

09

SUPPLY AIR GRILL

01 02 03 04 05 06 07 08 09 10 11 12 13



@Performance

QATIF - AUJAM INDUSTRIAL
AREA DHAHRAN - JUBAIL HI WAY
P.O. BOX 10848 - QATIF 31911

القطيف - صناعية الأوجام - طريق الظهران الجبيل السريع - ص.ب ١٠٨٤٨ - القطيف ٣١٩١١

PERFORMANCE
for Metal Production
مصنع واحدة الإنجاز للصناعات المعدنية



SUPPLY AIR GRILL

company
profile
2022

SUPPLY AIR GRILL



@Performance

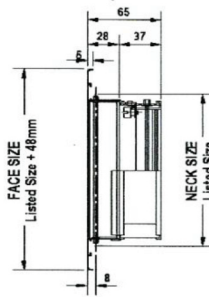
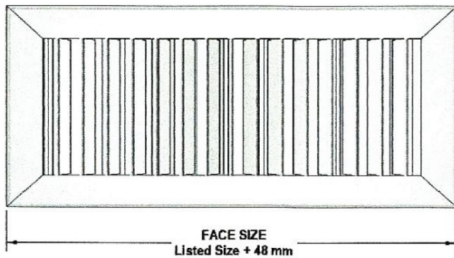
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القطيف - صناعية الأوجام - طريق الظهران الجبيل السريع - ص.ب ١٠٨٤٨ - القطيف ٣١٩١١

supply air grill

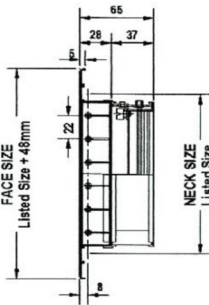
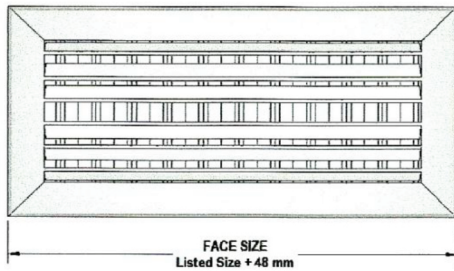
SUPPLY AIR GRELLE

Extruded Aluminum Single Deflection Supply Grilles and Registers



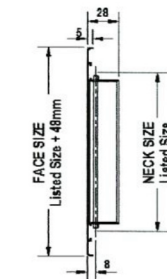
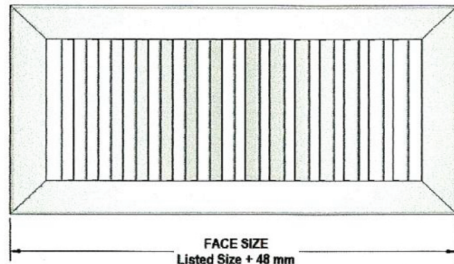
MODEL : SDG-1V

Series SDG-1V single deflection supply air registers with one (1) set of bars parallel to short dimension are recommended for applications requiring pattern adjustability in a single horizontal plane. With Aluminum Opposed blade damper operable from the grille face.



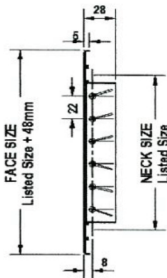
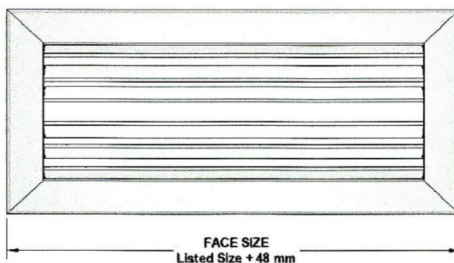
MODEL : SDG-1L

Series SDG-1L single deflection supply air registers with one (1) set of bars parallel to long dimension are recommended for applications requiring pattern adjustability in a single horizontal plane. With Aluminum Opposed blade damper operable from the grille face.



MODEL : SRG-1V

Series SRG-1V single deflection supply air grilles with one (1) set of bars parallel to short dimension are recommended for applications requiring pattern adjustability in a single vertical plane.



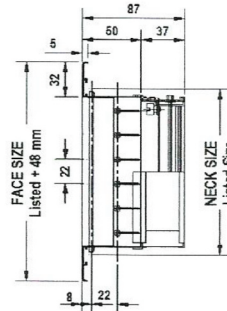
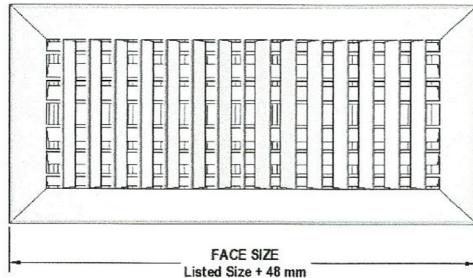
MODEL : SRG-1L

Series SRG-1L single deflection supply air grilles with one (1) set of bars parallel to long dimension are recommended for applications requiring pattern adjustability in a single horizontal plane.

supply air grill

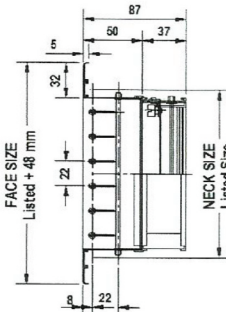
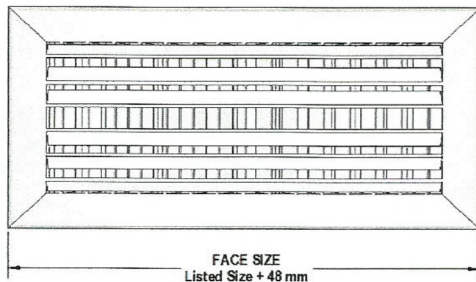
SUPPLY AIR REGISTER

Extruded Aluminum Double Deflection Supply Grilles and Registers



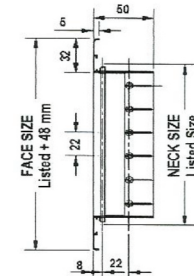
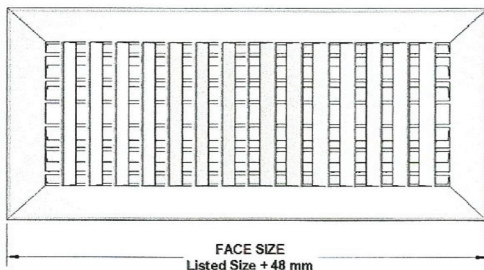
MODEL : SAR-2V

Series SAR-2V double deflection supply air registers with front set parallel to short dimension. Rear set parallel to long dimension. All bars individually adjustable for any degree of deflection. With Aluminum Opposed blade damper operable from the grille face.



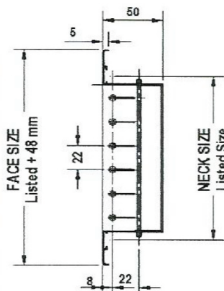
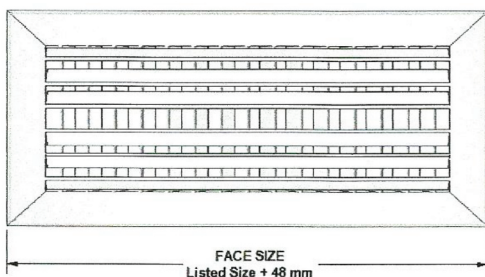
MODEL : SAR-2L

Series SAG-2L double deflection supply air registers with front set parallel to long dimension. Rear set parallel to short dimension. All bars individually adjustable for any degree of deflection. With Aluminum Opposed blade damper operable from the grille face.



MODEL : SAG-2V

Series SAG-2V double deflection supply air registers with front set parallel to short dimension. Rear set parallel to long dimension. All bars individually adjustable for any degree of deflection.



MODEL : SAG-2L

Series SAG-2L double deflection supply air registers with front set parallel to long dimension. Rear set parallel to short dimension. All bars individually adjustable for any degree of deflection.

supply air grill

PRODUCT FEATURES

MODEL : SRG-1L

Series **SRG-1L** single deflection supply air grilles with one (1) set of bars parallel to long dimension are recommended for applications requiring pattern adjustability in a single horizontal plane.

MODEL : SRG-1V

Series **SRG-1V** single deflection supply air grilles with one (1) set of bars parallel to short dimension are recommended for applications requiring pattern adjustability in a single vertical plane.

FRAME

Heavy gauge extruded aluminum mechanically interlocked with hairline corners, 1 1/4" (32mm) wide margin frame. Furnish with pierced screw holes for mounting screws or conceal type mounting.

BLADES

Extruded aluminum blades on 3/4" (19mm) center with tadpole type cross section for minimum turbulence. Reinforces above 18" in. length with aluminum reinforcement bars. Grille blades are easily pivotal on a plastic bushing for rattling-free performance and provides patterns with 0° TO 100° horizontal arc and up to 30° deflection up or down.

FINISH

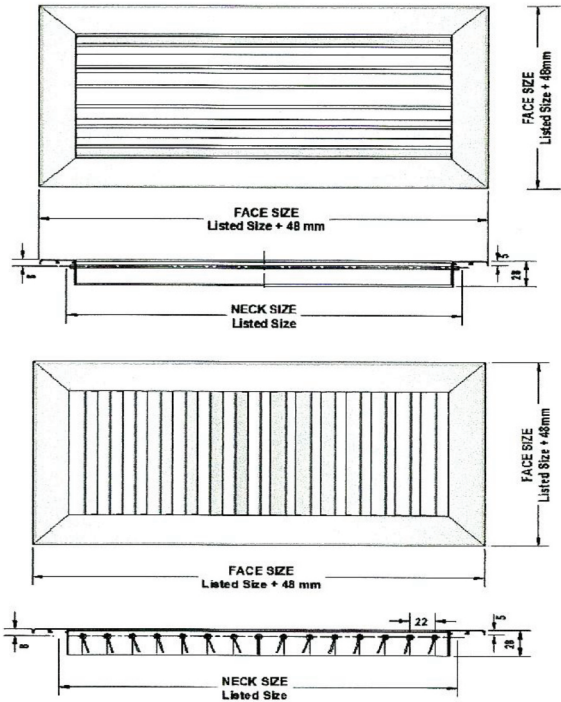
Aluminum anodized , Std. **RAL 9016 White**, or **RAL 9010 Off-White** Powder coated finish available.

Listed Sizes : (Quick Guide) NC 20 - 30

Size (in.)	CFM Range (NC 20-30)	Size (in.)	CFM Range (NC 20-30)	Size (in.)	CFM Range (NC 20-30)	Size (in.)	CFM Range (NC 20-30)
8 x 4	50 - 180	34 x 6	355 - 825	14 x 10	245 - 650	14 x 14	355 - 825
10 x 4	65 - 220	36 x 6	480 - 940	16 x 10	270 - 720	16 x 14	480 - 940
12 x 4	80 - 210	8 x 8	115 - 310	18 x 10	300 - 800	18 x 14	480 - 1120
16 x 4	100 - 270	10 x 8	140 - 370	20 x 10	355 - 825	24 x 14	625 - 1460
18 x 4	115 - 310	12 x 8	180 - 480	24 x 10	480 - 1120	26 x 14	735 - 1720
20 x 4	140 - 370	14 x 8	205 - 550	36 x 10	625 - 1460	36 x 14	935 - 1870
24 x 4	155 - 415	16 x 8	245 - 650	48 x 10	935 - 1870	48 x 14	1290 - 2570
8 x 6	80 - 210	18 x 8	270 - 720	12 x 12	270 - 720	16 x 16	480 - 1120
10 x 6	100 - 270	24 x 8	355 - 825	16 x 12	355 - 825	20 x 16	625 - 1460
12 x 6	115 - 310	30 x 8	480 - 1120	18 x 12	480 - 940	24 x 16	735 - 1720
16 x 6	155 - 415	40 x 8	625 - 1460	22 x 12	480 - 1120	30 x 16	935 - 1870
18 x 6	180 - 480	48 x 8	735 - 1720	30 x 12	625 - 1460	48 x 16	1400 - 2790
20 x 6	205 - 550	10 x 10	180 - 480	32 x 12	735 - 1720	18 x 18	625 - 1460
22 x 6	245 - 650	12 x 10	100 - 300	40 x 12	935 - 1870	20 x 20	735 - 1720
26 x 6	270 - 720	12 x 10	205 - 550	48 x 12	1080 - 2170	24 x 24	1080 - 2170

NOTE:

The NC values are based on a room absorption of 10dB, re 10⁻¹² watts, with a single register operating at a 0 degree deflection setting.



HOW TO ORDER :

- TYPE
- LISTED SIZE (W x H)
- FINISH

LISTED SIZES :

MIN. SIZE = 8" x 4"
MAX. SIZE = 30" x 16"

supply air grill

PRODUCT FEATURES

MODEL : SDG-1L

Series SDG-1L single deflection supply air registers with one (1) set of bars parallel to long dimension are recommended for applications requiring pattern adjustability in a single horizontal plane.

MODEL : SDG-1V

Series SDG-1V single deflection supply air registers with one (1) set of bars parallel to short dimension are recommended for applications requiring pattern adjustability in a single horizontal plane.

FRAME

Heavy gauge extruded aluminum mechanically interlocked with hairline corners, 1 1/4" (32mm) wide margin frame. Furnish with pierced screw holes for mounting screws or conceal type mounting.

BLADES

Extruded aluminum blades on 3/4" (19mm) center with tadpole type cross section for minimum turbulence. Reinforces above 18" length with aluminum reinforcement bars. Grille blades are easily pivotal on a plastic bushing for rattling-free performance and provides patterns with 0° to 100° horizontal arc and up to 30° deflection up or down.

INTEGRAL DAMPERS

Opposed blade aluminum dampers with key operator, and screw driver operable on grille face.

FINISH :

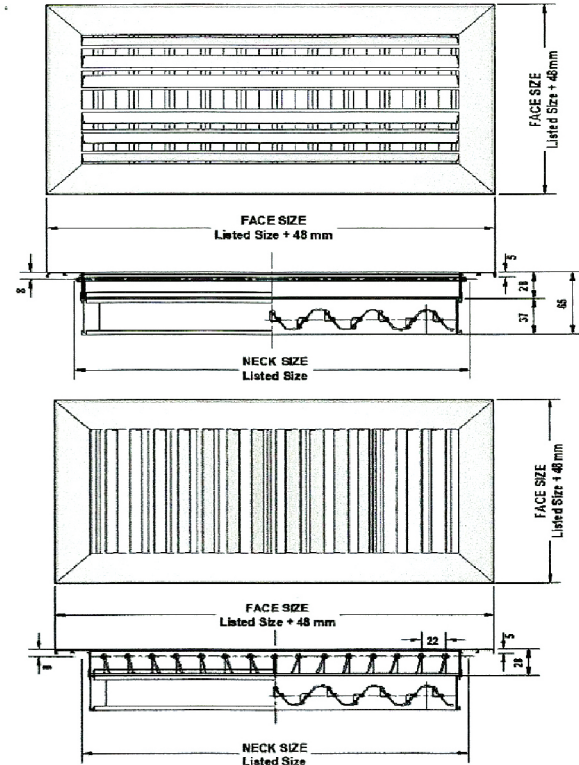
Aluminum anodized , Std. RAL 9016 White, or RAL 9010 Off-White Powder coated finish available. DAMPER: Black Powder coated finish.

Listed Sizes : (Quick Guide) NC 20 - 30

Size (in.)	CFM Range (NC 20-30)	Size (in.)	CFM Range (NC 20-30)	Size (in.)	CFM Range (NC 20-30)	Size (in.)	CFM Range (NC 20-30)
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12 x 4	80 - 210	8 x 8	115 - 310	18 x 10	300 - 800	18 x 14	480 - 1120
16 x 4	100 - 270	10 x 8	140 - 370	20 x 10	355 - 825	24 x 14	625 - 1460
18 x 4	115 - 310	12 x 8	180 - 480	24 x 10	480 - 1120	26 x 14	735 - 1720
20 x 4	140 - 370	14 x 8	205 - 550	36 x 10	625 - 1460	36 x 14	935 - 1870
24 x 4	155 - 415	16 x 8	245 - 650	48 x 10	935 - 1870	48 x 14	1290 - 2570
8 x 6	80 - 210	18 x 8	270 - 720	12 x 12	270 - 720	16 x 16	480 - 1120
10 x 6	100 - 270	24 x 8	355 - 825	16 x 12	355 - 825	20 x 16	625 - 1460
12 x 6	115 - 310	30 x 8	480 - 1120	18 x 12	480 - 940	24 x 16	735 - 1720
16 x 6	155 - 415	40 x 8	625 - 1460	22 x 12	480 - 1120	30 x 16	935 - 1870
18 x 6	180 - 480	48 x 8	735 - 1720	30 x 12	625 - 1460	48 x 16	1400 - 2790
20 x 6	205 - 550	10 x 10	180 - 480	32 x 12	735 - 1720	18 x 18	625 - 1460
22 x 6	245 - 650	12 x 10	100 - 300	40 x 12	935 - 1870	20 x 20	735 - 1720
26 x 6	270 - 720	12 x 10	205 - 550	48 x 12	1080 - 2170	24 x 24	1080 - 2170

NOTE:

The NC values are based on a room absorption of 10dB, re 10⁻¹² watts, with a single register operating at a 0 degree deflection setting.



HOW TO ORDER :

- TYPE
- LISTED SIZE (W x H)
- FINISH

LISTED SIZES :

MIN. SIZE = 8" x 4"
MAX. SIZE = 30" x 16"

supply air grill

SAPPLY AIR GRILLE

PRODUCT FEATURES

MODEL : SAG-2L

Series SAG-2L double deflection supply air registers with front set parallel to long dimension. Rear set parallel to short dimension. All bars are individually adjustable to any degree of deflection.

MODEL : SAG-2V

Series SAG-2V double deflection supply air registers with front set parallel to Short dimension. Rear set parallel to Long dimension. All bars are individually adjustable to any degree of deflection.

FRAME

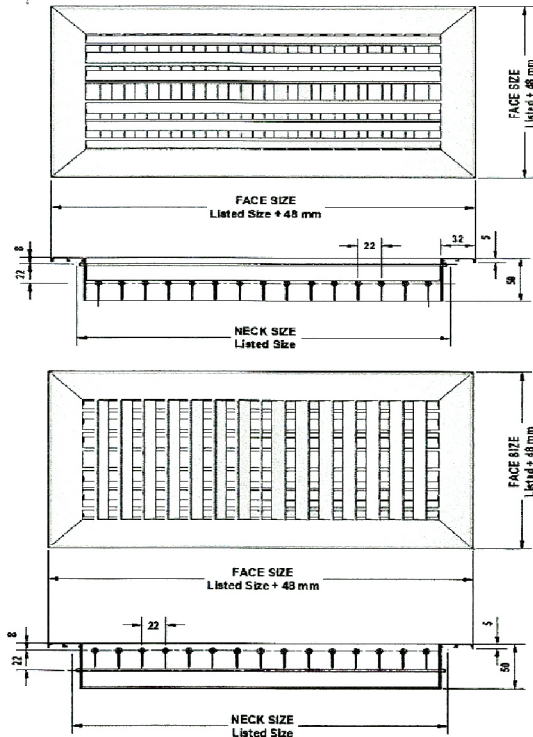
Heavy gauge extruded aluminum mechanically interlocked with hairline corners, 1 1/4" (32mm) wide margin frame. Furnish with pierced screw holes for mounting screws or conceal type mounting.

BLADES

Extruded aluminum blades on 3/4" (19mm) center with tadpole type cross section for minimum turbulence. Reinforces above 18" in. length with aluminum reinforcement bars. Grille blades are easily pivotal on a plastic bushing for rattling-free performance and provides patterns with 0° to 100° horizontal arc and up to 30° deflection up or down.

FINISH

Aluminum anodized , Std. RAL 9016 White, or RAL 9010 Off-White Powder coated finish available.



HOW TO ORDER :

- TYPE
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- FINISH

LISTED SIZES :

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12 x 4	80 – 210	8 x 8	115 – 310	18 x 10	300 – 800	18 x 14	480 – 1120
16 x 4	100 – 270	10 x 8	140 – 370	20 x 10	355 – 825	24 x 14	625 – 1460
18 x 4	115 – 310	12 x 8	180 – 480	24 x 10	480 – 1120	26 x 14	735 – 1720
20 x 4	140 – 370	14 x 8	205 – 550	36 x 10	625 – 1460	36 x 14	935 – 1870
24 x 4	155 – 415	16 x 8	245 – 650	48 x 10	935 – 1870	48 x 14	1290 – 2570
8 x 6	80 – 210	18 x 8	270 – 720	12 x 12	270 – 720	16 x 16	480 – 1120
10 x 6	100 – 270	24 x 8	355 – 825	16 x 12	355 – 825	20 x 16	625 – 1460
12 x 6	115 – 310	30 x 8	480 – 1120	18 x 12	480 – 940	24 x 16	735 – 1720
16 x 6	155 – 415	40 x 8	625 – 1460	22 x 12	480 – 1120	30 x 16	935 – 1870
18 x 6	180 – 480	48 x 8	735 – 1720	30 x 12	625 – 1460	48 x 16	1400 – 2790
20 x 6	205 – 550	10 x 10	180 – 480	32 x 12	735 – 1720	18 x 18	625 – 1460
22 x 6	245 – 650	12 x 10	100 – 300	40 x 12	935 – 1870	20 x 20	735 – 1720
26 x 6	270 – 720	12 x 10	205 – 550	48 x 12	1080 – 2170	24 x 24	1080 – 2170

NOTE:

The NC values are based on a room absorption of 10dB, re 10⁻¹² watts, with a single register operating at a 0 degree deflection setting.

supply air grill

SUPPLY AIR REGISTER

PRODUCT FEATURES

MODEL : SAR-2L

Series /SAR-2L double deflection supply air registers with front set parallel to long dimension. Rear set parallel to short dimension. All bars individually adjustable for any degree of deflection.

MODEL : SAR-2V

Series SAR-2V double deflection supply air registers with front set parallel to short dimension. Rear set parallel to long dimension. All bars individually adjustable for any degree of deflection.

FRAME

Heavy gauge extruded aluminum mechanically interlocked with hairline corners, 1 1/4" (32mm) wide margin frame. Furnish with pierced screw holes for mounting screws or conceal type mounting.

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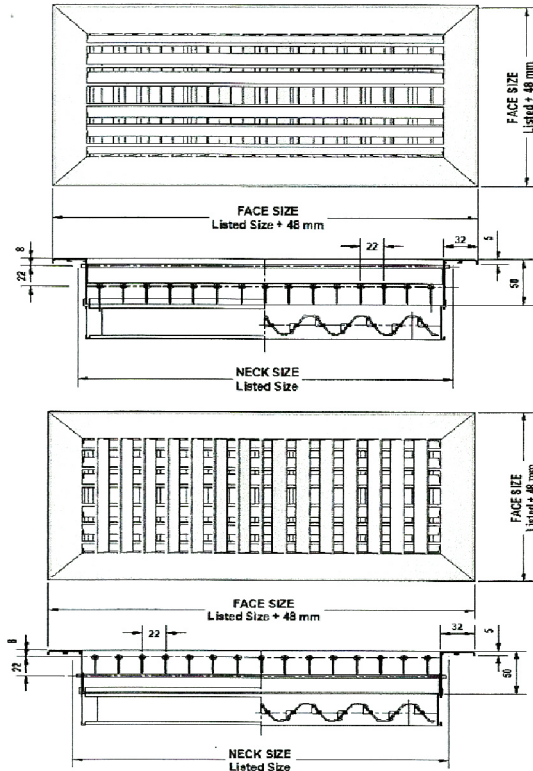
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18 x 4	115 - 310	12 x 8	180 - 480	24 x 10	480 - 1120	26 x 14	735 - 1720
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24 x 4	155 - 415	16 x 8	245 - 650	48 x 10	935 - 1870	48 x 14	1290 - 2570
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10 x 6	100 - 270	24 x 8	355 - 825	16 x 12	355 - 825	20 x 16	625 - 1460
12 x 6	115 - 310	30 x 8	480 - 1120	18 x 12	480 - 940	24 x 16	735 - 1720
16 x 6	155 - 415	40 x 8	625 - 1460	22 x 12	480 - 1120	30 x 16	935 - 1870
18 x 6	180 - 480	48 x 8	735 - 1720	30 x 12	625 - 1460	48 x 16	1400 - 2790
20 x 6	205 - 550	10 x 10	180 - 480	32 x 12	735 - 1720	18 x 18	625 - 1460
22 x 6	245 - 650	12 x 10	100 - 300	40 x 12	935 - 1870	20 x 20	735 - 1720
26 x 6	270 - 720	12 x 10	205 - 550	48 x 12	1080 - 2170	24 x 24	1080 - 2170

NOTE:

The NC values are based on a room absorption of 10dB, re 10⁻¹² watts, with a single register operating at a 0 degree deflection setting.



HOW TO ORDER :

- TYPE
- LISTED SIZE (W x H)
- FINISH

LISTED SIZES :

MIN. SIZE = 8" x 4"
MAX. SIZE = 30" x 16"

supply air grill

MODEL : SDG-1L ; SDG-1V ; SAG-2L ; SAG-2V ; SAR-2L ; SAR-2V

PERFORMANCE DATA

Core, Area, Square Feet	Nominal Duct Size, Inches	NC-20						NC-30			NC-40		
		Core Vel.	300	400	500	600	700	800	1000	1200	1400	1600	1800
		Vel. Press.	.006	.010	.016	.022	.030	.040	.062	.090	.122	.159	.202
		0°	.017	.029	.047	.065	.088	.117	.181	.265	.358	.467	.593
	Throw, Feet	22½°	.019	.032	.052	.073	.096	.132	.204	.297	.403	.523	.666
		45°	.027	.049	.080	.109	.149	.199	.307	.447	.605	.788	1.000
12	6 × 4	CFM	35	50	60	70	85	95	120	140	165	190	210
		NC	—	—	—	12	18	22	28	34	39	43	46
		0°	4-6-12	5-8-14	7-10-16	8-12-17	9-13-19	11-14-20	13-16-22	14-17-24	15-19-26	16-20-28	17-22-30
		22½°	3-5-10	4-6-11	6-8-13	6-10-14	7-10-15	9-11-16	10-13-18	11-14-19	12-15-21	13-16-22	14-18-24
	Throw, Feet	45°	2-3-6	3-4-7	3-5-8	4-6-9	5-7-9	5-7-10	6-8-11	7-9-12	8-9-13	8-10-14	9-11-15
18	8 × 4 6 × 6	CFM	55	70	90	110	125	145	180	215	250	290	325
		NC	—	—	—	15	20	24	30	36	41	45	48
		0°	4-7-13	6-8-15	7-11-17	9-13-19	10-15-20	11-16-22	14-17-24	15-19-26	17-21-29	18-22-31	19-24-33
		22½°	3-6-10	5-6-12	6-9-14	7-10-15	8-12-16	9-13-18	11-14-19	12-15-21	14-17-23	14-18-25	15-19-26
	Throw, Feet	45°	2-3-7	3-4-8	4-5-9	4-7-10	5-7-10	6-8-11	7-9-12	8-10-13	8-10-14	9-11-15	10-12-16
22	10 × 4 7 × 6	CFM	65	90	110	130	155	175	220	265	310	350	395
		NC	—	—	—	15	20	24	30	36	41	45	48
		0°	4-7-14	7-10-17	8-12-19	9-15-21	11-16-23	13-17-24	16-19-27	17-21-29	19-23-32	20-25-34	21-26-36
		22½°	3-6-11	6-8-14	6-10-15	7-12-17	9-13-18	10-14-19	13-15-22	14-17-23	15-18-25	16-20-27	17-21-29
	Throw, Feet	45°	2-4-7	3-5-9	4-6-10	5-7-10	6-8-11	6-9-12	8-10-13	9-11-15	9-12-16	10-12-17	11-13-18
26	12 × 4 8 × 6	CFM	80	105	130	155	180	210	260	310	365	415	470
		NC	—	—	—	16	21	25	31	37	42	46	49
		0°	5-8-16	7-11-19	9-13-21	10-16-23	12-17-24	14-19-26	17-21-29	19-23-32	20-25-35	22-26-37	23-27-40
		22½°	4-6-13	6-9-15	7-10-17	8-13-18	10-14-19	11-15-21	14-17-23	15-18-26	16-20-28	18-21-30	18-22-32
	Throw, Feet	45°	3-4-8	4-5-9	4-7-10	5-8-11	6-9-12	7-9-13	8-11-15	9-12-16	10-13-17	11-13-18	12-14-20
34	16 × 4 10 × 6	CFM	100	135	170	205	240	270	340	410	475	545	610
		NC	—	—	—	16	21	25	31	37	42	46	49
		0°	5-9-18	8-12-21	10-15-24	12-19-26	14-20-28	16-22-30	20-24-33	22-26-37	23-28-40	25-30-42	26-32-45
		22½°	4-7-14	6-10-17	8-12-19	10-15-21	11-16-22	13-18-24	16-19-26	18-21-30	18-22-32	20-24-34	21-26-36
	Throw, Feet	45°	3-4-9	4-6-11	5-8-12	6-9-13	7-10-14	8-11-15	10-12-17	11-13-18	12-14-20	12-15-21	13-16-22
39	18 × 4 12 × 6 8 × 8	CFM	115	155	195	235	275	310	390	470	545	625	700
		NC	—	—	12	17	22	26	32	38	43	47	50
		0°	6-9-19	9-13-23	11-16-25	13-19-28	15-22-30	17-23-32	21-26-36	23-27-40	25-30-42	27-33-45	28-35-48
		22½°	5-7-15	7-10-18	9-13-20	10-15-22	12-18-24	14-18-26	17-21-29	18-22-32	20-24-34	22-26-36	22-28-38
	Throw, Feet	45°	3-5-10	4-6-11	5-8-13	7-10-14	8-11-15	9-12-16	11-13-18	12-14-20	12-15-21	13-16-23	14-17-24

NC-50

supply air grill

MODEL : SDG-1L ; SDG-1V ; SAG-2L ; SAG-2V ; SAR-2L ; SAR-2V

PERFORMANCE DATA

Core, Area, Square Feet	Nominal Duct Size, Inches	NC-20				NC-30				NC-40				NC-50			
		Core Vel.	300	400	500	600	700	800	1000	1200	1400	1600	1800				
		Vel. Press.	.006	.010	.016	.022	.030	.040	.062	.090	.122	.159	.202				
		0°	.017	.029	.047	.065	.088	.117	.181	.265	.358	.467	.593				
		Total Press.	22½"	.019	.032	.052	.073	.098	.132	.204	.297	.403	.523				
		45°	.027	.049	.080	.109	.149	.199	.307	.447	.605	.788	1.000				
.46	20 × 4 14 × 6 10 × 8	CFM	140	185	230	275	320	370	460	550	645	735	830				
		NC	—	—	12	18	23	27	35	39	41	48	51				
		0°	7-10-22	9-14-25	12-17-27	14-22-30	16-23-32	19-25-35	23-27-39	25-31-43	27-33-46	29-35-49	31-38-52				
		22½"	6-8-18	7-11-20	10-14-22	11-18-24	13-18-26	15-20-28	18-22-31	20-25-34	22-26-37	23-28-39	25-30-42				
		45°	3-5-11	5-7-12	6-9-14	7-11-15	8-11-16	10-13-17	11-14-20	12-15-21	14-17-23	14-18-24	15-19-26				
.52	24 × 4 16 × 6	CFM	155	210	260	310	365	415	520	625	730	830	935				
		NC	—	—	13	19	24	28	36	40	42	49	52				
		0°	7-11-23	10-15-26	13-19-29	15-22-32	18-25-35	20-26-37	24-30-41	27-33-45	29-35-49	31-38-52	32-40-55				
		22½"	6-9-18	8-12-21	10-15-23	12-18-26	14-20-28	16-21-30	19-24-33	22-26-36	23-28-39	25-30-42	26-32-44				
		45°	3-5-11	5-7-13	6-9-15	8-11-16	9-12-17	10-13-18	12-15-21	13-16-23	14-18-24	15-19-26	16-20-28				
.60	28 × 4 18 × 6 12 × 8 10 × 10	CFM	180	240	300	360	420	480	600	720	840	960	1080				
		NC	—	—	14	20	25	29	37	41	43	50	53				
		0°	7-12-24	11-16-28	14-20-31	16-24-34	19-27-37	22-29-40	26-32-45	29-35-48	31-38-52	33-40-56	35-43-60				
		22½"	6-10-19	9-13-22	11-16-25	13-19-27	15-22-30	18-23-32	21-26-36	23-28-38	25-30-42	26-32-45	28-34-47				
		45°	4-6-12	5-8-14	7-10-16	8-12-17	10-13-19	11-14-20	13-16-22	14-17-24	15-19-26	16-20-28	17-21-29				
.69	30 × 4 20 × 6 14 × 8 12 × 10	CFM	205	275	345	415	485	550	690	830	965	1100	1240				
		NC	—	—	15	20	25	29	37	41	43	50	53				
		0°	8-13-26	12-17-30	15-22-34	18-26-37	21-29-40	24-31-43	28-34-47	30-38-52	33-40-56	35-43-60	37-45-63				
		22½"	6-10-21	10-14-24	12-18-27	14-21-30	17-23-32	19-25-34	22-27-38	24-30-42	26-32-45	28-34-48	30-36-50				
		45°	4-6-13	6-9-15	7-11-17	9-13-18	10-14-20	12-15-21	14-17-24	15-19-26	16-20-28	18-22-30	19-23-31				
.81	36 × 4 22 × 6 16 × 8 14 × 10	CFM	245	325	405	485	565	650	810	970	1130	1300	1460				
		NC	—	—	16	21	26	30	38	42	44	51	54				
		0°	8-14-28	13-19-33	16-23-37	19-28-40	23-31-43	26-33-46	30-37-51	33-41-56	36-44-60	38-46-64	40-49-68				
		22½"	6-11-22	10-15-26	13-18-30	15-22-32	18-25-34	21-26-37	24-30-41	26-33-45	29-35-48	30-37-51	32-39-54				
		45°	4-7-14	6-9-16	8-12-18	10-14-20	11-15-22	13-17-23	15-19-26	17-20-28	18-22-30	19-23-32	20-25-34				
.90	40 × 4 26 × 6 18 × 8 16 × 10 12 × 12	CFM	270	360	450	540	630	720	900	1080	1260	1440	1620				
		NC	—	—	16	21	26	30	38	42	44	51	54				
		0°	9-15-30	14-20-34	17-25-39	21-30-42	24-33-45	27-35-48	32-39-55	35-43-59	37-46-63	40-49-68	42-52-72				
		22½"	7-12-24	11-16-27	14-20-31	17-24-34	19-26-36	22-28-38	26-31-44	28-34-47	30-37-50	32-39-54	34-42-58				
		45°	5-8-15	7-10-17	9-13-19	10-15-21	12-16-23	14-17-24	16-20-27	17-21-29	19-23-32	20-24-34	21-26-36				
1.18	34 × 6 24 × 8 20 × 10 16 × 12 14 × 14	CFM	355	470	590	710	825	945	1180	1420	1650	1890	2120				
		NC	—	—	17	22	27	31	39	43	45	52	55				
		0°	10-17-34	15-23-40	19-28-44	23-35-48	27-38-52	31-40-56	36-45-62	40-48-67	43-52-73	45-56-78	48-59-83				
		22½"	8-14-27	12-18-32	15-22-35	18-28-38	22-30-42	25-32-45	29-36-50	32-38-54	34-42-58	36-45-62	38-47-66				
		45°	5-8-17	8-11-20	10-14-22	12-17-24	13-19-26	15-20-28	18-22-31	20-24-34	21-26-36	23-28-39	24-30-41				

supply air grill

MODEL : SDG-1L ; SDG-1V ; SAG-2L ; SAG-2V ; SAR-2L ; SAR-2V

PERFORMANCE DATA

		NC-20				NC-30				NC-40				NC-50			
Core, Area, Square Feet	Nominal Duct Size, Inches	Core Vel.	300	400	500	600	700	800	1000	1200	1400	1600	1800				
		Vel. Press.	.006	.010	.016	.022	.030	.040	.062	.090	.122	.159	.202				
		0"	.017	.029	.047	.065	.088	.117	.181	.265	.358	.467	.593				
		Total Press.	22½"	.019	.032	.052	.073	.098	.132	.204	.297	.403	.523	.666			
		45"	.027	.049	.080	.109	.149	.199	.307	.447	.605	.788	1.000				
1.34	36 × 6 18 × 12 16 × 14	CFM	400	535	670	805	940	1070	1340	1610	1880	2140	2410				
		NC	—	—	18	23	28	33	38	44	49	53	56				
		0"	11-18-36	16-24-42	20-30-47	24-37-51	28-40-56	32-43-59	39-47-65	42-52-72	45-56-78	48-60-83	51-63-89				
		22½"	9-14-29	13-19-34	16-24-38	19-30-41	22-32-45	26-34-47	31-38-52	34-42-58	36-45-62	38-48-66	41-50-71				
		45"	6-9-18	8-12-21	10-15-23	12-18-25	14-20-28	16-21-29	19-23-33	21-26-36	23-28-39	24-30-42	26-32-44				
1.60	30 × 8 24 × 10 22 × 12 18 × 14 16 × 16	CFM	480	640	800	960	1120	1280	1600	1920	2240	2560	2880				
		NC	—	—	18	2	28	33	38	44	49	53	56				
		0"	13-20-40	18-26-46	22-32-51	27-39-56	31-43-60	35-46-64	42-51-72	46-56-79	49-61-85	53-65-91	56-69-97				
		22½"	10-16-32	14-21-37	18-26-41	22-31-45	25-34-48	28-37-51	34-41-58	37-45-63	39-49-68	42-52-73	45-55-78				
		45"	6-10-20	9-13-23	11-16-25	13-20-28	15-22-30	17-23-32	21-26-36	23-28-39	25-30-43	26-32-46	28-35-48				
2.08	40 × 8 36 × 10 30 × 12 24 × 14 20 × 16 18 × 18	CFM	625	830	1040	1250	1460	1660	2080	2500	2910	3330	3740				
		NC	—	—	19	24	29	34	39	45	50	54	57				
		0"	14-23-45	20-30-52	26-38-58	30-44-63	35-49-68	40-53-73	48-59-82	52-64-90	56-69-97	60-75-104	64-79-110				
		22½"	11-18-36	16-24-42	21-30-46	24-35-50	28-39-54	32-42-58	38-47-66	42-51-72	45-55-78	48-60-83	51-63-88				
		45"	7-11-23	10-15-26	13-19-29	15-22-32	17-25-34	20-36-37	24-29-41	26-32-45	28-35-48	30-37-52	32-40-55				
2.45	48 × 8 32 × 12 26 × 14 24 × 16 20 × 18 20 × 20	CFM	735	980	1220	1470	1720	1960	2450	2940	3430	3920	4410				
		NC	—	—	20	25	30	35	40	46	51	55	58				
		0"	15-25-49	22-33-57	27-40-62	32-48-68	38-54-74	43-57-80	52-64-89	57-70-97	61-76-106	65-81-113	70-87-120				
		22½"	12-20-39	18-26-46	22-32-50	26-38-54	30-43-59	34-46-64	42-51-71	46-56-78	49-61-85	52-65-90	56-70-96				
		45"	7-12-24	11-16-28	14-20-31	16-24-34	19-27-37	22-28-40	26-32-45	28-35-49	32-38-53	33-42-56	35-43-60				
3.11	48 × 10 40 × 12 36 × 14 30 × 16 26 × 18 24 × 20	CFM	935	1240	1560	1870	2180	2490	3110	3730	4350	4980	5600				
		NC	—	14	21	26	31	35	41	47	52	56	59				
		0"	17-27-55	24-36-63	34-45-71	41-53-78	47-60-84	48-64-90	58-2-100	64-79-110	69-86-118	74-92-128	79-97-135				
		22½"	14-22-44	10-29-50	27-36-57	33-42-62	38-48-67	38-51-72	46-58-80	51-63-88	55-69-94	59-74-102	63-78-108				
		45"	8-14-28	12-18-31	17-22-35	20-26-39	23-30-42	24-32-45	29-36-50	32-40-55	35-43-59	37-46-64	40-49-67				
3.61	48 × 12 36 × 16 30 × 18 28 × 20 24 × 24	CFM	1080	1440	1800	2170	2530	2890	3610	4330	5050	5780	6500				
		NC	—	15	22	27	32	36	42	48	53	57	60				
		0"	18-29-59	26-38-68	32-47-76	38-56-84	44-65-90	51-69-97	63-78-108	69-86-118	75-93-128	80-99-137	86-105-146				
		22½"	14-23-47	21-30-54	26-38-61	30-45-67	35-52-72	41-55-78	50-62-86	55-69-94	60-74-102	60-79-110	69-84-117				
		45"	9-14-29	13-19-34	16-23-38	19-28-42	22-32-45	25-35-48	31-39-54	35-43-59	38-46-64	40-50-69	43-52-73				
4.29	48 × 14 36 × 18 32 × 20 28 × 24	CFM	1290	1720	2140	2570	3000	3430	4290	5150	6010	6860	7720				
		NC	—	16	23	28	33	37	43	49	54	58	61				
		0"	19-31-64	28-41-74	35-50-83	42-60-91	49-71-98	56-76-106	69-85-118	76-93-130	82-102-140	88-108-149	92-115-158				
		22½"	15-25-51	22-33-59	28-40-66	34-48-73	39-57-78	45-61-85	55-68-94	61-74-104	66-82-112	70-86-119	74-92-126				
		45"	10-15-32	14-20-37	17-25-42	21-30-46	24-35-49	28-38-53	34-43-59	38-47-65	41-51-70	44-54-75	46-57-79				

supply air grill

MODEL : SDG-1L ; SDG-1V ; SAG-2L ; SAG-2V ; SAR-2L ; SAR-2V

PERFORMANCE DATA

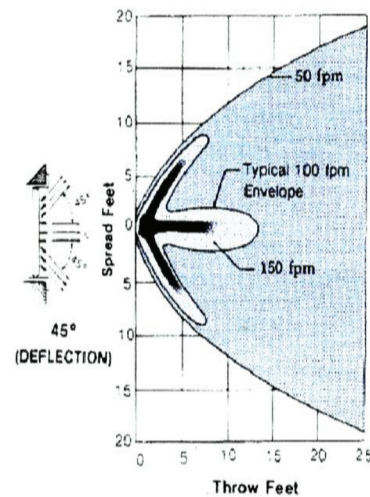
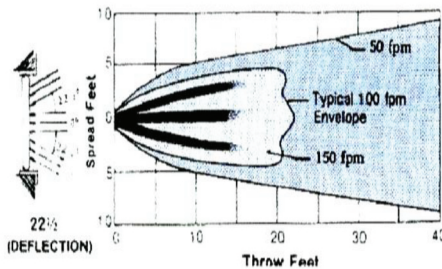
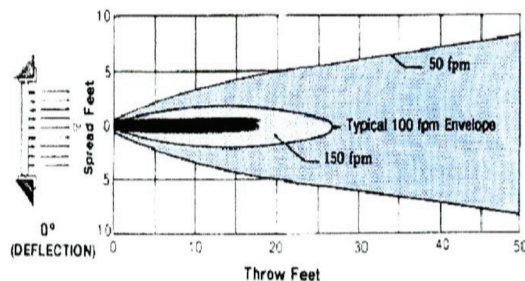
Core, Area, Square Feet	Nominal Duct Size, Inches	Core Vel.											
		NC-20			NC-30			NC-40			NC-50		
		300			400			500			600		
		Vel. Press.			0.06			0.10			0.16		
		0"			0.017			0.029			0.047		
		22½"			0.019			0.032			0.052		
		45"			0.027			0.049			0.080		
		Total Press.			0.017			0.029			0.047		
4.65	48 x 16 36 x 20 30 x 24	CFM			1400			1860			2320		
		NC			—			16			23		
		0°			20-33-67			29-43-78			36-54-87		
		Throw, Feet			16-26-54			23-34-62			29-43-70		
6.25	48 x 20 30 x 30	CFM			1880			2500			3120		
		NC			—			18			25		
		0°			23-37-78			33-49-90			42-62-100		
		Throw, Feet			18-30-62			26-39-72			34-50-80		

Correction Factors (Table at Right)

• Throw and total pressure corrections are multipliers. The NC correction is an addition.

• A_k is the flow factor. A_c is the core area from the main table.

Model	Damper	A_k/A_c	Throw	Total Pressure	NC
A 206, A 226	With	.77	1.00	1.00	0
A 200, A 220	Without	.82	.98	.88	-2





SUPPLY AIR GRILL



QATIF - AUJAM INDUSTRIAL _____
AREA DHAHRAN - JUBAIL HI WAY
P.O. BOX 10848 - QATIF 31911