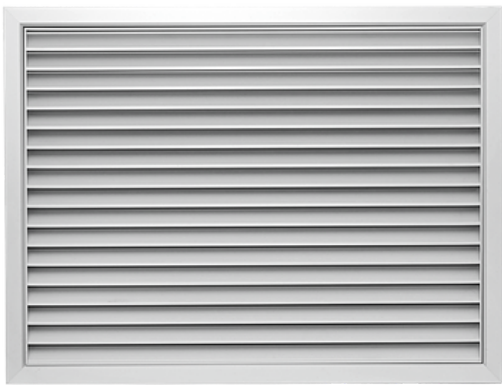




COWLS, GRILLES & DIFFUSERS



VENTÜER

Engineered Ventilation Products & Systems



While we have made every attempt to ensure that the information contained in this document is accurate, Ventüer is not responsible for any errors or omissions, or for the results obtained from the use of the information. Due to a policy of continuous development and improvement, the right is reserved to supply products which may differ slightly from those described in this document.

OUR MISSION

To supply engineered ventilation products and systems that enable our clients to create healthy, comfortable and code-compliant buildings.

Ventilation of indoor spaces has never been more important, with an increasing percentage of the world's population spending more time living, working and playing indoors.

Recognising the need for ventilation is easy. Delivering products and systems that create a healthy and comfortable indoor environment, comply with building code requirements, and work with the other building elements is not.

Ventüer works with architects, builders and installation contractors. Since 2009 we have been designing, manufacturing and guaranteeing ventilation products and systems for a wide range of commercial, industrial and residential construction projects.

When partnering with Ventüer, you can have confidence that the ventilation products and systems provided to your construction project are well designed, fit for purpose and code-compliant. We eliminate the risks associated with incorrect product selection or poor installation methodology, leaving you with high performing buildings that deliver health, comfort and safety to their occupants.

We take the responsibility, the risk and the care.

You take the credit for the successful end result.

RANGE OVERVIEW



Weather Resistant Cowls

The Ventüer ventilation cowls are designed to provide a high level of weather protection for exposed locations. With options including stainless steel, plastic, rectangular and dome profiles, they are ideal for residential ventilation systems.

[Page 6]

Gravity Shutters & Soffit Grilles

Simple, robust, cost effective and easy to install, the Ventüer ventilation grilles are perfect for air intake and exhaust situations where airflow rates are low. Options of louvre blade, eggcrate cores and gravity shutters.

[Page 7]



Circular Ceiling Diffusers

The Ventüer DC-Series of circular ceiling diffusers come with multiple configurations including cone, eggcrate, downjet and stainless steel core options. High performing yet cost effective, these diffusers are ideal for residential and office ventilation systems.

[Page 8]

Directional & Swirl Ceiling Diffusers

With one-piece pressed aluminium blades, the Ventüer SLF-Series ceiling diffusers provide smooth airflow with low pressure drop. The Ventüer SWD-Series swirl diffusers feature fixed radially arranged air control blades which cause excellent mixing and uniformity of air temperature.

[Page 9]



Eggcrate Grilles

The Ventüer fixed and hinged core eggcrate grilles feature a 12mm lattice aluminium core set within an extruded flanged frame. Robust and with a low pressure drop, these grilles are ideal for return air applications.

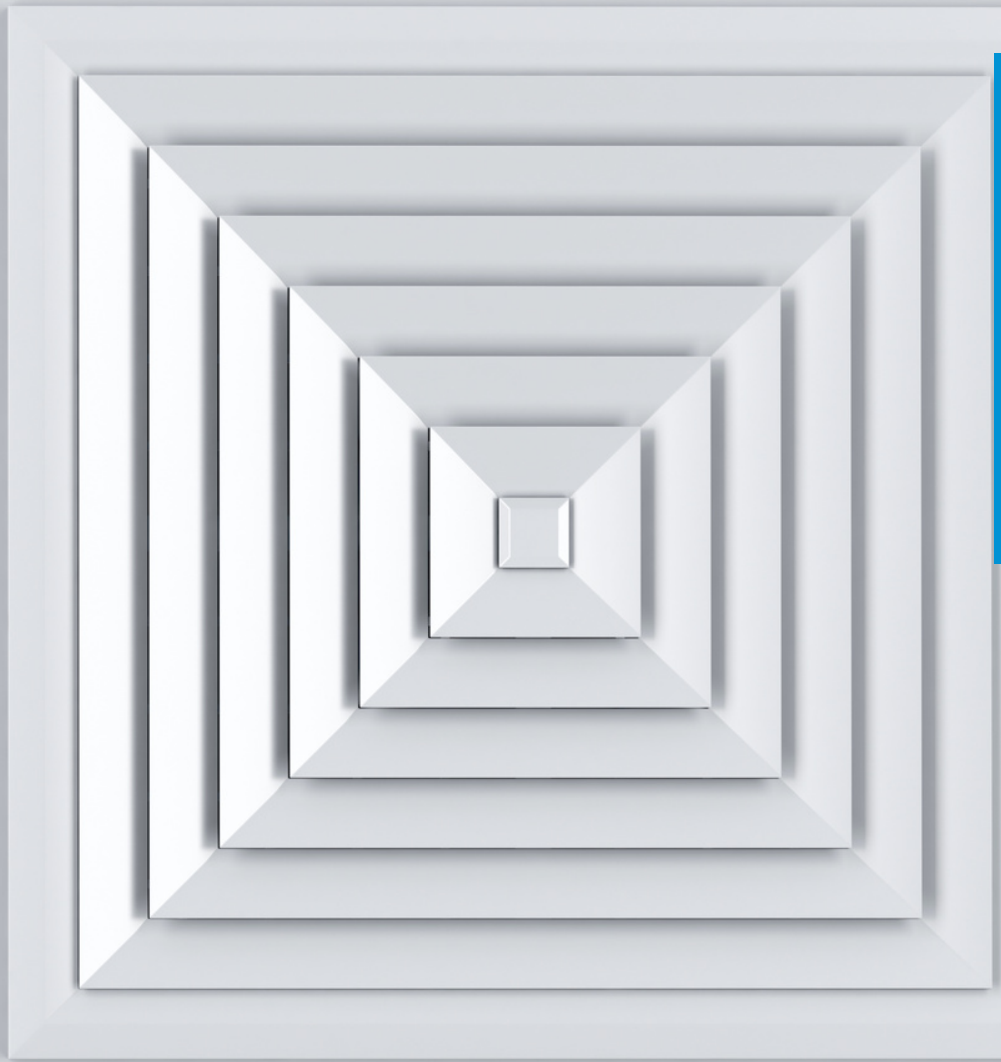
[Page 11]

Door Grilles

Constructed from durable and attractive anodised aluminium, the Ventüer CDG-Series door grilles feature a two piece telescopic perimeter frame that enables fitting to a range of different thickness doors with no visible fixings.

[Page 13]





LFC-Series

VENTILATION COWLS



STAINLESS WALL COWLS:

- High quality designer stainless steel finish.
- Designed for use where adverse weather conditions are experienced.
- Manufactured from 304 grade stainless steel.
- Integral stainless insect mesh and backdraft flap.



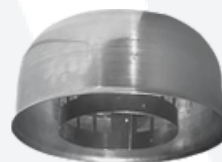
PLASTIC WALL COWLS:

- Constructed from white UV-resistant plastic.
- Designed for use where adverse weather conditions are experienced.
- Available with integral wire insect mesh and optional backdraft flap.



STAINLESS WALL DOMES:

- High quality stainless steel dome cowl for a modern stylish look.
- Designed for exhaust and supply ventilation.
- Integral insect mesh included.
- *Product does not include a backdraft shutter.*



ROOF COWLS:

- Spun aluminium roof cowl.
- Kits including HDPE tube, flashing and all fixings are available upon request.

TECHNICAL SPECIFICATION

PRODUCT	COLOUR	CODE	DIMENSIONS (MM)				
			Duct Size	Face Size	Spigot Dia.	Spigot Length	Cutout Size
Stainless Wall Cowl	Stainless Steel	LFCS-100	100	150 X 150	97	52	115
		LFCS-125	125	180 X 180	120	52	140
		LFCS-150	150	180 X 180	145	62	160
Plastic Wall Cowl	White	LFCP-100	100	140 X 140	99	35	115
		LFCP-125	125	175 X 175	123	27	140
		LFCP-150	150	175 X 175	152	35	165
Stainless Wall Dome	Stainless Steel	LFCD-100	100	Ø 140	97	52	115
		LFCD-125	125	Ø 180	120	52	140
		LFCD-150	150	Ø 200	145	62	155
Roof Cowl	Aluminium	LFCF-100	100	Ø 275	150	-	-

LFG-Series VENTILATION GRILLES

FEATURES

- High quality UV-resistant plastic construction.
- Available in multiple colours.
- Louvre or eggcrate core options.
- Removable inserts for easy cleaning.
- Integral neck adaptor sized to suit standard duct.
- Ideal for residential applications.



TECHNICAL SPECIFICATION

PRODUCT	COLOUR	CODE	DIMENSIONS (MM)				
			Duct Size	Face Size	Spigot Dia.	Spigot Length	Cutout Size
Fixed Louvre - Plastic	White, Black, Grey, Terracotta <small>(note - note all sizes are available in all colours)</small>	LFG-100L	100	140 X 140	100	35	105
		LFG-125L	125	162 X 162	122	25	127
		LFG-150L	150	174 X 174	152	32	157
		LFG-200L	200	285 X 285	199	67	240
		LFG-230L	230/250	285 X 285	230	29	240
		LFG-300L	300	350 X 350	285	50	295
Eggcrate Grille - Plastic	White	LFG-100E	100	140 X 140	100	34	105
		LFG-125E	125	162 X 162	122	24	127
		LFG-150E	150	175 X 175	152	34	157

BDS-Series GRAVITY SHUTTERS

FEATURES

- High quality stainless steel or UV-resistant plastic construction.
- Self-closing blades to prevent weather ingress or reverse air flow when not in use.
- Available in multiple colours.
- Integral neck adaptor sized to suit standard duct.
- Ideal for residential applications.



TECHNICAL SPECIFICATION

PRODUCT	COLOUR	CODE	DIMENSIONS (MM)					Minimum Pressure to Open
			Duct Size	Face Size	Spigot Dia.	Spigot Length	Cutout Size	
Stainless Steel	Stainless Steel	BDS-100S	150	180 X 180	97	52	115	30 Pa
		BDS-125S	125	180 X 180	120	52	140	30 Pa
		BDS-150S	100	150 X 150	145	62	160	20 Pa
Plastic	White, Black, Grey, Terracotta <small>(note - not all sizes are available in all colours)</small>	BDS-100P	100	140 X 140	100	35	105	(tba)
		BDS-120P	125	162 X 162	122	25	127	(tba)
		BDS-150P	150	174 X 174	152	32	157	(tba)
		BDS-230P	230/250	275 X 275	230	50	240	(tba)
		BDS-300P	300	350 X 350	285	50	295	(tba)

DC-Series

CIRCULAR CEILING DIFFUSERS



CONE DIFFUSERS:

- Adjustable diffuser suitable for ceiling mounted heating, cooling or ventilation options.
- White ABS plastic construction with etched finished to visible surfaces reducing light reflectivity.
- Airflow hugs the outer body and spreads in a concentric pattern along the ceiling.



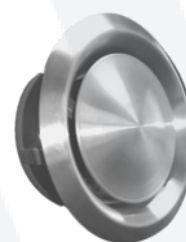
EGGCRATE DIFFUSERS:

- Durable ABS plastic eggcrate grille with adjustable butterfly damper.
- Quiet and efficient airflow, with very low pressure drop.
- Suitable for return or exhaust applications, or supply applications where a strong narrow jet of air is required.



DOWNJET DIFFUSERS:

- Downjet diffusers disperse air over a greater area than other diffusers thanks to the circular blades which are set at varying angles.
- Suitable for ventilation or heating applications where warm air is required to mix at lower levels.
- Constructed from white ABS plastic with etched surface finish.



STAINLESS STEEL CONE DIFFUSERS:

- Adjustable diffuser suitable for ceiling mounted heating, cooling or ventilation options.
- Stainless steel construction.
- Easy mounting with fixing lugs or screws.

TECHNICAL SPECIFICATION

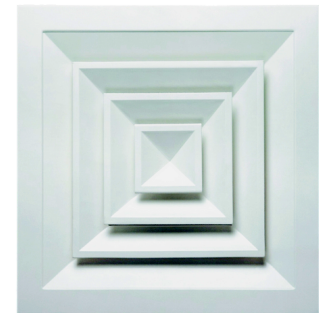
PRODUCT	MATERIAL	COLOUR	CODE	DIMENSIONS (MM)				
				Duct Size	Face Dia.	Spigot Dia.	Spigot Length	Cutout Size
Cone Diffuser	ABS Plastic	White	CDC-150	150	266	150	95	232
			CDC-200	200	317	200	95	282
			CDC-250	250	389	250	102	355
			CDC-300	300	435	300	102	405
Eggcrate Diffuser	ABS Plastic	White	EDC-150	150	240	150	95	215
			EDC-200	200	290	200	95	260
Downjet Diffuser	ABS Plastic	White	DDC-150	150	220	145	70	200
			DDC-250	250	268	195	70	250
Stainless Steel Diffuser	Stainless Steel 304	Stainless	SDC-100	100	140	97	52	105
			SDC-125	125	172	120	52	130
			SDC-150	150	220	145	62	150

SLF-Series

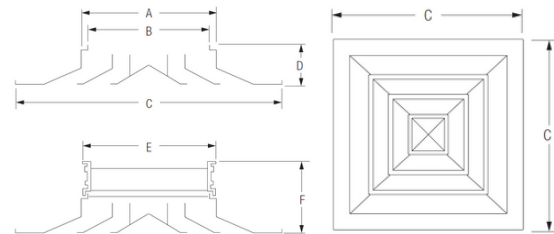
DIRECTIONAL CEILING DIFFUSERS

FEATURES:

- Durable aluminium construction, will not rust or corrode
- One-piece pressed blades with no joints, resulting in smooth airflow
- Low pressure drop
- White powdercoat finish
- Easily removable internal core assembly for ease of installation and maintenance
- Side entry cushion boxes and neck adaptors available to suit



DIMENSIONS (MM)								
Neck Size	A	B	C	D	E	F	G	H
150 X 150	144	131	290	45	137	85	150	150
225 X 225	220	207	365	45	212	85	225	225
300 X 300	294	278	440	45	285	85	300	300
360 X 360	369	355	515	45	360	85	360	360
450 X 450	444	430	595	45	435	85	450	450

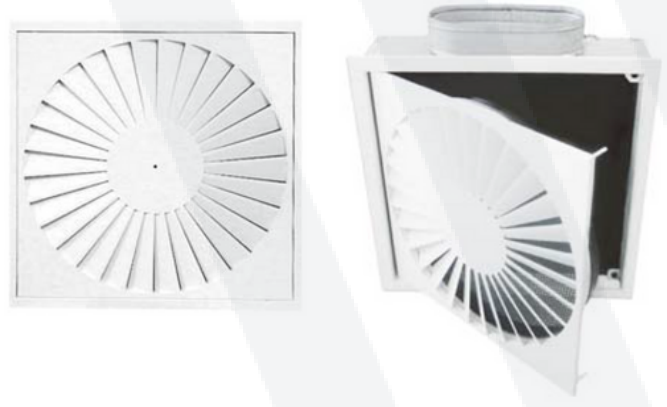
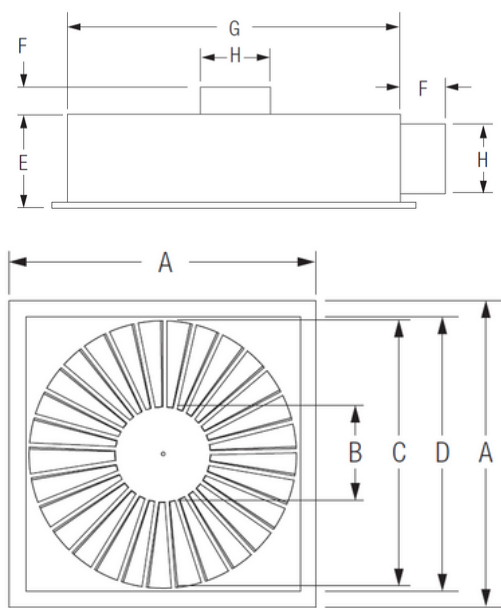


TECHNICAL SPECIFICATION													
Neck Size (mm)	Neck Velocity (m/s)	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
150 X 150	Throw (m)	-	0.8	1.2	1.4	2.9	4.4	5.6	6.6	7.6	8.5	9.4	10.2
	Pressure Drop (Pa)	-	13	19	27	37	47	59	72	86	102	119	136
	Flow (l/s)	-	36	46	55	64	73	82	91	100	109	118	128
	NR [dB(A)]	-	11	15	19	22	24	27	29	32	36	38	41
225 X 225	Throw (m)	0.8	2	4.9	7	8.7	10.2	11.6	12.9	14.2	15.5	16.8	18.1
	Pressure Drop (Pa)	7	13	19	27	37	47	59	72	86	102	119	136
	Flow (l/s)	66	88	110	132	154	176	198	221	243	265	287	309
	NR [dB(A)]	9	15	19	23	26	29	33	37	40	43	46	48
300 X 300	Throw (m)	1.8	5.6	8	9.9	11.5	13.1	14.7	16.3	18	19.7	21.4	23.2
	Pressure Drop (Pa)	7	13	19	27	37	47	59	72	86	102	119	136
	Flow (l/s)	122	162	203	244	284	325	366	406	447	487	528	569
	NR [dB(A)]	12	18	22	26	29	34	38	42	45	48	51	53
360 X 360	Throw (m)	4.5	7.5	9.6	11.3	13	14.7	16.5	18.4	20.4	22.5	24.7	27
	Pressure Drop (Pa)	7	13	19	27	37	47	59	72	86	102	119	136
	Flow (l/s)	194	259	324	389	454	518	583	648	713	778	842	907
	NR [dB(A)]	14	20	24	28	33	38	42	46	49	52	55	57
450 X 450	Throw (m)	6.4	8.7	10.4	12	13.8	15.7	17.8	20	22.3	24.8	27.4	30
	Pressure Drop (Pa)	7	13	19	27	37	47	59	72	86	102	119	136
	Flow (l/s)	290	387	484	581	678	774	871	968	1065	1162	1258	1355
	NR [dB(A)]	16	22	26	31	37	41	45	49	52	55	58	61

SWD-Series SWIRL DIFFUSERS

FEATURES:

- Fixed radially arranged air control blades which provide high induction vortex air flow, projecting horizontally from the face of diffuser.
- The swirling air flow avoids the creation of stationary air jets, resulting in excellent mixing and uniformity of air temperature.
- High coanda effect reduces direct-throw of air on occupants.
- Ideally suited to areas of high heat load where large quantities of cool air must be rapidly mixed with room air and/or areas which require high air change in a short time.
- Able to be used for both exhaust and return airflows.
- Constructed from white powdercoated galvanised steel.
- Diffuser face can be opened without using any tools.
- Volume control via adjustable damper which is adjustable without removing ceiling panel.
- Standard sizes available for T-bar ceiling on metric or imperial size.
- Plenum box can be constructed for side or top duct entry.



DIMENSIONS (MM)								
Duct Size	A	B	C	D	E	F	G	H
250	595	190	513	535	210	60	580	250
300	595	190	513	535	230	60	580	300
350	595	190	513	535	230	60	580	350

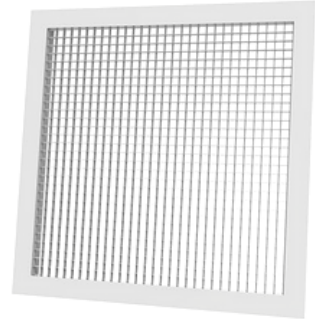
TECHNICAL SPECIFICATION

Duct Size (mm)	Collar Neck Velocity (m/s)											
	Velocity	Pressure (Pa)	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
250	Throw (m)		0.9-1.8	1.2-2.4	1.5-2.7	1.8-3.0	2.1-3.4	2.4-3.7	2.7-4.0	2.7-4.0	3.0-4.3	3.0-4.3
	Total Pressure (Pa)		6	11	17	29	39	49	61	76	91	108
	Flow (l/s)		74	99	124	149	171	196	220	245	270	294
	NR [dB(A)]		-	-	21	28	34	36	40	42	44	46
300	Throw (m)		1.2-2.4	1.5-3.0	1.8-3.4	2.4-4.0	2.7-4.3	3.0-4.6	3.4-4.6	3.7-4.9	3.7-5.2	3.9-5.5
	Total Pressure (Pa)		13	23	35	51	68	90	113	141	170	214
	Flow (l/s)		107	143	179	215	247	282	318	353	388	424
	NR [dB(A)]		-	24	30	38	41	44	47	49	51	54

ECF-Series EGGCRATE GRILLES

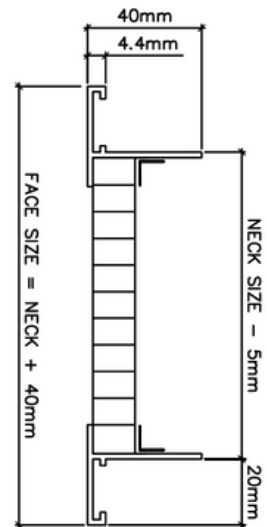
FEATURES:

- High quality aluminium construction.
- Fixed 12mm x 12mm lattice eggcrate core in flanged frame.
- Suitable for mounting in walls or ceilings.
- Typically used in return air and exhaust applications.
- Very low pressure drop.
- Standard finish - white powdercoat (other colours available on request).
- Custom sizes available if required.
- Hinged and filtered options available.



PERFORMANCE DATA

Core Velocity (m/s)	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	
Static Pressure (Pa)	2.8	5.0	7.8	11.2	15.3	20	31	45	61	
Grille Size (mm)	Air Volume and Noise Rating									
150 X 150	L/s	30	40	50	60	70	80	100	120	140
	NR					21	24	30	36	42
300 X 100	L/s	45	60	75	90	105	120	150	180	210
	NR					23	26	32	39	45
200 X 200	L/s	68	90	113	135	158	180	225	270	315
	NR				20	23	26	33	39	46
250 X 250	L/s	90	120	150	180	210	240	300	360	420
	NR				20	24	27	34	40	47
300 X 300	L/s	135	180	225	270	315	360	450	540	630
	NR			17	20	24	27	34	41	48
450 X 300	L/s	203	270	338	405	473	540	675	810	945
	NR			18	21	25	29	36	43	50
400 X 400	L/s	240	320	400	480	560	640	800	960	1120
	NR			19	22	26	30	37	45	52
600 X 300	L/s	270	360	450	540	630	720	900	1080	1260
	NR			19	23	27	31	39	46	54
500 X 400	L/s	300	400	500	600	700	800	1000	1200	1400
	NR			20	24	28	31	39	47	55
600 X 400	L/s	360	480	600	720	840	960	1200	1440	1680
	NR			20	24	28	32	40	47	55
600 X 500	L/s	450	600	750	900	1050	1200	1500	1800	2100
	NR			20	24	28	32	40	48	56
900 X 400	L/s	540	720	900	1080	1260	1440	1800	2160	2520
	NR			20	24	28	32	41	49	57
750 X 600	L/s	675	900	1125	1350	1575	1800	2250	2700	3150
	NR			21	25	29	33	41	49	57
900 X 600	L/s	810	1080	1350	1620	1890	2160	2700	3240	3780
	NR			21	25	29	33	42	50	58
1200 X 500	L/s	900	1200	1500	1800	2100	2400	3000	3600	4200
	NR			21	25	30	34	42	51	59
1200 X 600	L/s	1080	1440	1800	2160	2520	2880	3600	4320	5040
	NR			21	26	30	34	43	51	60



STANDARD SIZES

Product Code	Neck Size (mm)
ECF-1515	150 X 150
ECF-2020	200 X 200
ECF-2525	250 X 250
ECF-3030	300 X 300
ECF-3535	350 X 350
ECF-4040	450 X 450
ECF-5525	550 X 250*
ECF-5555	550 X 550**

*595mm X 295mm face size

**595mm X 595mm face size

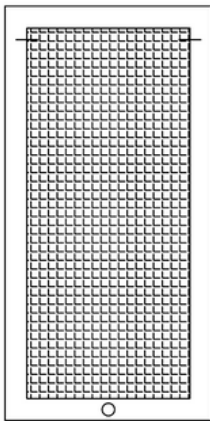
Custom sizes available on request.

ECH-Series

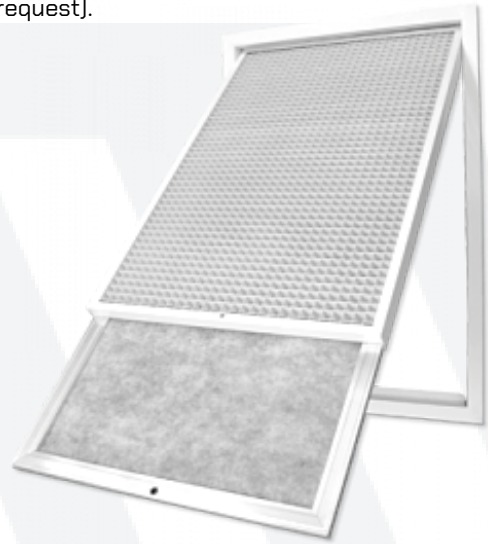
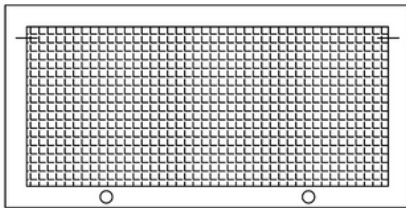
HINGED CORE EGGRATE GRILLES

FEATURES:

- High quality aluminium construction.
- Hinged 12mm x 12mm lattice eggcrate core and panel filter in flanged frame.
- Removable filter for easy cleaning.
- Suitable for mounting in walls or ceilings.
- Typically used in return air and exhaust applications.
- Very low pressure drop.
- Standard finish - white powdercoat (other colours available on request).
- Custom sizes available if required.

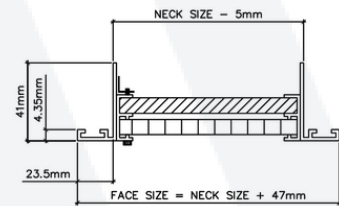


Standard grilles are hinged on the short side, but if required the grille can be hinged on the long side. This needs to be specified at time of ordering and will be custom fabricated.



PERFORMANCE DATA

Nominal Neck Size (mm)	Core Area (m ²)	Airflow (l/s) for Core Velocity			
		1.5 m/s	1.75 m/s	2.0 m/s	2.5 m/s
300 X 300	0.053	79	93	106	132
400 X 350	0.092	139	162	185	231
600 X 300	0.120	181	211	241	301
450 X 450	0.142	213	248	284	355
600 X 400	0.175	262	306	350	437
750 X 400	0.228	342	339	456	570
600 X 600	0.274	411	479	548	685
750 X 600	0.360	541	631	721	901
1200 X 400	0.373	559	653	746	932
900 X 600	0.440	660	770	880	1100
1200 X 500	0.486	729	850	972	1215



STANDARD SIZES

Product Code	Neck Size (mm)
ECH-3030	300 X 300
ECH-4040	400 X 400
ECH-5454	543 X 543*
ECH-6030	600 X 300
ECH-6040	600 X 400
ECH-6045	600 X 450
ECH-7040	700 X 400
ECH-7540	750 X 400
ECH-7555	750 X 550
ECH-9040	900 X 400
ECH-11454	1143 X 543**

*595mm X 295mm face size

**1195mm X 595mm face size

Custom sizes available on request.

FILTER SPECIFICATION

Media Type	TM50	TM30
Face Velocity	1.75 m/s	1.78 m/s
Arrestance #4 Dust	72.80%	60.50%
Initial Resistance	20 Pa	13 Pa
Dust Holding Capacity	16.7 kg/m @ 62 Pa	1.4 kg/m @ 39 Pa

Note: select grill size to suit filter face velocity. Filter performance at velocity greater than 1.8 m/s is not guaranteed.

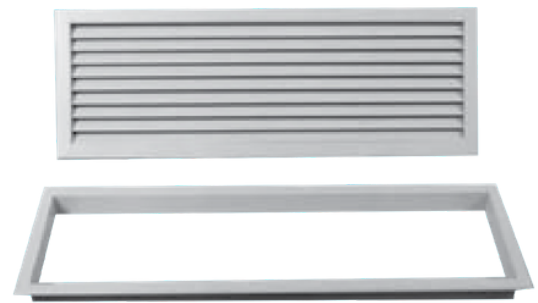
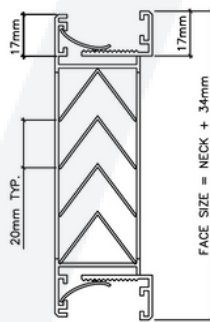
CDG-Series DOOR GRILLES

FEATURES:

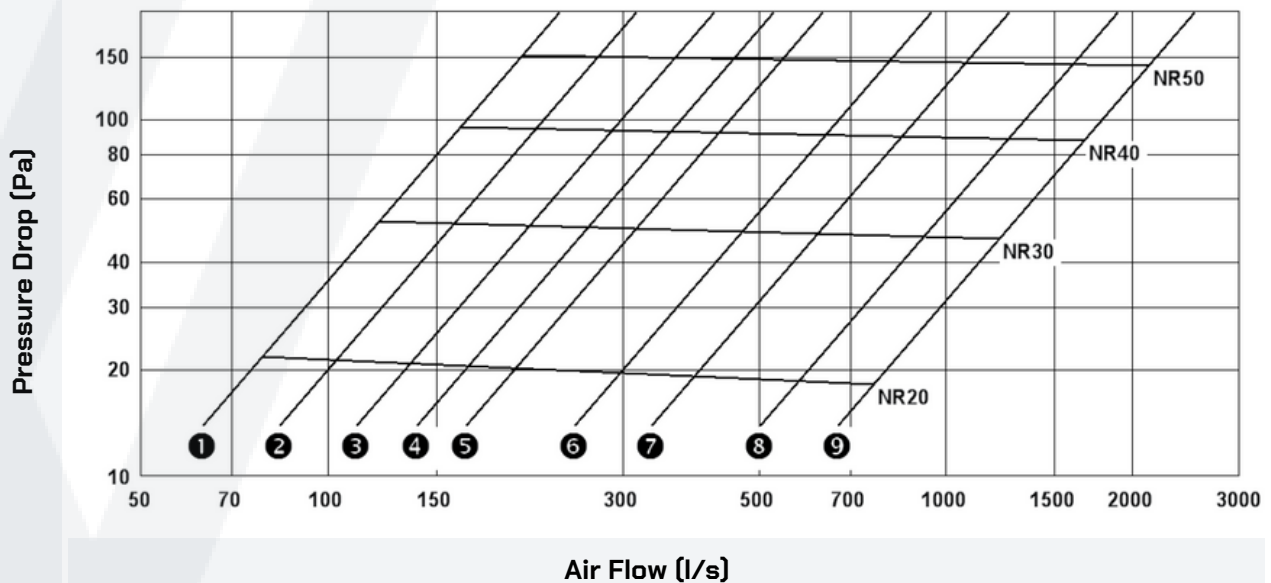
- Natural anodised aluminium construction.
- 60% free area.
- Inverted chevron "V" blades provide vision proof appearance.
- Two piece telescopic frame results in equal appearance from both sides of the door.
- Suits doors from 25mm to 45mm thick.
- Clips located on the inner frame of the door grille snap fit the outer frame, eliminating the need for visible rivets or screws.
- Security door grille (flat bar welded to face) available on request.
- Non-standard sizes can be manufactured if required.

STANDARD SIZES

Product Code	Neck Size (mm)
CDG-3016	300 X 160
CDG-4020	400 X 200
CDG-6016	600 X 160
CDG-6020	600 X 200
CDG-6026	600 X 260
CDG-6030	600 X 300
CDG-6036	600 X 360
CDG-6040	600 X 400
CDG-6046	600 X 460
CDG-6060	600 X 600



PERFORMANCE DATA



GRILLE SIZE (mm)

	1	2	3	4	5	6	7	8	9
	450 X 160	600 X 160	600 X 200	600 X 260	600 X 300	600 X 460	600 X 600	600 X 900	600 X 1200



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