

CATALOG

2026

PLASTIC AIR DIFFUSER - AIR GRILLE



KOMFORT
FLOW

PLASTIC SQUARE CEILING DIFFUSER - MODEL 4-ASD(PL)



Komfort Flow plastic square ceiling diffuser, 4-ASD(PL) is 4 ways type air diffuser. Diffuser made from high quality ABS plastic. The diffuser shall be installed with aluminum opposed blade volume damper which can be adjusted by the screw from the grille face.

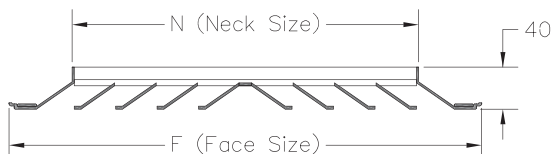
Material : ABS Plastic
 Finishing : Painting in White Color
 Optional : Aluminum Volume Damper - (WD)



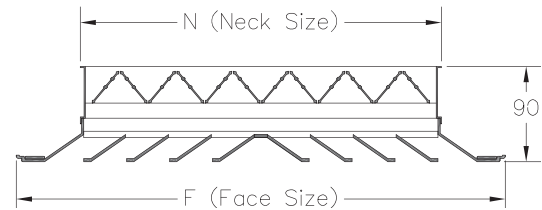
4-ASD(PL)



4-ASD(PL) (WD)



Section : 4-ASD(PL)



Section : 4-ASD(PL) (WD)

Dimension

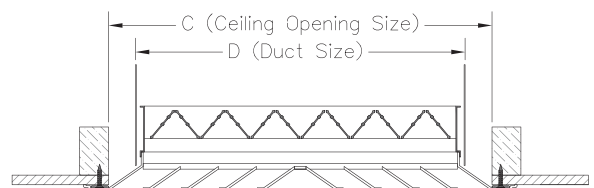
Face Size	Neck Size	Duct Size	Ceiling Opening Size
F (mm)	N (mm)	D (mm)	C (mm)
300 x 300	180 x 180	190 x 190	250 x 250
350 x 350	230 x 230	240 x 240	300 x 300
400 x 400	280 x 280	290 x 290	350 x 350
450 x 450	330 x 330	340 x 340	400 x 400
600 x 600	480 x 480	490 x 490	550 x 550

Performance Table

Duct Size (mm)	Flow Rate (CFM)	NC	Throw @ 100 FPM	
			(Ft)	(M)
190x190	297	35	11.2	3.4
240x240	530	35	14.8	4.5
290x290	742	35	17.4	5.3
340x340	953	35	19.7	6.0
490x490	1,801	35	22.6	6.9

Installation

1. Remove the plug at each corner then fixing the screw.
2. Putting in plug in place.
3. Optional volume damper can be adjusted by the screw at the front of the diffuser.



Installation Details

ROUND CEILING DIFFUSER - MODEL RD(PL)

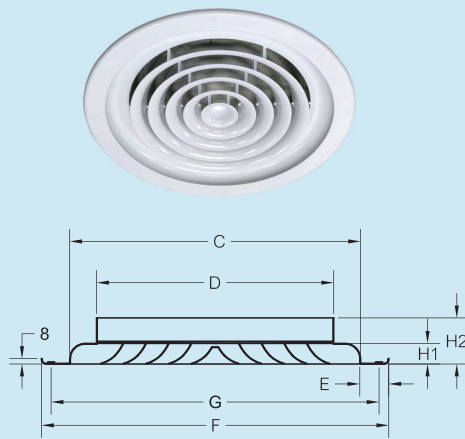


Model : RD(PL)

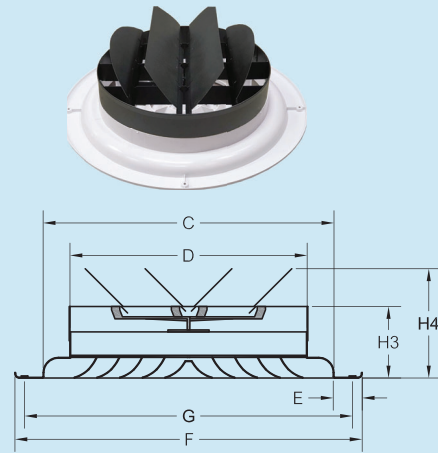
Komfort Flow plastic round ceiling diffuser model RD(PL) constructed from the high quality ABS plastic. The 360 degree multi cone with horizontal air flow pattern makes it ideal for the high volume air flow application. Comparing to aluminum diffuser, this material can reduce moisture condensation problem on the diffuser's surface. It's recommended for using in the high humidity area such as the hotel lobby, hot pot restaurant, cafe, or any open air area with the air conditioning.

Material : ABS plastic
 Finishing : White plastic color or Industrial spray paint
 Optional : Galvanized Butterfly damper - (WD)
 Available size : 12", 14"

Section Details



Section : RD(PL)



Section : RD(PL) (WD)

Dimension Data

Size (in)	D (mm)	F (mm)	C (mm)	G (mm)	E (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)
12	295	400	326	372	40	29	57	107	167
14	345	505	425	477	42	30	67	117	177

Performance Data

Norm. Size (in)	Neck Area (Sq.Ft.)	Neck Velocity (FPM)	400	500	600	700	800	900	1000	1100	1200
12"	0.785	Flow Rate (CFM)	314	395	470	550	630	705	785	865	940
		Static Pressure (in.wg.)	0.06	0.06	0.09	0.12	0.16	0.19	0.25	0.3	0.38
		NC	-	-	18	23	27	31	34	38	40
		Throw (Ft.)	5-11	6-14	7-14	8-15	8-16	8-17	9-18	9-19	10-20
14"	1.07	Flow Rate (CFM)	428	535	642	749	856	963	1070	1177	1284
		Static Pressure (in.wg.)	0.06	0.07	0.1	0.13	0.16	0.2	0.26	0.31	0.38
		NC	-	13	19	24	28	32	35	38	41
		Throw (Ft.)	7-15	7-15	8-17	9-19	10-22	10-22	12-24	12-26	12-26

SUPPLY AIR GRILLE - Double Deflection Grille



Model : 4-WSG (PL)



Model : 4-WSG-V (PL)

Supply Air Grille Model 4-WSG (PL) is constructed from the high quality extruded plastic. This double deflection grille is consisted of front blade and rear blade. Front blades may be either horizontal or vertical. Rear blades are vice versa. Each blade can be adjusted individually.

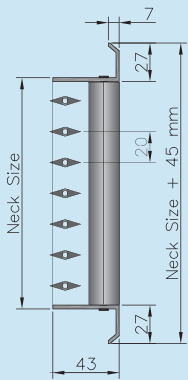
Front vertical and Rear horizontal blade



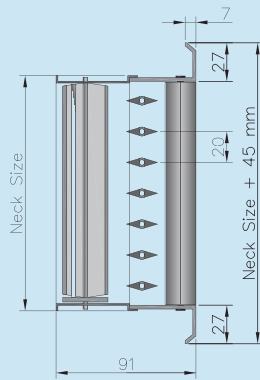
Model : 4-WSG-H (PL)

Front horizontal and Rear vertical blade

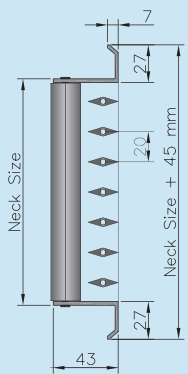
Section Details



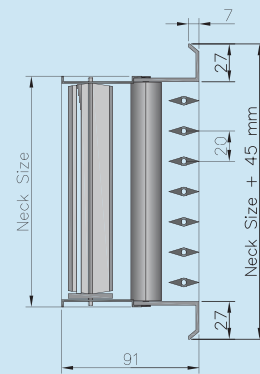
Model : 4-WSG-V (PL)



Model : 4-WSG-V (PL) (WD)



Model : 4-WSG-H (PL)

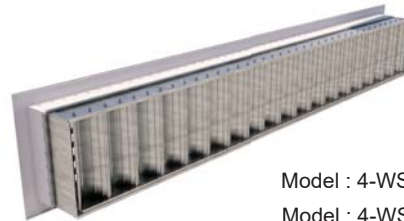


Model : 4-WSG-H (PL) (WD)

Material : Frame - Extruded Plastic
Blade - Extruded Plastic

Finishing : White plastic color or Industrial spray paint

All grilles can be installed with extruded aluminum opposed blade volume damper and can be adjusted at the front of grille.



Model : 4-WSG-H (PL) (WD)

Model : 4-WSG-V (PL) (WD)

Performance Data

Duct Size		Free Area (Sq.Ft.)	Flow Rate (CFM)	NC	Throw @ 100 FPM	
(inch)	(mm)				(Ft.)	(M)
8"x6"	200x150	0.20	233	30	25	8
12"x6"	300x150	0.30	339	30	23	7
18"x6"	450x150	0.45	424	30	26	8
20"x6"	500x150	0.50	466	30	26	8
20"x8"	500x200	0.67	593	30	30	9
24"x8"	600x200	0.80	635	30	30	9
32"x10"	800x250	1.33	868	30	33	10
36"x12"	900x300	1.80	1,059	30	33	10
42"x14"	1050x350	2.45	1,271	30	34	11
48"x18"	1200x450	3.60	1,694	30	38	12

Unit Conversion : CFM = 1.699 CMH = 0.472 L/S
Ft = 0.305 M
Sq.Ft. = 0.093 Sq.M.
FPM = 0.005 m/s

RETURN AIR GRILLE (PLASTIC) - 1" Z Blade

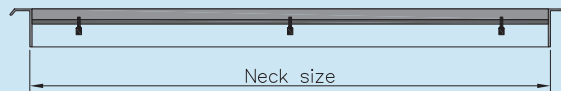
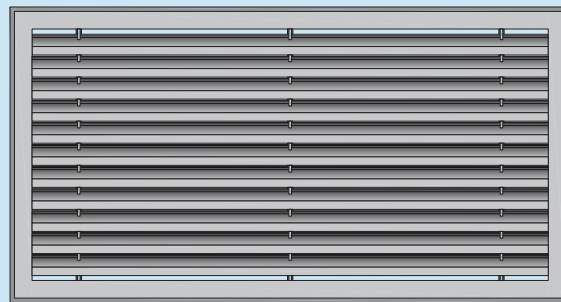


Model : 1-HRG(PL)

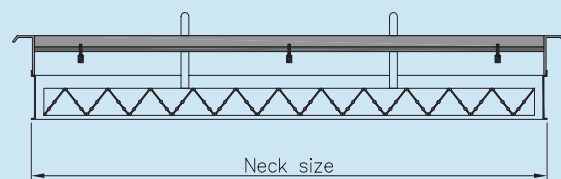
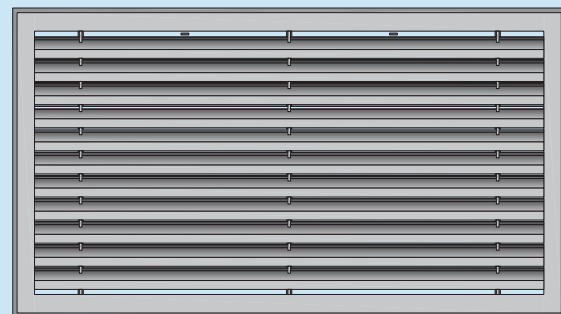
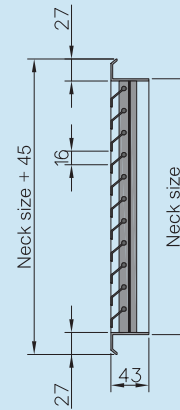
Return air grille, model 1-HRG(PL), is constructed from the high quality extruded plastic. The 1" Z blade is fixed and 45 degree inclined. Optional aluminum opposed blade volume damper or insect screen are available.

- Material : Frame - Extruded Plastic
Blade - Extruded Plastic
- Finishing : White plastic color
Industrial spray paint
- Option : Aluminum volume damper (WD)
Insect screen (INS)

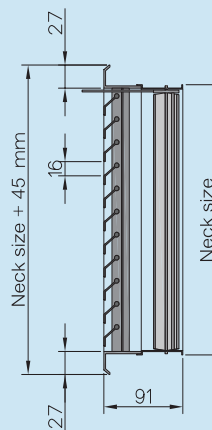
Section Details



Model : 1-HRG(PL)



Model : 1-HRG(PL)(WD)



LINEAR SLOT DIFFUSER



Model : 2-LSD(PL)

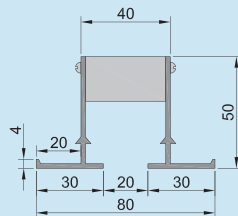
Linear Slot Diffuser model LSD(PL) is constructed from the high quality extruded plastic. Single and multiple slots are available. The standard slot width is 20 mm.

Material : Extruded Plastic

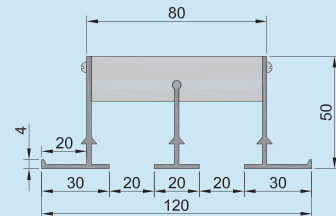
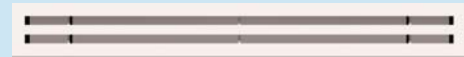
Finishing : White plastic color or Industrial spray paint

Max length per piece : 3 M

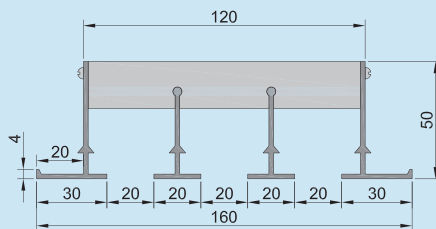
Section Details



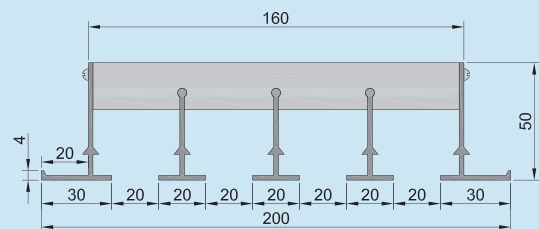
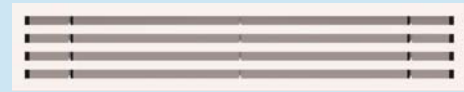
Model : 1-LSD(PL)



Model : 2-LSD(PL)



Model : 3-LSD(PL)

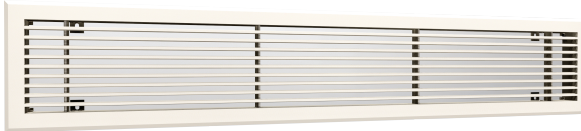
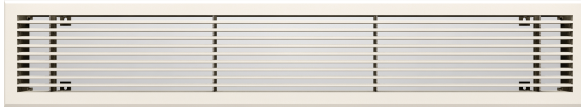


Model : 4-LSD(PL)

Performance Data

NO. OF SLOT	Flow rate per Ft. (CFM)	Flow rate (CFM)										
		20	30	40	60	80	100	125	150	200	250	300
1	VEL (FPM)	320	480	640	960	1280	1600					
	SP (in.wg.)	0.016	0.038	0.06	0.1	0.142	0.394					
	NC	-	-	-	10	15	35					
	THROW (ft)	5	10	15	20	22	35					
2	VEL (FPM)		240	320	480	640	800	1000	1200	1600		
	SP (in.wg.)		0.009	0.017	0.04	0.065	0.113	0.176	0.27	0.4		
	NC		-	-	-	5	12	15	25	35		
	THROW (ft)		4	7	11	20	24	30	35	41		
3	VEL (FPM)			213	320	427	533	667	800	1066	1333	
	SP (in.wg.)			0.009	0.018	0.036	0.06	0.085	0.15	0.221	0.35	
	NC			-	-	5	10	15	20	30	35	
	THROW (ft)			6	9	15	20	24	30	34	42	
4	VEL (FPM)				240	320	400	500	600	800	1000	1200
	SP (in.wg.)				0.014	0.023	0.04	0.06	0.095	0.14	0.242	0.32
	NC				-	-	-	10	25	30	35	40
	THROW (ft)				10	14	18	20	26	30	38	46
5	VEL (FPM)					256	320	400	480	640	800	960
	SP (in.wg.)					0.014	0.018	0.04	0.058	0.098	0.156	0.24
	NC					-	-	-	10	20	30	35
	THROW (ft)					12	16	20	24	28	36	42

LINEAR BAR GRILLE

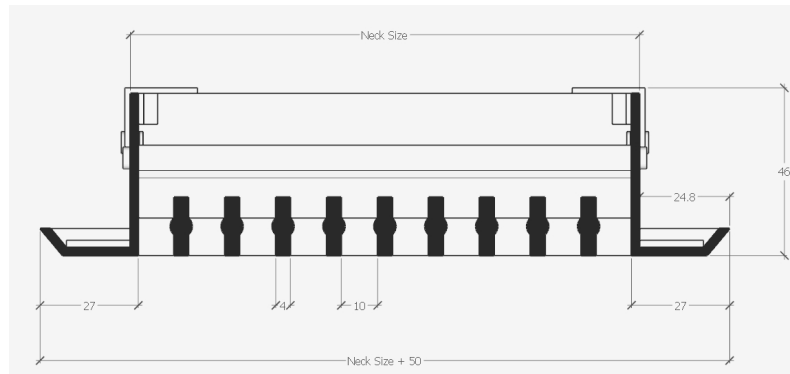


Model : 1-LBG(PL)

Linear Bar Grille model 1-LBG (PL) is constructed from the high quality extruded plastic. Linear bar blade width 4 mm with spacing 10 mm.

Material : Extruded Plastic
 Finishing : White plastic color or Industrial spray paint
 Max length per piece : 3 M

Section Details



Section : 1-LBG

Performance Data

Size	Static Pressure	0.01	0.022	0.04	0.063	0.089	0.121	0.159	0.202	0.25
1 1/2"	Flow CFM / Ft.	12	18	24	30	36	42	48	54	60
	NC	-	-	-	-	18	24	28	31	34
	Throw (ft.)	1	2	4	7	9	11	12	14	16
2"	Flow CFM / Ft.	20	29	39	49	59	69	79	89	98
	NC	-	-	-	-	21	25	29	33	36
	Throw (ft.)	1	4	7	9	11	14	16	17	19
3"	Flow CFM / Ft.	38	57	76	95	113	132	151	170	190
	NC	-	-	-	20	25	30	33	36	40
	Throw (ft.)	2	7	10	13	16	19	22	24	26
4"	Flow CFM / Ft.	54	81	108	135	162	189	216	243	270
	NC	-	-	-	21	26	31	34	38	41
	Throw (ft.)	3	9	13	16	20	23	25	28	31
5"	Flow CFM / Ft.	72	108	144	180	216	252	289	324	360
	NC	-	-	17	23	28	33	37	40	43
	Throw (ft.)	4	10	15	18	22	25	27	30	34
6"	Flow CFM / Ft.	90	135	180	225	270	314	360	404	450
	NC	-	-	17	24	30	34	38	41	45
	Throw (ft.)	5	10	15	19	23	25	29	31	36