0.507
		45°	0.031	0.055	0.085	0.123	0.167	0.219	0.341	0.492	0.669	0.874	1.106
Ac = 0.15 ft² 7 x 4 6 x 5	Flow Rate (cfm)		45	60	75	90	105	120	150	180	210	240	270
	Sound (NC)		-	-	16	21	26	30	36	41	46	50	53
	Throw (ft)	0°	4-6-11	5-8-14	6-9-15	8-11-17	9-13-18	10-14-19	12-15-21	14-17-23	15-18-25	16-19-27	17-20-29
		15°	3-5-9	4-6-11	5-8-12	6-9-13	7-10-14	8-11-15	10-12-17	11-13-19	12-14-20	12-15-22	13-16-23
		45°	2-3-6	3-4-7	3-5-8	4-6-8	4-6-9	5-7-10	6-8-11	7-8-12	7-9-13	8-10-14	8-10-14
Ac = 0.18 ft² 8 x 4 7 x 5 6 x 6	Flow Rate (cfm)		54	72	90	108	126	144	180	216	252	288	324
	Sound (NC)		-	-	16	22	26	30	36	42	46	50	53
	Throw (ft)	0°	4-6-12	6-8-15	7-10-17	8-12-18	10-14-20	11-15-21	14-17-23	15-18-26	16-20-28	17-21-30	18-22-31
		15°	3-5-10	4-7-12	6-8-13	7-10-15	8-11-16	9-12-17	11-13-19	12-15-21	13-16-22	14-17-24	15-18-25
		45°	2-3-6	3-4-7	3-5-8	4-6-9	5-7-10	6-7-10	7-8-12	7-9-13	8-10-14	9-10-15	9-11-16
Ac = 0.22 ft² 10 x 4 8 x 5 7 x 6	Flow Rate (cfm)		66	88	110	132	154	176	220	264	308	352	396
	Sound (NC)		-	-	17	22	26	30	37	42	46	50	54
	Throw (ft)	0°	4-7-14	6-9-16	8-11-18	9-14-20	11-15-22	12-16-23	15-18-26	16-20-28	18-22-31	19-23-33	20-25-35
		15°	3-6-11	5-7-13	6-9-15	7-11-16	9-12-17	10-13-19	12-15-21	13-16-23	14-17-25	15-19-26	16-20-28
		45°	2-3-7	3-5-8	4-6-9	5-7-10	5-8-11	6-8-12	7-9-13	8-10-14	9-11-15	9-12-16	10-12-17
Ac = 0.26 ft² 12 x 4 10 x 5 8 x 6	Flow Rate (cfm)		78	104	130	156	182	208	260	312	364	416	468
	Sound (NC)		-	-	17	22	27	31	37	42	47	51	54
	Throw (ft)	0°	5-7-15	7-10-18	8-12-20	10-15-22	12-17-24	13-18-25	16-20-28	18-22-31	19-24-33	21-25-36	22-27-38
		15°	4-6-12	5-8-14	7-10-16	8-12-17	9-13-19	11-14-20	13-16-23	14-17-25	15-19-27	16-20-28	17-21-30
		45°	2-4-7	3-5-9	4-6-10	5-7-11	6-8-12	7-9-13	8-10-14	9-11-15	10-12-17	10-13-18	11-13-19
Ac = 0.30 ft² 14 x 4	Flow Rate (cfm)		90	120	150	180	210	240	300	360	420	480	540
	Sound (NC)		-	-	17	22	27	31	37	43	47	51	54
	Throw (ft)	0°	5-8-16	7-11-19	9-13-21	11-16-23	13-18-25	14-19-27	17-21-30	19-23-33	21-25-36	22-27-38	23-29-41
		15°	4-6-13	6-9-15	7-11-17	9-13-19	10-14-20	11-15-22	14-17-24	15-19-27	17-20-29	18-22-31	19-23-32
		45°	2-4-8	4-5-10	4-7-11	5-8-12	6-9-13	7-10-14	9-11-15	10-12-17	10-13-18	11-14-19	12-14-20
Ac = 0.34 ft² 16 x 4 12 x 5 10 x 6	Flow Rate (cfm)		102	136	170	204	238	272	340	408	476	544	612
	Sound (NC)		-	-	17	23	27	31	37	43	47	51	54
	Throw (ft)	0°	5-9-17	8-11-20	10-14-23	11-17-25	13-19-27	15-20-29	19-23-32	20-25-35	22-27-38	24-29-41	25-31-43
		15°	4-7-14	6-9-16	8-11-18	9-14-20	11-15-22	12-16-23	15-18-26	16-20-28	18-22-30	19-23-33	20-24-35
		45°	3-4-9	4-6-10	5-7-11	6-9-12	7-10-13	8-10-14	9-11-16	10-12-18	11-13-19	12-14-20	12-15-22
Ac = 0.39 ft² 18 x 4 14 x 5 12 x 6 8 x 8	Flow Rate (cfm)		117	156	195	234	273	312	390	468	546	624	702
	Sound (NC)		-	-	18	23	27	31	38	43	47	51	55
	Throw (ft)	0°	6-9-18	8-12-22	10-15-24	12-18-27	14-20-29	16-22-31	20-24-34	22-27-38	24-29-41	25-31-44	27-33-46
		15°	5-7-15	7-10-17	8-12-20	10-15-21	11-16-23	13-17-25	16-20-28	17-21-30	19-23-33	20-25-35	21-26-37
		45°	3-5-9	4-6-11	5-8-12	6-9-13	7-10-14	8-11-15	10-12-17	11-13-19	12-14-20	13-15-22	13-16-23

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Air flow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. The NC values are based on a room absorption of 10dB, re 10^{-12} watts with a single register set at 0° deflection. For deflection settings of 15° and 45°, increase the listed sound levels by 1 and 12 respectively.
7. Blanks "-" indicate an NC level below 15.
8. **Deflection**
   The listed deflection settings refer to horizontal deflection. For a 15° upward deflection, use the room throw rating for a 0° setting and the total pressure for a 15° horizontal setting.
   The performance tables are based on units with an opposed blade damper.

Corrections for grilles without dampers

	0°	15°	45°
NC	-13	-13	-5
Total Pressure	x .82	x .83	x .93

150
Heavy Duty Louvered Supply Grille

PERFORMANCE DATA

Size	Core Velocity (fpm)		300	400	500	600	700	800	1000	1200	1400	1600	1800
	Velocity Pressure (in. w.g.)		0.006	0.01	0.016	0.022	0.031	0.04	0.062	0.09	0.122	0.16	0.202
	Total Pressure (in. w.g.)	0°	0.011	0.02	0.031	0.045	0.061	0.08	0.125	0.18	0.246	0.321	0.406
		15°	0.014	0.025	0.039	0.056	0.077	0.1	0.156	0.225	0.307	0.401	0.507
		45°	0.031	0.055	0.085	0.123	0.167	0.219	0.341	0.492	0.669	0.874	1.106
Ac = 0.46 ft²	Flow Rate (cfm)		138	184	230	276	322	368	460	552	644	736	828
20 x 4	Sound (NC)		-	-	18	23	28	32	38	43	48	52	55
16 x 5	Throw (ft)	0°	06-10-20	9-13-24	11-17-26	13-20-29	16-22-31	18-24-34	22-26-37	24-29-41	26-31-44	27-34-47	29-36-50
14 x 6		15°	05-08-16	07-11-19	9-13-21	11-16-23	12-18-25	14-19-27	17-21-30	19-23-33	20-25-35	22-27-38	23-28-40
10 x 8		45°	03-05-10	04-07-12	06-08-13	07-10-15	08-11-16	09-12-17	11-13-19	12-15-21	13-16-22	14-17-24	15-18-25
Ac = 0.52 ft²	Flow Rate (cfm)		156	208	260	312	364	416	520	624	728	832	936
24 x 4	Sound (NC)		-	-	18	23	28	32	38	43	48	52	55
18 x 5	Throw (ft)	0°	07-11-21	9-14-25	12-18-28	14-21-31	16-24-33	19-25-36	23-28-40	25-31-44	27-33-47	29-36-50	31-38-53
16 x 6		15°	05-08-17	08-11-20	9-14-23	11-17-25	13-19-27	15-20-28	18-23-32	20-25-35	22-27-38	23-28-40	25-30-43
		45°	03-05-11	05-07-13	06-09-14	07-11-15	08-12-17	9-13-18	11-14-20	13-15-22	14-17-24	15-18-25	15-19-27
Ac = 0.60 ft²	Flow Rate (cfm)		180	240	300	360	420	480	600	720	840	960	1080
28 x 4	Sound (NC)		-	-	18	24	28	32	38	44	48	52	55
20 x 5	Throw (ft)	0°	07-11-23	10-15-27	13-19-30	15-23-33	18-25-36	20-27-38	25-30-43	27-33-47	29-36-51	31-38-54	33-41-57
18 x 6		15°	06-09-18	08-12-22	10-15-24	12-18-27	14-20-29	16-22-31	20-24-34	22-27-37	23-29-40	25-31-43	27-32-46
12 x 8		45°	04-06-11	05-08-14	06-09-15	08-11-17	9-13-18	10-14-19	12-15-21	14-17-23	15-18-25	16-19-27	17-20-29
10 x 10													
Ac = 0.69 ft²	Flow Rate (cfm)		207	276	345	414	483	552	690	828	966	1104	1242
30 x 4	Sound (NC)		-	-	19	24	28	32	39	44	48	52	56
24 x 5	Throw (ft)	0°	08-12-24	11-16-29	14-20-32	16-24-36	19-27-38	22-29-41	26-32-46	29-36-50	31-38-54	34-41-58	36-44-62
20 x 6		15°	06-10-20	9-13-23	11-16-26	13-20-28	15-22-31	17-23-33	21-26-37	23-28-40	25-31-43	27-33-46	28-35-49
14 x 8		45°	04-06-12	05-08-15	07-10-16	08-12-18	9-14-19	11-15-21	13-16-23	15-18-25	16-19-27	17-21-29	18-22-31
12 x 10													
Ac = 0.81 ft²	Flow Rate (cfm)		243	324	405	486	567	648	810	972	1134	1296	1458
36 x 4	Sound (NC)		-	-	19	24	29	32	39	44	49	52	56
28 x 5	Throw (ft)	0°	8-13-26	12-18-31	15-22-35	18-26-39	21-29-42	24-31-44	29-35-50	31-39-54	34-42-59	36-44-63	39-47-67
22 x 6		15°	07-11-21	9-14-25	12-18-28	14-21-31	16-24-33	19-25-36	23-28-40	25-31-44	27-33-47	29-36-50	31-38-53
16 x 8		45°	04-07-13	06-09-16	07-11-18	9-13-19	10-15-21	12-16-22	14-18-25	16-19-27	17-21-29	18-22-31	19-24-33
14 x 10													
Ac = 0.90 ft²	Flow Rate (cfm)		270	360	450	540	630	720	900	1080	1260	1440	1620
40 x 4 12 x 12	Sound (NC)		-	-	19	24	29	33	39	44	49	53	56
30 x 5	Throw	0°	9-14-28	12-19-33	15-23-37	19-28-41	22-31-44	25-33-47	30-37-52	33-41-57	36-44-62	38-47-66	41-50-70
26 x 6	Throw	15°	07-11-22	10-15-27	12-19-30	15-22-32	17-25-35	20-27-37	24-30-42	27-32-46	29-35-50	31-37-53	32-40-56
18 x 8	(ft)	45°	04-07-14	06-09-17	08-12-19	9-14-20	11-15-22	12-17-23	15-19-26	17-20-29	18-22-31	19-23-33	20-25-35
16 x 10													
Ac = 1.07 ft²	Flow Rate (cfm)		321	428	535	642	749	856	1070	1284	1498	1712	1926
48 x 4	Sound (NC)		-	-	19	25	29	33	39	45	49	53	56
36 x 5	Throw	0°	9-15-30	14-20-36	17-25-40	20-30-44	24-34-48	27-36-51	33-40-57	36-44-63	39-48-68	42-51-72	44-54-77
30 x 6	Throw	15°	07-12-24	11-16-29	14-20-32	16-24-35	19-27-38	22-29-41	26-32-46	29-35-50	31-38-54	33-41-58	35-43-61
18 x 10	(ft)	45°	05-08-15	07-10-18	8-13-20	10-15-22	12-17-24	14-18-26	16-20-29	18-22-31	20-24-34	21-26-36	22-27-38
14 x 12													

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Air flow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. The NC values are based on a room absorption of 10dB, re 10^{-12} watts with a single register set at 0° deflection. For deflection settings of 15° and 45°, increase the listed sound levels by 1 and 12 respectively.
7. Blanks "-" indicate an NC level below 15.
8. **Deflection**
   The listed deflection settings refer to horizontal deflection. For a 15° upward deflection, use the room throw rating for a 0° setting and the total pressure for a 15° horizontal setting.
   The performance tables are based on units with an opposed blade damper.

Corrections for grilles without dampers

	0°	15°	45°
NC	-13	-13	-5
Total Pressure	x .82	x .83	x .93

PERFORMANCE DATA

Size	Core Velocity (fpm)		300	400	500	600	700	800	1000	1200	1400	1600	1800
	Velocity Pressure (in. w.g.)		0.006	0.01	0.016	0.022	0.031	0.04	0.062	0.09	0.122	0.16	0.202
	Total Pressure (in. w.g.)	0°	0.011	0.02	0.031	0.045	0.061	0.08	0.125	0.18	0.246	0.321	0.406
		15°	0.014	0.025	0.039	0.056	0.077	0.1	0.156	0.225	0.307	0.401	0.507
		45°	0.031	0.055	0.085	0.123	0.167	0.219	0.341	0.492	0.669	0.874	1.106
Ac = 1.18 ft²	Flow Rate (cfm)		354	472	590	708	826	944	1180	1416	1652	1888	2124
34 x 6	Sound (NC)		-	-	20	25	29	33	40	45	49	53	57
24 x 8	Throw (ft)	0°	10-16-32	14-21-38	18-27-42	21-32-46	25-35-50	28-38-54	35-42-60	38-46-66	41-50-71	44-54-76	46-57-80
20 x 10		15°	8-13-26	11-17-30	14-21-34	17-26-37	20-28-40	23-30-43	28-34-48	30-37-53	33-40-57	35-43-61	37-46-64
16 x 12		45°	05-08-16	07-11-19	9-13-21	11-16-23	12-18-25	14-19-27	17-21-30	19-23-33	20-25-35	22-27-38	23-28-40
14 x 14													
Ac = 1.34 ft²	Flow Rate (cfm)		402	536	670	804	938	1072	1340	1608	1876	2144	2412
60 x 4	Sound (NC)		-	-	20	25	29	33	40	45	49	53	57
48 x 5	Throw (ft)	0°	10-17-34	15-23-40	19-28-45	23-34-50	26-38-53	30-40-57	37-45-64	40-50-70	44-53-76	47-57-81	50-61-86
36 x 6		15°	8-14-27	12-18-32	15-23-36	18-27-40	21-30-43	24-32-46	30-36-51	32-40-56	35-43-61	37-46-65	40-49-69
18 x 12		45°	05-09-17	08-11-20	9-14-23	11-17-25	13-19-27	15-20-29	18-23-32	20-25-35	22-27-38	23-29-40	25-30-43
16 x 14													
Ac = 1.60 ft²	Flow Rate (cfm)		480	640	800	960	1120	1280	1600	1920	2240	2560	2880
72 x 4 16 x 16	Sound (NC)		-	-	20	25	30	34	40	45	50	54	57
30 x 8	Throw (ft)	0°	11-19-37	17-25-44	21-31-49	25-37-54	29-41-58	33-44-62	40-49-70	44-54-77	48-58-83	51-62-88	54-66-94
24 x 10		15°	9-15-30	13-20-35	17-25-40	20-30-43	23-33-47	26-35-50	32-40-56	35-43-61	38-47-66	41-50-71	43-53-75
22 x 12		45°	06-09-19	08-12-22	10-15-25	12-19-27	14-21-29	17-22-31	20-25-35	22-27-38	24-29-41	26-31-44	27-33-47
18 x 14													
Ac = 1.80 ft²	Flow Rate (cfm)		540	720	900	1080	1260	1440	1800	2160	2520	2880	3240
60 x 5 20 x 14	Sound (NC)		-	-	20	26	30	34	40	46	50	54	57
48 x 6	Throw (ft)	0°	12-20-39	18-26-47	22-33-52	26-39-57	31-44-62	35-47-66	43-52-74	47-57-81	51-62-88	54-66-94	57-70-99
36 x 8		15°	10-16-32	14-21-37	18-26-42	21-32-46	25-35-50	28-37-53	34-42-59	37-46-65	40-50-70	43-53-75	46-56-80
30 x 10		45°	06-10-20	9-13-23	11-16-26	13-20-29	15-22-31	18-23-33	21-26-37	23-29-41	25-31-44	27-33-47	29-35-50
24 x 12													
Ac = 2.08 ft²	Flow Rate (cfm)		624	832	1040	1248	1456	1664	2080	2496	2912	3328	3744
72 x 5 24 x 14	Sound (NC)		-	-	20	26	30	34	41	46	50	54	57
60 x 6 20 x 16	Throw (ft)	0°	13-21-42	19-28-50	24-35-56	28-42-62	33-47-67	38-50-71	46-56-80	50-62-87	54-67-94	58-71-101	62-76-107
40 x 8 18 x 18		15°	10-17-34	15-23-40	19-28-45	23-34-49	26-38-53	30-40-57	37-45-64	40-49-70	44-53-75	47-57-81	49-60-85
35 x 10		45°	07-11-21	9-14-25	12-18-28	14-21-31	16-24-33	19-25-36	23-28-40	25-31-44	27-33-47	29-36-50	31-38-53
30 x 12													
Ac = 2.45 ft²	Flow Rate (cfm)		735	980	1225	1470	1715	1960	2450	2940	3430	3920	4410
72 x 6 20 x 18	Sound (NC)		-	-	21	26	30	34	41	46	50	54	58
48 x 8 20 x 20	Throw (ft)	0°	14-23-46	20-31-55	26-38-61	31-46-67	36-51-72	41-55-77	50-61-86	55-67-95	59-72-102	63-77-109	67-82-116
32 x 12		15°	11-18-37	16-25-44	20-31-49	25-37-54	29-41-58	33-44-62	40-49-69	44-54-76	47-58-82	51-62-87	54-66-93
26 x 14		45°	07-12-23	10-15-27	13-19-31	15-23-33	18-26-36	20-27-39	25-31-43	27-33-47	30-36-51	32-39-55	33-41-58
24 x 16													
Ac = 2.78 ft²	Flow Rate (cfm)		834	1112	1390	1668	1946	2224	2780	3336	3892	4448	5004
36 x 12	Sound (NC)		-	-	21	26	31	35	41	46	51	55	58
30 x 14	Throw (ft)	0°	15-25-49	22-33-58	27-41-65	33-49-71	38-54-77	44-58-82	53-65-92	58-71-101	63-77-109	67-82-116	71-87-124
26 x 16		15°	12-20-39	17-26-47	22-33-52	26-39-57	31-44-62	35-47-66	43-52-74	47-57-81	50-62-87	54-66-93	57-70-99
24 x 18		45°	08-12-25	11-16-29	14-20-33	16-25-36	19-27-39	22-29-41	27-33-46	29-36-50	31-39-54	34-41-58	36-44-62
22 x 20													

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Air flow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. The NC values are based on a room absorption of 10dB, re 10^{-12} watts with a single register set at 0° deflection. For deflection settings of 15° and 45°, increase the listed sound levels by 1 and 12 respectively.
7. Blanks "-" indicate an NC level below 15.
8. **Deflection**
   The listed deflection settings refer to horizontal deflection. For a 15° upward deflection, use the room throw rating for a 0° setting and the total pressure for a 15° horizontal setting.
   The performance tables are based on units with an opposed blade damper.

Corrections for grilles without dampers

	0°	15°	45°
NC	-13	-13	-5
Total Pressure	x .82	x .83	x .93

PERFORMANCE DATA

Size	Core Velocity (fpm)		300	400	500	600	700	800	1000	1200	1400	1600	1800
	Velocity Pressure (in. w.g.)		0.006	0.01	0.016	0.022	0.031	0.04	0.062	0.09	0.122	0.16	0.202
	Total Pressure (in. w.g.)	0°	0.011	0.02	0.031	0.045	0.061	0.08	0.125	0.18	0.246	0.321	0.406
		15°	0.014	0.025	0.039	0.056	0.077	0.1	0.156	0.225	0.307	0.401	0.507
		45°	0.031	0.055	0.085	0.123	0.167	0.219	0.341	0.492	0.669	0.874	1.106
Ac = 3.11 ft²	Flow Rate (cfm)		933	1244	1555	1866	2177	2488	3110	3732	4354	4976	5598
60 x 8 26 x 18	Sound (NC)		-	-	21	26	31	35	41	46	51	55	58
48 x 10	Throw (ft)	0°	16-26-52	23-35-62	29-43-69	35-52-75	40-58-81	46-62-87	56-69-97	62-75-107	67-81-115	71-87-123	75-92-131
40 x 12		15°	13-21-41	18-28-49	23-35-55	28-41-60	32-46-65	37-49-70	45-55-78	49-60-85	53-65-92	57-70-99	60-74-105
36 x 14		45°	8-13-26	12-17-31	14-22-34	17-26-38	20-29-41	23-31-44	28-34-49	31-38-53	33-41-58	36-44-62	38-46-65
30 x 16													
Ac=3.61 ft²	Flow Rate (cfm)		1083	1444	1805	2166	2527	2888	3610	4332	5054	5776	6498
72 x 8 28 x 20	Sound (NC)		-	-	21	27	31	35	41	47	51	55	58
60 x 10	Throw (ft)	0°	17-28-56	25-37-66	31-47-74	37-56-81	43-62-88	50-66-94	61-74-105	66-81-115	72-88-124	77-94-133	81-100-141
48 x 12		15°	14-22-45	20-30-53	25-37-59	30-45-65	35-50-70	40-53-75	48-59-84	53-65-92	57-70-99	61-75-106	65-80-113
36 x 16		45°	9-14-28	12-19-33	16-23-37	19-28-41	22-31-44	25-33-47	30-37-52	33-41-57	36-44-62	38-47-66	41-50-70
30 x 18													
Ac = 4.29 ft²	Flow Rate (cfm)		1287	1716	2145	2574	3003	3432	4290	5148	6006	6864	7722
48 x 14	Sound (NC)		-	15	22	27	31	35	42	47	51	55	59
36 x 18	Throw (ft)	0°	19-30-61	27-41-72	34-51-81	41-61-89	47-68-96	54-72-102	66-81-114	72-89-125	78-96-135	84-102-145	89-109-153
32 x 20		15°	15-24-49	22-32-58	27-41-65	32-49-71	38-54-77	43-58-82	53-65-92	58-71-100	63-77-108	67-82-116	71-87-123
28 x 24		45°	9-15-30	14-20-36	17-25-40	20-30-44	24-34-48	27-36-51	33-40-57	36-44-63	39-48-68	42-51-72	44-54-77
Ac = 4.65 ft²	Flow Rate (cfm)		1395	1860	2325	2790	3255	3720	4650	5580	6510	7440	8370
72 x 10	Sound (NC)		-	15	22	27	32	35	42	47	52	55	59
48 x 16	Throw (ft)	0°	20-32-63	28-42-75	35-53-84	42-63-92	49-70-100	56-75-107	69-84-119	75-92-130	81-100-141	87-107-151	92-113-160
36 x 20		15°	16-25-51	23-34-60	28-42-67	34-51-74	39-56-80	45-60-85	55-67-95	60-74-104	65-80-113	70-85-121	74-90-128
30 x 24		45°	10-16-32	14-21-38	18-26-42	21-32-46	25-35-50	28-38-53	34-42-60	38-46-65	41-50-70	43-53-75	46-56-80
Ac = 5.58 ft²	Flow Rate (cfm)		1674	2232	2790	3348	3906	4464	5580	6696	7812	8928	10044
72 x 12	Sound (NC)		-	16	22	27	32	36	42	47	52	56	59
60 x 14	Throw (ft)	0°	21-35-69	31-46-83	39-58-92	46-69-101	54-77-109	62-83-117	75-92-130	83-101-143	89-109-154	95-117-165	101-124-175
48 x 18		15°	17-28-56	25-37-66	31-46-74	37-56-81	43-62-87	49-66-93	60-74-104	66-81-114	71-87-123	76-93-132	81-99-140
36 x 24		45°	11-17-35	15-23-41	19-29-46	23-35-51	27-39-55	31-41-58	38-46-65	41-51-71	45-55-77	48-58-83	51-62-88
Ac = 6.25 ft²	Flow Rate (cfm)		1875	2500	3125	3750	4375	5000	6250	7500	8750	10000	11250
72 x 14	Sound (NC)		-	16	22	28	32	36	42	48	52	56	59
60 x 16	Throw (ft)	0°	23-37-74	33-49-87	41-61-98	49-74-107	57-82-116	65-87-124	80-98-138	87-107-151	94-116-163	101-124-175	107-131-185
48 x 20		15°	18-29-59	26-39-70	33-49-78	39-59-86	46-65-92	52-70-99	64-78-110	70-86-121	75-92-131	81-99-140	86-105-148
30 x 30		45°	11-18-37	16-25-44	20-31-49	25-37-53	29-41-58	33-44-62	40-49-69	44-53-76	47-58-82	50-62-87	53-65-93

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Air flow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. The NC values are based on a room absorption of 10dB, re 10^{-12} watts with a single register set at 0° deflection. For deflection settings of 15° and 45°, increase the listed sound levels by 1 and 12 respectively.
7. Blanks "-" indicate an NC level below 15.
8. **Deflection**
   The listed deflection settings refer to horizontal deflection. For a 15° upward deflection, use the room throw rating for a 0° setting and the total pressure for a 15° horizontal setting.
   The performance tables are based on units with an opposed blade damper.

Corrections for grilles without dampers

	0°	15°	45°
NC	-13	-13	-5
Total Pressure	x .82	x .83	x .93

PERFORMANCE DATA

MIG1 — 1 Module

Listed Size	Core Velocity (fpm)		300	400	500	600	700	800	1000	1200	1400	1600	1800
	Velocity Pressure (in. w.g.)		0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122	0.160	0.202
	Total Pressure (in. w.g.)	0°	0.009	0.016	0.025	0.035	0.049	0.063	0.097	0.141	0.192	0.251	0.317
		15°	0.010	0.017	0.027	0.037	0.052	0.067	0.104	0.150	0.204	0.267	0.337
		45°	0.020	0.033	0.052	0.072	0.101	0.130	0.202	0.293	0.397	0.520	0.657
8	Flow Rate (cfm)		110	146	183	219	256	292	365	438	511	584	657
	Sound (NC)		-	-	-	-	-	-	-	21	27	32	36
	Throw (ft)	0°	6-9-17	9-11-21	10-14-22	11-16-25	13-19-27	15-20-28	18-23-32	20-25-35	22-27-38	24-29-40	26-31-43
		15°	5-7-14	7-9-16	8-11-18	10-13-19	11-15-21	12-16-23	15-18-26	16-20-28	18-21-30	19-23-32	21-35-34
		45°	3-5-10	4-6-10	5-8-12	6-9-13	8-10-14	8-10-14	10-12-15	11-13-17	11-13-19	11-14-20	12-15-22
10	Flow Rate (cfm)		178	238	297	357	416	475	594	713	832	951	1070
	Sound (NC)		-	-	-	-	-	-	16	22	28	33	38
	Throw (ft)	0°	7-11-22	10-15-26	13-18-28	15-22-31	17-25-34	20-27-37	24-29-42	27-32-45	28-35-47	20-37-51	32-40-54
		15°	6-10-17	9-12-20	10-15-23	12-17-25	14-20-28	16-21-29	19-24-33	21-26-35	23-28-39	24-29-42	26-31-44
		45°	4-6-11	5-8-13	7-10-15	8-11-15	10-12-17	10-13-18	12-15-20	13-15-22	13-17-24	15-18-26	15-19-27
12	Flow Rate (cfm)		264	352	439	527	615	703	879	1055	1230	1406	1582
	Sound (NC)		-	-	-	-	-	-	17	23	29	34	39
	Throw (ft)	0°	8-14-28	13-18-31	16-23-36	16-23-36	22-30-41	25-32-44	29-36-51	32-40-54	34-42-58	37-45-63	39-48-66
		15°	6-11-22	10-15-25	13-18-29	13-18-29	17-24-33	20-26-35	24-29-40	26-31-43	28-34-46	29-36-50	31-39-53
		45°	5-7-14	6-9-16	8-12-17	8-12-17	11-15-21	13-16-22	15-18-25	16-19-27	17-21-29	18-22-31	19-24-33
15	Flow Rate (cfm)		423	564	705	846	987	1128	1410	1692	1974	2256	2538
	Sound (NC)		-	-	-	-	-	-	18	25	30	35	40
	Throw (ft)	0°	11-18-34	16-23-40	19-29-44	23-35-48	27-38-53	31-40-56	37-44-61	40-49-68	42-53-73	45-56-79	49-60-84
		15°	9-14-28	13-19-32	15-24-36	18-28-39	22-30-42	25-32-44	30-35-49	32-39-54	34-42-59	36-45-63	39-48-67
		45°	6-9-17	8-12-20	10-15-22	12-17-24	14-19-26	16-20-27	19-22-31	20-25-34	21-27-37	23-28-39	24-29-42

MIG2 — 2 Module

Listed Size	Core Velocity (fpm)		300	400	500	600	700	800	1000	1200	1400	1600	1800
	Velocity Pressure (in. w.g.)		0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122	0.160	0.202
	Total Pressure (in. w.g.)	0°	0.009	0.016	0.025	0.035	0.049	0.063	0.097	0.141	0.192	0.251	0.317
		15°	0.010	0.017	0.027	0.037	0.052	0.067	0.104	0.150	0.204	0.267	0.337
		45°	0.020	0.033	0.052	0.072	0.101	0.130	0.202	0.293	0.397	0.520	0.657
8	Flow Rate (cfm)		219	292	365	438	511	584	730	876	1022	1168	1314
	Sound (NC)		-	-	-	-	-	-	16	23	29	34	38
	Throw (ft)	0°	8-13-25	12-17-28	15-22-32	18-25-35	20-27-38	23-29-40	26-32-45	29-36-49	31-38-53	33-40-56	35-43-59
		15°	06-10-20	10-14-23	12-18-26	14-20-28	16-27-30	18-23-32	21-26-36	23-29-39	25-30-42	26-32-45	28-34-47
		45°	04-07-13	06-09-14	08-01-16	9-13-18	10-14-19	12-15-20	13-16-23	15-18-25	15-19-27	17-20-28	18-22-30
10	Flow Rate (cfm)		357	475	594	713	832	951	1188	1426	1664	1901	2139
	Sound (NC)		-	-	-	-	-	-	17	24	30	35	39
	Throw (ft)	0°	9-16-31	14-21-37	17-26-40	21-32-44	25-35-48	29-37-52	33-41-57	37-44-62	40-48-67	41-52-72	44-54-76
		15°	7-13-25	11-17-29	14-20-32	17-26-35	20-28-39	23-29-41	27-33-46	29-35-50	31-38-54	33-41-57	35-43-61
		45°	05-07-16	07-10-18	9-13-20	11-16-22	12-17-24	14-19-26	17-20-29	19-22-31	20-24-34	21-26-36	22-28-38
12	Flow Rate (cfm)		527	703	879	1055	1230	1406	1758	2109	2461	2813	3164
	Sound (NC)		-	-	-	-	-	-	18	25	31	36	40
	Throw (ft)	0°	12-19-39	17-26-44	22-32-51	27-40-54	29-42-58	34-45-63	41-51-70	44-55-77	48-60-83	52-63-89	55-67-95
		15°	9-16-31	14-20-35	17-26-40	21-31-43	24-34-46	28-36-50	33-40-56	35-44-62	39-48-66	41-51-72	44-53-75
		45°	06-10-19	8-13-22	11-16-25	13-19-27	15-21-29	17-22-31	20-25-35	22-28-39	24-29-41	26-32-44	28-34-47
15	Flow Rate (cfm)		846	1128	1410	1692	1974	2256	2820	3384	3948	4513	5077
	Sound (NC)		-	-	-	-	-	-	20	27	32	37	42
	Throw (ft)	0°	15-24-48	21-31-55	27-39-62	32-46-67	37-52-73	41-56-78	51-63-87	55-69-96	60-75-103	64-80-112	68-86-118
		15°	12-19-39	17-25-44	21-31-50	26-37-53	29-42-58	33-45-63	40-50-70	44-55-76	48-60-83	52-64-90	54-68-94
		45°	07-12-24	11-16-28	13-19-30	16-23-34	18-26-37	21-28-39	26-31-43	28-34-48	30-37-52	32-40-56	34-42-59

See Performance Notes at end of section.

PERFORMANCE DATA

MIG3 — 3 Module

Listed Size	Core Velocity (fpm)		300	400	500	600	700	800	1000	1200	1400	1600	1800
	Velocity Pressure (in. w.g.)		0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122	0.160	0.202
	Total Pressure (in. w.g.)	0°	0.008	0.014	0.023	0.031	0.042	0.056	0.087	0.126	0.171	0.223	0.283
		15°	0.009	0.015	0.025	0.035	0.047	0.063	0.097	0.142	0.192	0.249	0.318
		45°	0.013	0.023	0.038	0.052	0.071	0.095	0.147	0.213	0.288	0.376	0.478
8	Flow Rate (cfm)		329	438	548	657	767	876	1095	1314	1533	1752	1971
	Sound (NC)		-	-	-	-	-	-	17	24	30	35	39
	Throw (ft)	0°	9-15-29	14-20-35	17-26-39	20-30-42	24-33-45	27-35-49	32-40-54	35-45-59	38-46-63	40-49-68	42-62-73
		15°	07-12-24	11-17-28	13-20-31	17-24-34	19-27-36	21-28-39	26-31-43	28-34-47	30-37-51	31-39-59	34-42-58
		45°	05-07-15	06-10-17	8-13-19	10-16-21	12-17-23	13-17-24	16-19-27	17-21-29	18-23-32	20-25-34	21-26-37
10	Flow Rate (cfm)		535	713	891	1070	1248	1426	1783	2139	2496	2852	3209
	Sound (NC)		-	-	-	-	-	-	19	25	31	36	40
	Throw (ft)	0°	12-19-39	17-26-44	22-32-51	27-40-59	29-42-58	34-45-63	41-51-70	44-55-77	48-60-83	52-63-89	55-67-95
		15°	9-16-31	14-20-35	17-26-40	21-31-43	24-34-46	28-36-50	33-40-56	35-44-62	39-48-66	41-51-72	44-53-75
		45°	06-10-19	8-13-22	11-16-25	13-19-27	15-21-29	17-22-31	20-25-35	22-28-39	24-29-41	26-32-44	28-34-47
12	Flow Rate (cfm)		791	1055	1318	1582	1846	2109	2637	3164	3691	4219	4746
	Sound (NC)		-	-	-	-	-	-	20	26	32	37	41
	Throw (ft)	0°	15-24-46	22-32-54	27-40-59	32-47-65	38-51-71	42-54-76	50-61-85	54-67-93	58-72-101	63-78-108	66-83-115
		15°	12-19-32	18-26-43	22-32-47	26-38-52	30-41-57	34-43-61	40-49-68	43-54-74	46-58-81	50-62-86	53-66-92
		45°	08-12-23	11-16-27	14-20-30	16-24-33	19-26-36	21-27-38	25-31-43	27-34-47	29-36-51	32-39-54	33-42-58
15	Flow Rate (cfm)		1269	1692	2115	2538	2961	3384	4230	5077	5923	6769	7615
	Sound (NC)		-	-	-	-	-	-	21	28	33	38	43
	Throw (ft)	0°	17-29-59	26-38-68	32-46-76	39-55-84	45-65-90	52-70-98	63-78-109	70-86-120	75-94-129	81-99-137	85-106-145
		15°	14-23-47	21-30-54	26-37-61	31-44-67	36-52-72	47-56-78	50-62-87	56-69-96	60-75-103	65-79-110	68-85-116
		45°	9-15-30	13-19-34	16-23-38	20-28-42	23-33-45	26-35-49	32-39-55	35-43-60	38-47-65	41-50-69	43-53-73

MIG4 — 4 Module

Listed Size	Core Velocity (fpm)		300	400	500	600	700	800	1000	1200	1400	1600	1800
	Velocity Pressure (in. w.g.)		0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122	0.160	0.202
	Total Pressure (in. w.g.)	0°	0.008	0.014	0.023	0.031	0.042	0.056	0.087	0.126	0.171	0.223	0.283
		15°	0.009	0.015	0.025	0.035	0.047	0.063	0.097	0.142	0.192	0.249	0.318
		45°	0.013	0.023	0.038	0.052	0.071	0.095	0.147	0.213	0.288	0.376	0.478
8	Flow Rate (cfm)		438	584	730	876	1022	1168	1460	1752	2044	2336	2628
	Sound (NC)		-	-	-	-	-	-	18	25	31	36	40
	Throw (ft)	0°	11-18-35	16-24-40	20-31-45	24-36-49	28-38-53	32-41-56	37-45-63	40-50-69	43-54-75	46-57-80	49-61-85
		15°	9-14-28	13-19-32	16-25-36	19-29-39	22-30-42	16-33-45	30-36-50	32-40-55	34-43-60	37-46-64	39-49-68
		45°	6-9-18	8-12-20	10-16-23	12-18-25	14-19-26	16-21-28	19-23-32	20-25-35	22-27-38	23-29-40	25-31-43
10	Flow Rate (cfm)		713	951	1188	1426	1664	1901	2377	2852	3327	3803	4278
	Sound (NC)		-	-	-	-	-	-	19	26	32	37	41
	Throw (ft)	0°	14-23-45	20-30-52	25-37-57	29-44-63	32-50-68	40-52-74	48-59-82	52-64-89	56-70-98	60-75-104	64-80-110
		15°	11-18-36	16-24-42	20-30-46	23-35-50	26-40-54	32-42-59	38-47-66	42-51-71	45-56-78	48-60-83	51-64-88
		45°	7-12-23	10-15-26	13-19-29	15-22-32	16-25-34	20-26-37	24-30-41	26-32-45	28-35-49	30-38-52	32-40-55
12	Flow Rate (cfm)		1055	1406	1758	2109	2461	2813	3516	4219	4922	5625	6328
	Sound (NC)		-	-	-	-	-	-	20	27	33	38	42
	Throw (ft)	0°	17-27-54	24-35-63	29-43-70	35-52-77	40-60-83	47-63-89	58-72-99	63-79-109	69-86-118	74-91-126	79-97-134
		15°	14-22-43	19-28-50	23-34-56	28-42-62	32-48-66	38-50-71	46-58-79	50-63-87	55-69-94	59-73-101	63-78-107
		45°	9-14-27	12-18-32	15-22-35	18-26-39	20-30-42	24-32-45	29-36-50	32-40-55	35-43-59	37-46-63	40-49-67
15	Flow Rate (cfm)		1692	2256	2820	3384	3948	4513	5641	6769	7897	9025	10153
	Sound (NC)		-	-	-	-	-	-	22	28	34	39	43
	Throw (ft)	0°	20-33-67	29-43-78	37-54-87	43-66-96	51-75-104	58-80-112	73-89-124	80-98-136	86-107-147	92-115-157	98-121-166
		15°	11-26-54	23-34-62	30-43-70	34-53-77	41-60-83	46-64-90	58-71-99	64-78-109	69-86-118	74-92-126	78-97-133
		45°	10-17-34	15-22-39	19-27-44	22-33-48	26-38-52	29-40-56	37-45-62	40-49-68	43-54-74	46-58-79	49-61-83

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Air flow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. The NC values are based on a room absorption of 10dB, re 10^{-12} watts with a single register set at 0° deflection.
7. Blanks "-" indicate an NC level below 15.
8. For deflection settings of 15° and 45°, increase the listed sound by 1 and 12 respectively.

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