

10

RETURN AIR REGISTER

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

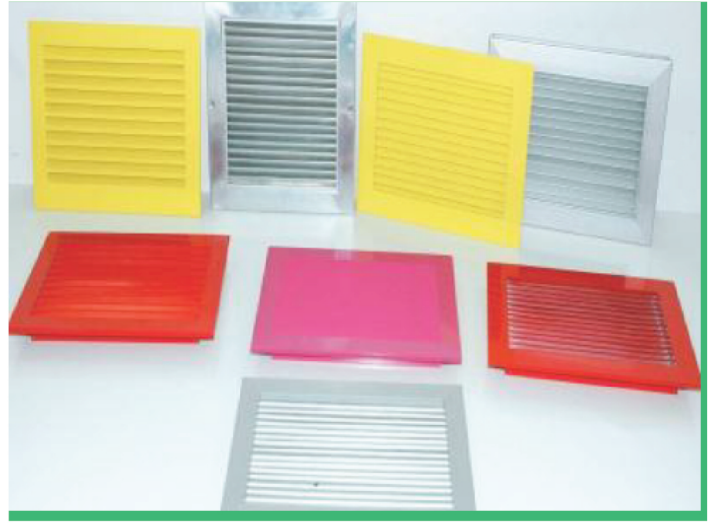


@Performance

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



company
profile
2022

RETURN AIR REGISTER

RETURN AIR REGISTER

- RETURN AIR GRILLE : MODEL (RAG)

- DOOR AIR GRILLE : MODEL (DG -11)

- RETURN AIR REGISTER : MODEL (RAR)

- EGG CRAT GRELL : MODEL (EGG)

- TRANSFER AIR GRILLE : MODEL (DG -1)



@Performance

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AREA DHAHRAN - JUBAIL HI WAY
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القطفيف - صناعية الأوجام - طريق الظهران الجبيل السريع - ص.ب ١٠٨٤٨ - القطفيف ٣١٩١١

return air register

ALUMINUM

RETURN / EXHAUST GRILLES

MODEL : RAG

45° Fixed Blades spaced at 3/4" centers.

The Blades are arranged to overlap each other to be vision proof with the deflection facing away from the line of sight. Curved vanes return grilles have fixed horizontal blades.

RAG-L

One Set of Fixed Horizontal Blades.

RAG-V

One Set of Fixed Vertical Blades.

MATERIALS

Blades and frames are extruded aluminum.

BLADES

Fixed 45° degrees spaced on 3/4" inch centers and with rear reinforced bars on 18" in length and above.

FRAMES

1 1/4" (32mm) wide margin frame to minimize smudging. Optional pierced screw holes for mounting screws.

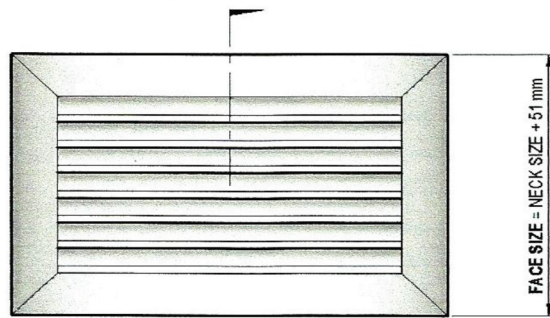
FINISH

Aluminum anodized, Standard RAL 9016 White or RAL 9010 Off-white powder coated finish.

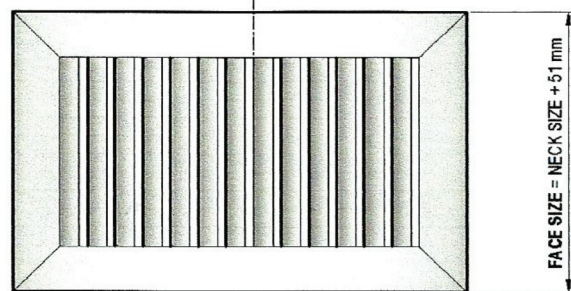
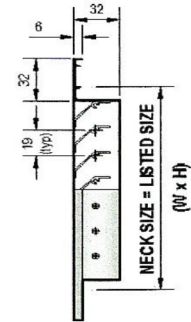
LISTED SIZES : (inches)

MIN. SIZE = 8" x 4"

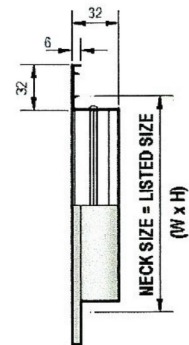
MAX. SIZE = 48" x 36"



RAG-L



RAG-V



HOW TO ORDER :

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

LISTED SIZES : (Quick Guide)

Size (in.)	NC Level	CFM Range	Size (in.)	NC Level	CFM Range	Size (in.)	NC Level	CFM Range
8 x 4	10-25	40-125	12 x 12	10-25	200-630	46 x 32	10-23	1530-4780
8 x 6	10-25	50-150	18 x 12	10-25	305-950	24 x 24	10-25	845-1640
10 x 6	10-23	75-225	24 x 12	10-26	410-1275	30 x 24	10-22	1070-3340
12 x 6	10-23	90-280	30 x 12	10-26	510-1585	36 x 24	10-24	1290-4025
18 x 6	10-24	140-235	18 x 18	10-23	470-1465	48 x 24	10-23	1725-5385
10 x 8	10-25	105-325	24 x 18	10-26	645-2010	36 x 30	10-25	1630-5100
12 x 8	10-25	125-385	30 x 18	10-21	815-2545	48 x 30	10-24	2220-6935
10 x 10	10-24	130-410	36 x 18	10-22	985-3070	48 x 36	10-24	2630-8215
22 x 10	10-23	325-1010	22 x 22	10-24	730-2275	-	-	-
34 x 10	10-24	485-1505	34 x 22	10-25	1150-3600	-	-	-

return air register

ALUMINUM

RETURN / EXHAUST REGISTERS

MODEL : RAR

45° Fixed Blades spaced at 3/4" centers.
With Opposed Blade Dampers.

The blades are arranged to overlap each other to be vision proof with the deflection facing away from the line of sight. Curved vanes return grilles have fixed horizontal blades.

INTEGRAL DAMPER

Heavy gauge extruded aluminum dampers. Opposed blade design with removable key operator adjustable from the grille face.

RAR-L.

One Set of Fixed Horizontal Blades with Opposed Blade Damper.

RAR-V

One Set of Fixed Vertical Blades with Opposed Blade Damper.

MATERIALS

Blades and frames are extruded aluminum.

BLADES

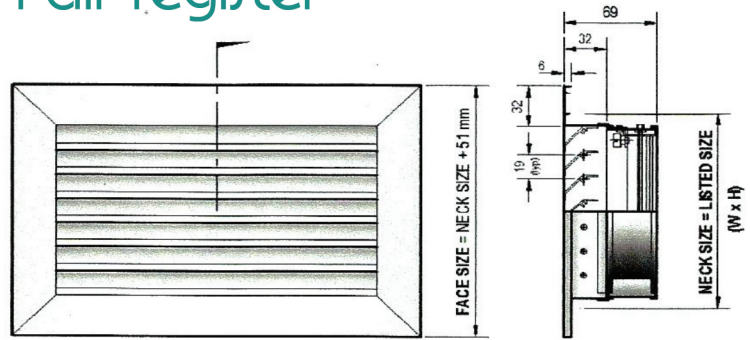
Fixed 45° degrees spaced on 3/4" inch centers and with rear reinforced bars on 18" in length and above.

FRAMES

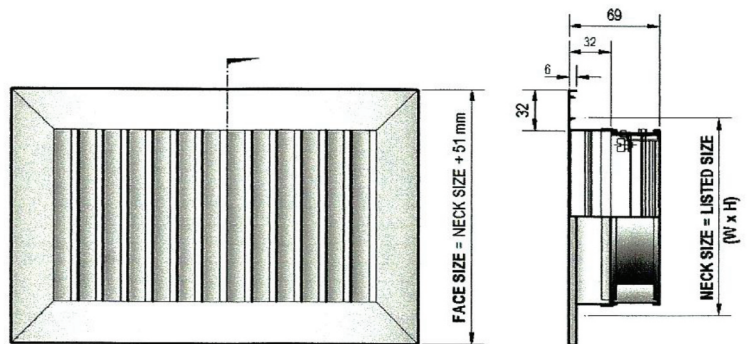
1 1/4" (32mm) wide margin frame to minimize smudging. Optional pierced screw holes for mounting screws.

FINISH

Aluminum anodized, Standard RAL 9016 White or RAL 9010 Off-white powder coated finish.



RAR-L.



RAR-V

HOW TO ORDER :

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

LISTED SIZES : (inches)

MIN. SIZE = 8" x 4"
MAX. SIZE = 48" x 36"

LISTED SIZES : (Quick Guide)

Size (in.)	NC Level	CFM Range	Size (in.)	NC Level	CFM Range	Size (in.)	NC Level	CFM Range
8 x 4	10-25	40-125	12 x 12	10-25	200-630	46 x 32	10-23	1530-4780
8 x 6	10-25	50-150	18 x 12	10-25	305-950	24 x 24	10-25	845-1640
10 x 6	10-23	75-225	24 x 12	10-26	410-1275	30 x 24	10-22	1070-3340
12 x 6	10-23	90-280	30 x 12	10-26	510-1585	36 x 24	10-24	1290-4025
18 x 6	10-24	140-235	18 x 18	10-23	470-1465	48 x 24	10-23	1725-5385
10 x 8	10-25	105-325	24 x 18	10-26	645-2010	36 x 30	10-25	1630-5100
12 x 8	10-25	125-385	30 x 18	10-21	815-2545	48 x 30	10-24	2220-6935
10 x 10	10-24	130-410	36 x 18	10-22	985-3070	48 x 36	10-24	2630-8215
22 x 10	10-23	325-1010	22 x 22	10-24	730-2275	-	-	-
34 x 10	10-24	485-1505	34 x 22	10-25	1150-3600	-	-	-

return air register

ALUMINUM

TRANSFER / DOOR GRILLES

ATG – Series

Model : DG-01

Flanged Frames

Model : DG-11

Flanged & Auxiliary Frames

They are widely used, not only in doors and partition, but also in place of conventional exhaust and return grilles. Transfer grilles can be completely light tight when two sets of vee blades are placed in series. Series ATG-702 / 711 sight tight transfer door grilles have fixed horizontal inverted vee shaped blades.

FRAMES : 36mm margin extruded aluminum.

VEE FORMED BLADES :

Sight tight aluminum blades on centers with reinforcing bars above 18" in length. Blade depth at 7/8". Maximum size is 36" x 24".

FINISH

Aluminum anodized , Standard **RAL 9016** White or **RAL 9010** Off-white powder coated finish.

LISTED SIZES : (inches)

MIN. SIZE = 4" x 4"

MAX. SIZE = 48" x 36"

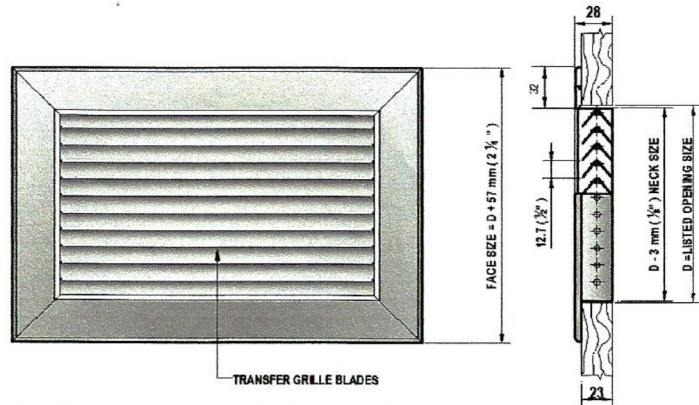
Two (2) inch increment of width, one third(1/3) in height. Multiple sections furnished for sizes greater than max.

All dimensions in inches.

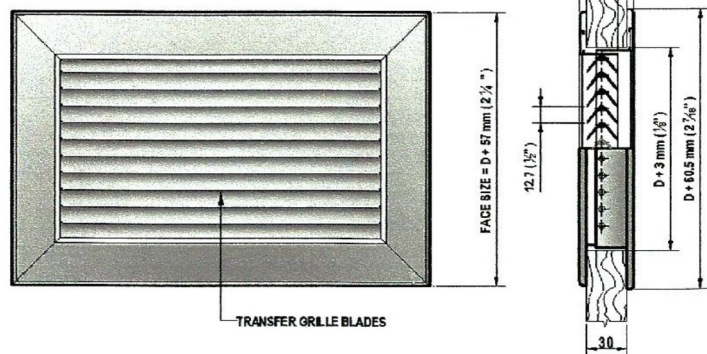
HOW TO ORDER :

- TYPE (ATG 700, 702, 711)
- LISTED SIZE (W x H)
- FINISH

LISTED SIZES : (Quick Guide)



DG-01



DG-11

HOW TO ORDER :

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

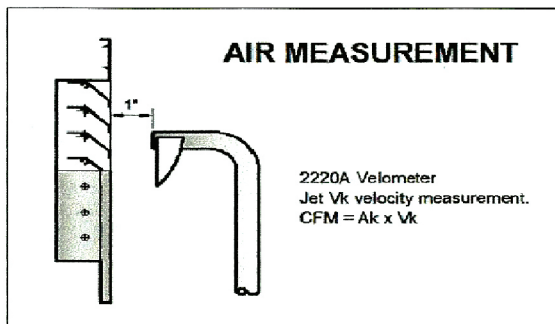
NON-DUCTED			DUCTED		NON-DUCTED			DUCTED	
Size (in.)	NC-Level	CFM Range	NC-Level	CFM Range	Size (in.)	NC-Level	CFM Range	NC-Level	CFM Range
12 x 6	20 - 25	60 - 75	25 - 40	120 - 190	36 x 12	20 - 25	450 - 550	25 - 40	895 - 1405
18 x 6	20 - 25	95 - 115	25 - 40	185 - 285	24 x 16	20 - 25	395 - 480	25 - 40	780 - 1225
12 x 8	20 - 25	80 - 95	25 - 40	155 - 245	30 x 16	20 - 25	495 - 605	25 - 40	985 - 1550
24 x 8	20 - 25	185 - 225	25 - 40	365 - 575	24 x 24	20 - 25	605 - 740	25 - 40	1205 - 1890
12 x 10	20 - 25	110 - 135	25 - 40	220 - 345	30 x 24	20 - 25	765 - 935	25 - 40	1525 - 2395
18 x 10	20 - 25	175 - 215	25 - 40	350 - 545	36 x 24	20 - 25	920 - 1120	25 - 40	1825 - 2870
24 x 10	20 - 25	240 - 290	25 - 40	470 - 735	42 x 24	20 - 25	1085 - 1325	25 - 40	2160 - 3390
12 x 12	20 - 25	135 - 165	25 - 40	270 - 420	48 x 24	20 - 25	1240 - 1510	25 - 40	2460 - 3865
18 x 12	20 - 25	210 - 255	25 - 40	415 - 650	36 x 36	20 - 25	1395 - 1700	25 - 40	2770 - 4345
24 x 12	20 - 25	290 - 355	25 - 40	580 - 915	42 x 36	20 - 25	1560 - 1905	25 - 40	3105 - 4875
30 x 12	20 - 25	370 - 450	25 - 40	735 - 1155	48 x 36	20 - 25	1855 - 2265	25 - 40	3690 - 5795

return air register

RETURN AIR GRILLES / REGISTERS PERFORMANCE DATA

RETURN AIR CAPACITY

Listed Size W x H		NC 20 – 25 Application Non – Ducted		NC 20 – 25 Application Non – Ducted		NC 20 – 25 Application Non – Ducted	
		P _s		P _s		P _s	
		- .02"	- .03"	- .10"	- .10"	- .15"	- .20"
		CFM	CFM	CFM	CFM	CFM	CFM
8 x 4	.26	40	50	80	90	110	125
8 x 6	.34	50	60	95	105	130	150
10 x 6	.42	75	90	145	160	195	225
12 x 6	.50	90	110	180	200	245	280
10 x 8	.53	105	130	210	235	285	325
12 x 8	.63	125	150	245	275	335	385
10 x 10	.64	130	160	260	290	355	410
18 x 6	.75	140	170	275	310	380	435
12 x 12	.89	200	245	400	450	550	630
18 x 12	1.3	305	370	605	675	825	950
22 x 10	1.4	325	395	645	720	880	1010
24 x 12	1.7	410	500	815	910	1110	1275
18 x 18	1.9	470	575	935	1045	1275	1465
34 x 10	2.1	485	590	960	1075	1310	1505
30 x 12	2.2	510	620	1010	1130	1380	1585
24 x 18	2.5	645	785	1280	1435	1750	2010
22 x 22	2.8	730	890	1450	1625	1980	2275
30 x 18	3.2	815	995	1620	1815	2215	2545
24 x 24	3.3	845	1030	1680	1880	2295	2640
36 x 18	3.8	985	1200	1955	2190	2670	3070
30 x 24	4.1	1070	1305	2125	2380	2905	3340
34 x 22	4.3	1150	1405	2290	2565	3130	3600
36 x 24	4.9	1290	1575	2565	2870	3500	4025
46 x 22	5.9	1530	1865	3040	3405	4155	4780
36 x 30	6.1	1630	1990	3245	3645	4435	5100
48 x 24	6.6	1725	2105	3430	3840	4685	5385
48 x 30	8.1	2220	2710	4415	4945	6030	6935
48 x 36	9.7	2630	3210	5230	5855	7145	8215



SYMBOLS :

A_k – Outlet Area, 1" Out from Face.
P_s – Static Pressure inches H₂O.
NC – re 8 db room Attenuation.

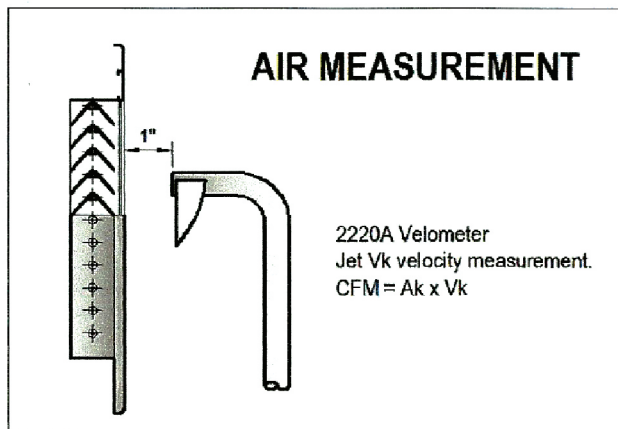
EXAMPLE : A 36" x 16" size (not shown) has a listed area of 576 sq. in. Its performance will be identical to a 24" x 24" size (shown) which has the same listed size area of 576 sq. in.

return air register

PERFORMANCE DATA

TRANSFER GRILLE CAPACITY

Listed Size W x H		NC 20 – 25 Application Non – Ducted		NC 25 – 30 Application Ducted		NC 30 – 40 Application Ducted	
		P_s		P_s		P_s	
		- .02"	- .03"	- .08"	- .10"	- .15"	- .20"
		CFM	CFM	CFM	CFM	CFM	CFM
12 x 6	.50	60	75	120	135	165	190
12 x 8	.63	80	95	155	175	215	245
18 x 6	.75	95	115	185	205	250	285
12 x 10	.76	110	135	220	245	300	345
12 x 12	.89	135	165	270	300	365	420
18 x 10	1.1	175	215	350	390	475	545
24 x 8	1.2	185	225	365	410	500	575
18 x 12	1.3	210	255	415	465	565	650
24 x 10	1.4	240	290	470	525	640	735
24 x 12	1.6	290	355	580	650	795	915
30 x 12	2.1	370	450	735	825	1005	1155
24 x 16	2.2	395	480	780	875	1065	1225
36 x 12	2.5	450	550	895	1000	1220	1405
30 x 16	2.7	495	605	985	1105	1350	1550
24 x 24	3.1	605	740	1205	1350	1645	1890
30 x 24	3.9	765	935	1525	1710	2085	2395
36 x 24	4.6	920	1120	1825	2045	2495	2870
42 x 24	5.4	1085	1325	2160	2420	2950	3390
48 x 24	6.2	1240	1510	2460	2755	3360	3865
36 x 36	6.9	1395	1700	2770	3100	3780	4345
42 x 36	8.0	1560	1905	3105	3475	4240	4875
48 x 36	9.1	1855	2265	3960	4130	5040	5795



SYMBOLS :

A_k – Outlet Area, 1" Out from Face.

P_s – Static Pressure inches H₂O.

NC – re 8 db room Attenuation.

return air register

ALUMINUM

RETURN / EXHAUST (EGG CRATE) (EGG CRATE)

MODEL: EGG – 1/2"

1/2" x 1/2" x 1/2" Aluminum core grids

MODEL: EGG –D – 1/2"

1/2" x 1/2" x 1/2" Aluminum core grids with Opposed Blade Damper.

INTEGRAL DAMPER

Heavy gauge extruded aluminum dampers. Opposed blade design with removable key operator adjustable from the grille face

GRID CORES

All aluminum 0.8 mm thk. 1/2 x 1/2 x 1/2 " inch grids.

FRAMES

Extruded Aluminum 1 ¼" (32mm) wide margin frame to minimize smudging. Optional pierced screw holes for mounting screws .

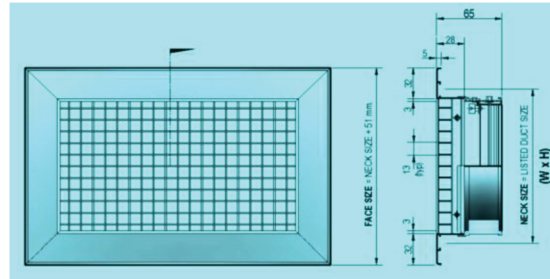
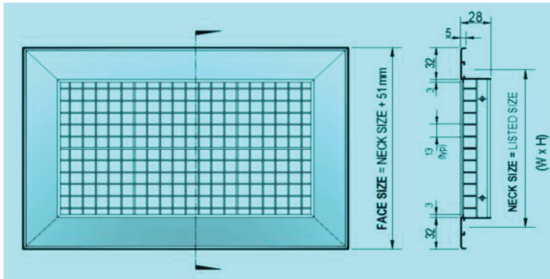
FINISH

Aluminum Standard **RAL 9016** White or **RAL 9010** Off-white powder coated finish.

LISTED SIZES: (inches)

MIN. SIZE = 8" x 4"

MAX.SIZE = 48" x 36"



LISTED SIZES: (Quick Guide)

NON-DUCTED			DUCTED		NON-DUCTED			DUCTED	
Size (in.)	NC Level	CFM Range	NC Level	CFM Range	Size (in.)	NC Level	CFM Range	NC Level	CFM Range
10 x 6	20 - 25	140 - 170	25 - 40	280 - 445	30 x 18	20 - 25	1535 - 1890	25 - 40	3090 - 4850
12 x 6	20 - 25	170 - 210	25 - 40	340 - 535	36 x 18	20 - 25	1830 - 2250	25 - 40	3670 - 5775
18 x 6	20 - 25	260 - 320	25 - 40	525 - 830	22 x 22	20 - 25	1340 - 1650	25 - 40	2700 - 4240
10 x 8	20 - 25	195 - 240	25 - 40	390 - 615	34 x 22	20 - 25	2170 - 2670	25 - 40	4100 - 6450
12 x 8	20 - 25	235 - 290	25 - 40	475 - 745	24 x 24	20 - 25	1620 - 1990	25 - 40	3250 - 5125
10 x 10	20 - 25	245 - 305	25 - 40	500 - 700	30 x 24	20 - 25	2040 - 2510	25 - 40	4100 - 6450
22 x 10	20 - 25	630 - 775	25 - 40	1260 - 1980	36 x 24	20 - 25	2470 - 3040	25 - 40	4960 - 7775
12 x 12	20 - 25	370 - 455	25 - 40	745 - 1170	48 x 24	20 - 25	3340 - 4100	25 - 40	6700 - 10500
18 x 12	20 - 25	575 - 710	25 - 40	1155 - 1820	36 x 30	20 - 25	3120 - 3840	25 - 40	6275 - 9900
24 x 12	20 - 25	770 - 945	25 - 40	1540 - 2420	48 x 30	20 - 25	4190 - 5150	25 - 40	8400 - 13150
30 x 12	20 - 25	985 - 1210	25 - 40	1950 - 3060	34 x 34	20 - 25	3190 - 3930	25 - 40	6425 - 10100
36 x 12	20 - 25	1290 - 1590	25 - 40	2600 - 4100	48 x 36	20 - 25	5060 - 6240	25 - 40	10200 - 16100
18 x 18	20 - 25	890 - 1095	25 - 40	1785 - 2820	46 x 46	20 - 25	6100 - 7475	25 - 40	12200 - 19300
24 x 18	20 - 25	1200 - 1470	25 - 40	2400 - 3770	-	-	-	-	-

return air register

ALUMINUM

RETURN / EXHAUST GRIDS (EGG CRATE)

MODEL: EGG- 1"

1" x 1" x 1" inch Aluminum core grids

MODEL: EGG- D – 1"

1" x 1" x 1" inch Aluminum core grids with Opposed Blade Damper.

INTEGRAL DAMPER

Heavy gauge extruded aluminum dampers opposed blade design with removable key

GRID CORES

All aluminum 0.8 mm thk. 1" x 1" x 1" inch grids.

FRAMES screw holes for mounting screws.

Extruded Aluminum 1 1/4" (32mm) wide margin frame to minimize smudging. Optional pierced finish.

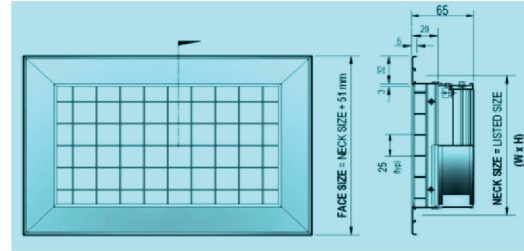
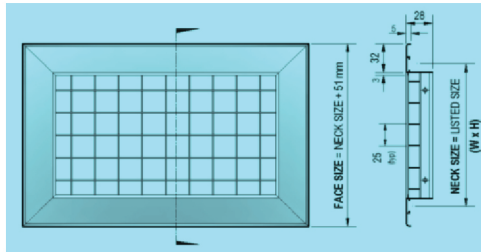
FINISH

Aluminum Standard **RAL 9016** White or **RAL 9010** Off-white powder coated

LISTED SIZES: (inches)

MIN. SIZE = 8" x 4"

MAX. SIZE = 48" x 36"



LISTED SIZES: (Quick Guide)

NON-DUCTED			DUCTED		NON-DUCTED			DUCTED	
Size (in.)	NC Level	CFM Range	NC Level	CFM Range	Size (in.)	NC Level	CFM Range	NC Level	CFM Range
10 x 6	20 - 25	140 - 170	25 - 40	280 - 445	30 x 18	20 - 25	1535 - 1890	25 - 40	3090 - 4850
12 x 6	20 - 25	170 - 210	25 - 40	340 - 535	36 x 18	20 - 25	1830 - 2250	25 - 40	3670 - 5775
18 x 6	20 - 25	260 - 320	25 - 40	525 - 830	22 x 22	20 - 25	1340 - 1650	25 - 40	2700 - 4240
10 x 8	20 - 25	195 - 240	25 - 40	390 - 615	34 x 22	20 - 25	2170 - 2670	25 - 40	4100 - 6450
12 x 8	20 - 25	235 - 290	25 - 40	475 - 745	24 x 24	20 - 25	1620 - 1990	25 - 40	3250 - 5125
10 x 10	20 - 25	245 - 305	25 - 40	500 - 700	30 x 24	20 - 25	2040 - 2510	25 - 40	4100 - 6450
22 x 10	20 - 25	630 - 775	25 - 40	1260 - 1980	36 x 24	20 - 25	2470 - 3040	25 - 40	4960 - 7775
12 x 12	20 - 25	370 - 455	25 - 40	745 - 1170	48 x 24	20 - 25	3340 - 4100	25 - 40	6700 - 10500
18 x 12	20 - 25	575 - 710	25 - 40	1155 - 1820	36 x 30	20 - 25	3120 - 3840	25 - 40	6275 - 9900
24 x 12	20 - 25	770 - 945	25 - 40	1540 - 2420	48 x 30	20 - 25	4190 - 5150	25 - 40	8400 - 13150
30 x 12	20 - 25	985 - 1210	25 - 40	1950 - 3060	34 x 34	20 - 25	3190 - 3930	25 - 40	6425 - 10100
36 x 12	20 - 25	1290 - 1590	25 - 40	2600 - 4100	48 x 36	20 - 25	5060 - 6240	25 - 40	10200 - 16100
18 x 18	20 - 25	890 - 1095	25 - 40	1785 - 2820	46 x 46	20 - 25	6100 - 7475	25 - 40	12200 - 19300
24 x 18	20 - 25	1200 - 1470	25 - 40	2400 - 3770	-	-	-	-	-

return air register

ALUMINUM

PERFORATED GRILLES & REGISTERS

MODEL: PGR

Aluminum Perforated Grille

MODEL: PGD

Aluminum Perforated Register with Opposed Blade Damper.

INTEGRAL DAMPER

(For Model: PGD) Heavy gauge extruded removable key operator adjustable from the grille face.

FRAMES

Extruded Aluminum 1 1/4" (32mm) wide margin Frame to minimize smudging. Optional pierced screw holes for mounting screws

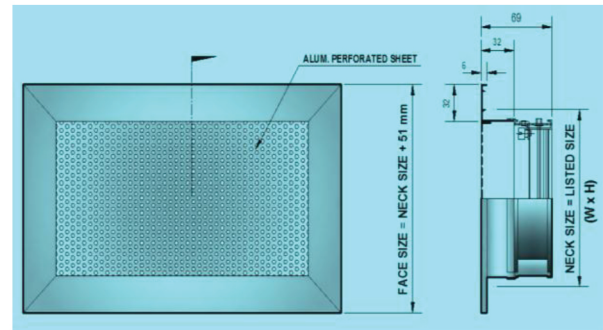
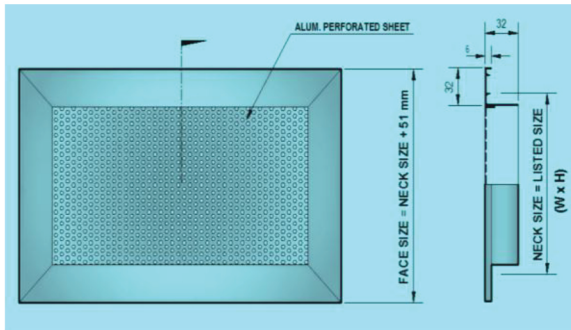
FINISH

Aluminum Standard **RAL 9016** White or **RAL 9010** Off-white powder coated finish.

LISTED SIZES: (inches)

MIN. SIZE = 8" x 4"

MAX. SIZE = 48" x 36"



LISTED SIZES: (Quick Guide)

NON-DUCTED			DUCTED		NON-DUCTED			DUCTED	
Size (in.)	NC-Level	CFM Range	NC-Level	CFM Range	Size (in.)	NC-Level	CFM Range	NC-Level	CFM Range
8 x 4	20 - 25	35 - 45	25 - 40	70 - 110	18 x 18	20 - 25	1065 - 1680	25 - 40	3090 - 4850
8 x 6	20 - 25	55 - 70	25 - 40	110 - 175	24 x 18	20 - 25	1430 - 2260	25 - 40	3670 - 5775
10 x 6	20 - 25	70 - 85	25 - 40	140 - 220	30 x 18	20 - 25	1790 - 2840	25 - 40	2700 - 4240
12 x 6	20 - 25	85 - 105	25 - 40	170 - 270	36 x 18	20 - 25	2140 - 3380	25 - 40	4100 - 6450
18 x 6	20 - 25	170 - 210	25 - 40	340 - 535	22 x 22	20 - 25	1590 - 2530	25 - 40	3250 - 5125
10 x 8	20 - 25	95 - 115	25 - 40	190 - 300	34 x 22	20 - 25	2480 - 3920	25 - 40	4100 - 6450
12 x 8	20 - 25	115 - 140	25 - 40	230 - 365	46 x 22	20 - 25	3380 - 5350	25 - 40	4960 - 7775
10 x 10	20 - 25	155 - 190	25 - 40	310 - 490	24 x 24	20 - 25	1890 - 3000	25 - 40	6700 - 10500
22 x 10	20 - 25	355 - 435	25 - 40	710 - 1120	30 x 24	20 - 25	2380 - 3770	25 - 40	6275 - 9900
34 x 10	20 - 25	550 - 675	25 - 40	1100 - 1740	36 x 24	20 - 25	2870 - 4550	25 - 40	8400 - 13150
12 x 12	20 - 25	230 - 280	25 - 40	460 - 730	48 x 24	20 - 25	3890 - 6150	25 - 40	6425 - 10100
18 x 12	20 - 25	350 - 430	25 - 40	700 - 1110	36 x 30	20 - 25	3600 - 5700	25 - 40	10200 - 16100
24 x 12	20 - 25	470 - 575	25 - 40	940 - 1485	-	-	-	-	-
30 x 12	20 - 25	590 - 725	25 - 40	1180 - 1865	-	-	-	-	-



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