

SERIES GSF

Square Fixed Swirl Diffusers

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DIFFUSERS 11

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Features

- Omni directional, swirl effect discharge.
- Horizontal projection.
- High induction effect.
- Perforated square or rectangular design.
- Standard or clip-in ceiling border options.
- Suitable for high room air change rates.



GILBERTS

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Introduction

With the GSF Series Gilberts introduce a contemporary and attractively designed range of Fixed Swirl Type Diffusers for ceiling supply and extract applications. The circular pattern of radial vanes featured on this unit provide the swirl, air distribution effect typically associated with this type of diffuser allowing the unit to introduce high volumes of air into the conditioned space, taking advantage of rapid entrainment and intermixing. On a Fixed Swirl Unit the distribution pattern is horizontal across the ceiling. As a result the unit can deliver high air change rates as compared to conventional diffusers. Notwithstanding the performance potential, aesthetic aspects have also been considered.

THE FIXED SWIRL range comprises of 4 type options:

TYPE GSFB: Circular Swirl Diffuser with fixed blades fitted into a square Perforated Face Housing Frame. The perforated face is hinged for easy access from the diffuser face. For a fixed face unit select type GSFK.

TYPE GSFC: Circular Swirl Diffuser with fixed blades fitted into a square borderless Perforated Face Housing Frame.

Blending both performance and aesthetics all models benefit from a perforated face diffuser type appearance with the swirl arrangement concealed behind the fascia, a design that lends itself well for typical ceiling grid applications. Newer models such as the GSFD are adapted for clip in ceiling grid applications and for the ultimate in discretion the GSFH model is designed to fit fully concealed behind the standard perforated ciling tile of all the popular manufacturers. An elongated model suitable for Plank type ceilings is also featured.

TYPE GSFD: Circular Swirl Diffuser with fixed blades fitted into a square Perforated Fascia adapted for Clip-in Ceiling applications.

TYPE GSFH: Circular Swirl Diffuser with fixed blades adapted for fitting behind standard perforated face ceiling tiles from the popular manufacturers.

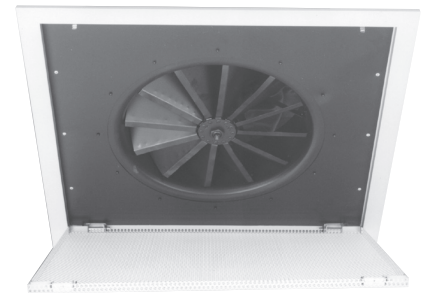
Features

- Omni directional, swirl effect discharge.
- Horizontal projection.
- High induction effect.
- Perforated square or rectangular design.
- Standard or clip-in ceiling border options.
- Suitable for high room air change rates.

All units are fabricated from a combination of aluminium and steel components and are available with a matching range of top and side entry plenum boxes. Volume control can be achieved using Quadrant flap type or iris dampers on the plenum inlet spigots. Swirl diffuser sizes range from 160 to 630mm dia as indicated in the dimensional data. Standard

finish is white for type GSFA and white perforated fascia, with unexposed internals finished matt black on all other GSF types.

Stoved finishes to any BS or RAL colour are available on request.



Performance Data

The performance tables illustrated in this brochure give tabulated performance data for each listed size of diffuser, together with their design. The figures given relate to Cooling, Ventilation and Heating Applications and always for horizontal distribution of conditioned air.

The performance data for all Gilberts products is derived using a Gilberts top connection (TCB) plenum design and specification. Performance cannot be guaranteed where alternative plenum designs are used.

References Used

Pressure: All pressures are in Pa (N/m²)

Throw: The horizontal distances for air streams are given for both 0.5 and 0.25 m/s terminal velocities and are based upon a ceiling effect.

Sound: The NC values are peak levels on the NC curves.

Selection Procedure

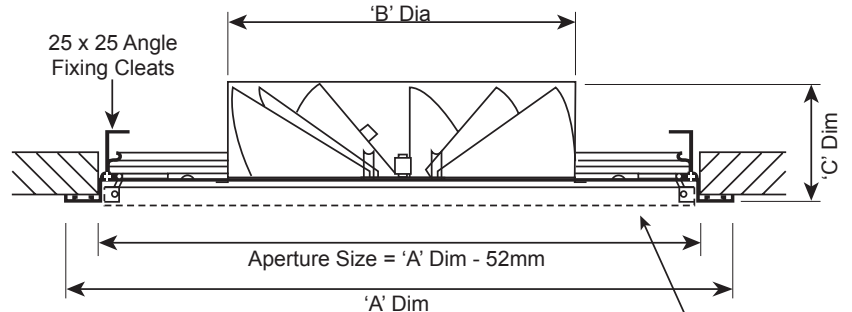
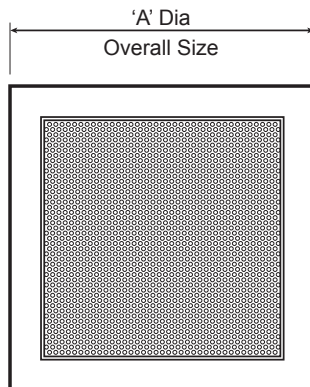
1. Try if possible to construct in plan an imaginary square ceiling grid. This will enable the designer to position each diffuser at each square centre so that distribution is even in all the directions.
2. The total volume of air is then divided by the number of outlets and a volume per diffuser is established.
3. The performance charts should then be used to select the size and type of diffuser based upon volume and throw requirements. For high ceiling applications an overblow situation can be acceptable.
4. Check pressure loss and NC levels from design chart to confirm acceptability.

Gilberts Supply Diffusers have been tested within the range of +/- 10°C (as recommended in the HEVAC Guide to Air Distribution Technology). For any other temperature differential requirements please contact our Technical Department.

SERIES GSF

Square Fixed Swirl Diffusers

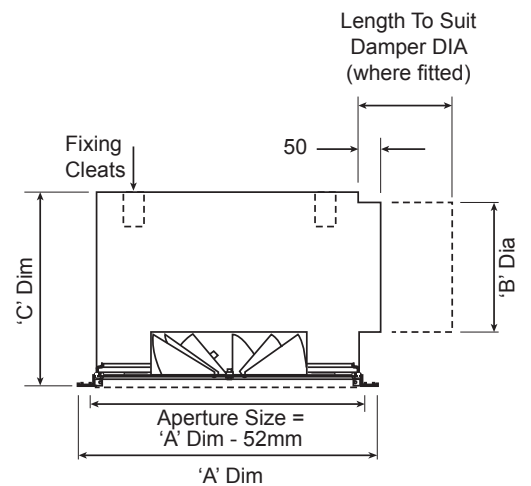
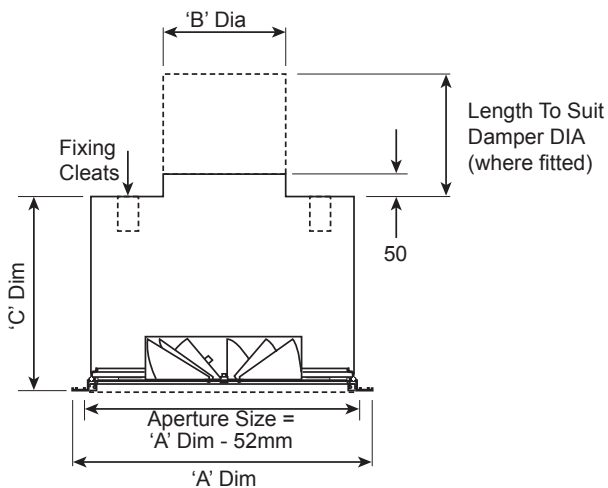
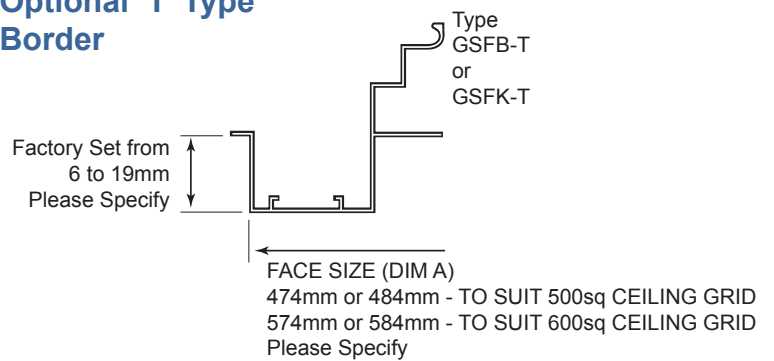
Type GSFB -
Hinged Open
Face and
GSFK -
Fixed Face



Type GSFB Hinged Opening Face
(for fixed core specify type GSFK)

GSFB & GSFK			
SIZE	A	B	C
160	300 594 600	158	119
250	594 600	248	129
315	594 600	313	139
450	594 600	448	184

Optional 'T' Type Border



GSFB - TCB GSFK - TCB			
SIZE	A	B	C
160	300 594 600	125	275
250	594 600	200	350
315	594 600	250	400
450	594 600	350	500

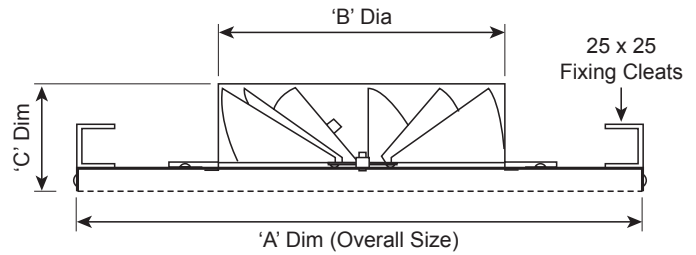
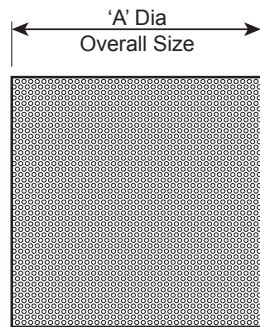
GSFB - SEB GSFK - SEB			
SIZE	A	B	C
160	300 594 600	125	275
250	594 600	200	350
315	594 600	250	400
450	594 600	350	500

TYPE GSXB & GSXK: Extract units available without swirl assembly. Dimensions as above.

SERIES GSF

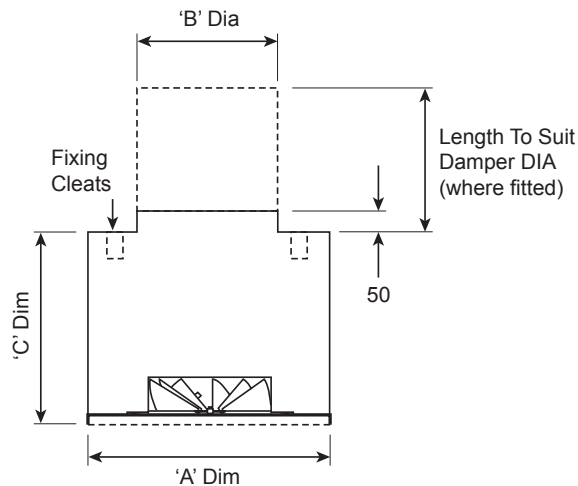
Square Fixed Swirl Diffusers

Type GSFC



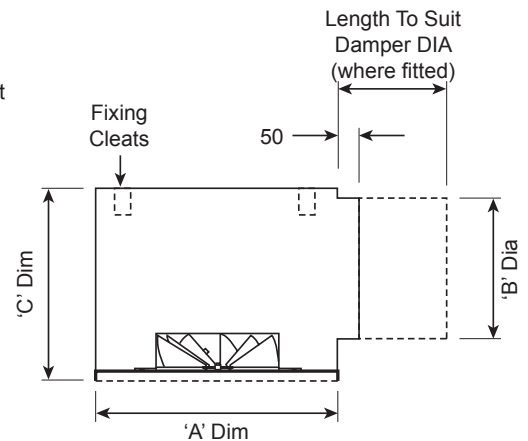
GSFC			
SIZE	A	B	C
160	294 594	158	119
250	594	248	129
315	594	313	139
450	594	448	184

DIFFUSER C/W TOP ENTRY BOX



GSFC - TCB			
SIZE	A	B	C
160	294 594	125	275
250	594	200	350
315	594	250	400
450	594	350	500

DIFFUSER C/W SIDE ENTRY BOX



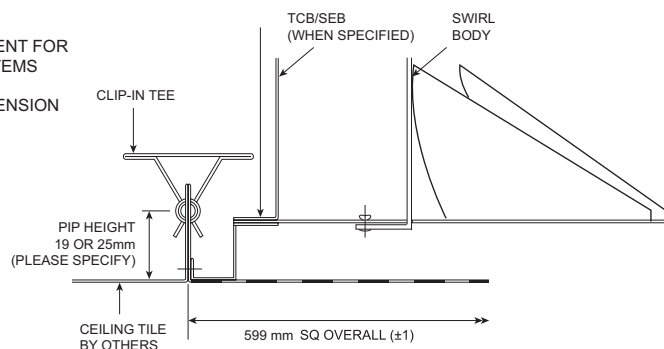
GSFC - SEB			
SIZE	A	B	C
160	294 594	125	275
250	594	200	350
315	594	250	400
450	594	350	500

Installation - On Type GSFC diffusers the Plenum is factory fitted. Combined diffuser/plenum assembly will require installation BEFORE the ceiling is erected

TYPE GSXC: Extract unit available without swirl assembly. Dimensions as above.

Type GSFD

ALTERNATIVE ARRANGEMENT FOR CLIP-IN CEILING TILE SYSTEMS
DIMENSIONS GENERALLY AS ABOVE EXCEPT 'A' DIMENSION IS 600mm

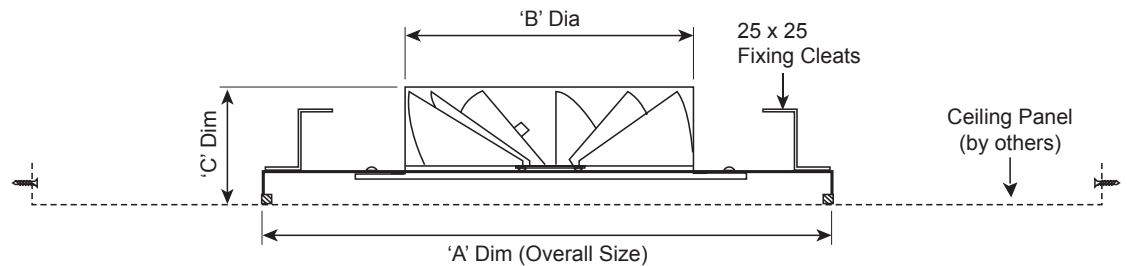


SERIES GSF

Square Fixed Swirl Diffusers

Type GSFH

The GSFH option offers a new dimension in ceiling diffuser design. For the ultimate in discretion the swirl diffuser (painted Matt Black) is mounted in a sub frame which is adapted for fitting concealed behind standard ceiling panels from popular ceiling manufacturers. The chassis for the diffuser is designed to provide both an air seal with the back of the ceiling tile face and the correct separation so that the diffuser can still provide an efficient high induction swirl air distribution effect. A minimum perforated tile free area of 40% applies. Please check with Gilberts Technical Department to ensure that the tile is suitable to achieve the correct air distribution.

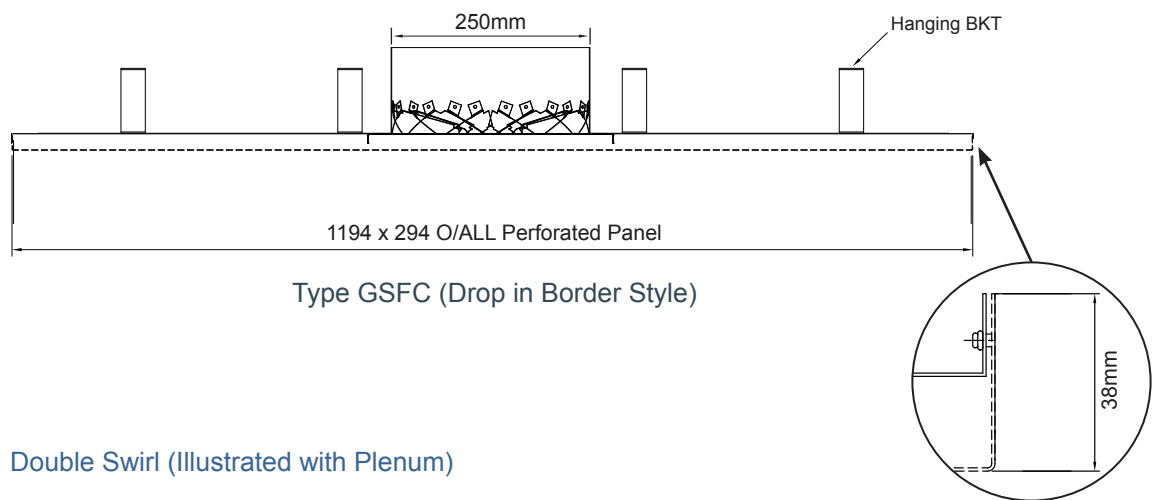


For full dimensional data see Type GSFC (Page 4).

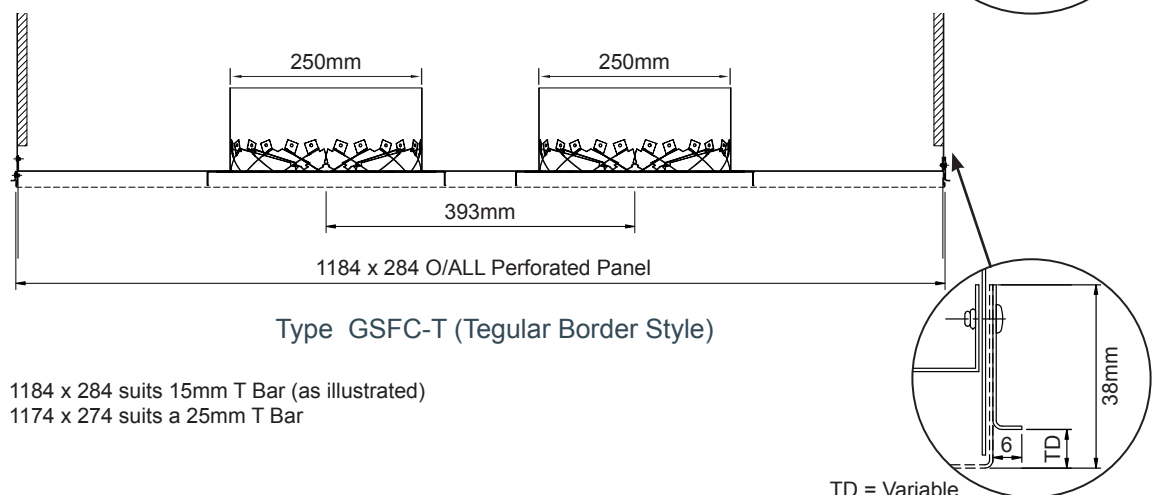
Type GSFC (Plank Style)

The GSFC model can be supplied in an elongated version to match a typical plank type ceiling with a 1200 x 300mm grid. The GSFC diffuser frame is formatted for drop in type applications with the GSFC-T frame suited for tegular type ceilings. Dependent upon the air volume and performance requirements plank style diffusers are fitted with either one or two concealed 250mm dia swirl assemblies. Blanking plates can be fitted to suit specific air volume requirements. Double units are 1/4 blanked as standard on their opposing sides.

Single Swirl (Illustrated without Plenum)



Double Swirl (Illustrated with Plenum)



1184 x 284 suits 15mm T Bar (as illustrated)
1174 x 274 suits a 25mm T Bar

TD = Variable

SERIES GSF

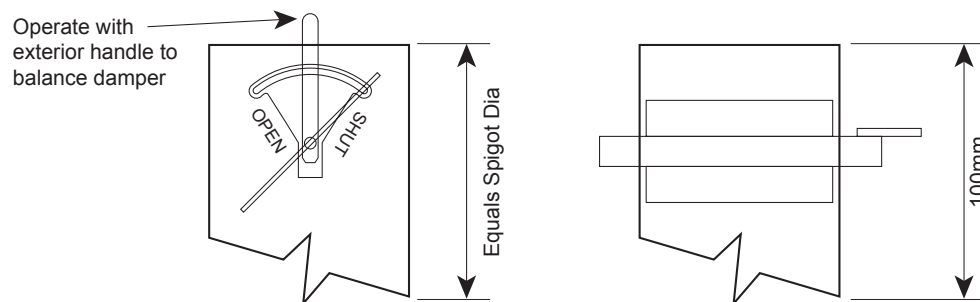
Square Fixed Swirl Diffusers

Volume Control

Series GSF offers 2 alternative methods of volume control.

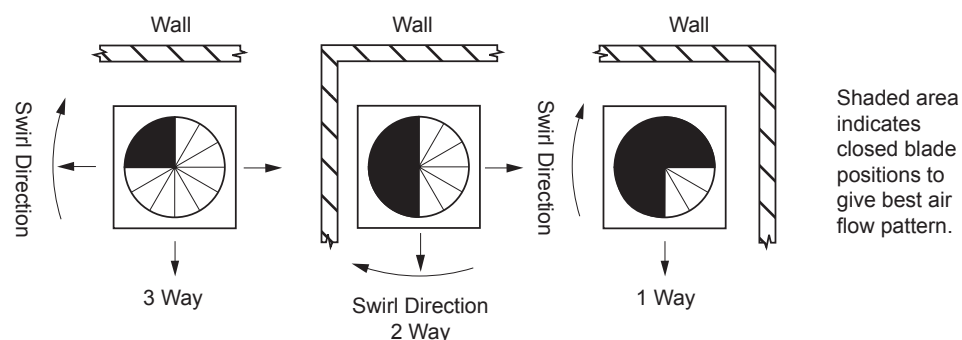
The principle means involves fitting of a manually operated flap type damper into the inlet spigot of the top or side entry plenum box.

For a more sophisticated form of control however an iris damper can also be supplied. Full technical details on iris dampers are available in a separate data sheet.



Air Distribution Pattern

Although the discharge pattern for all swirl diffusers is omni directional, 2 way and 3 way distribution patterns can be achieved where necessary by factory fitted blanking plates in the positions illustrated.

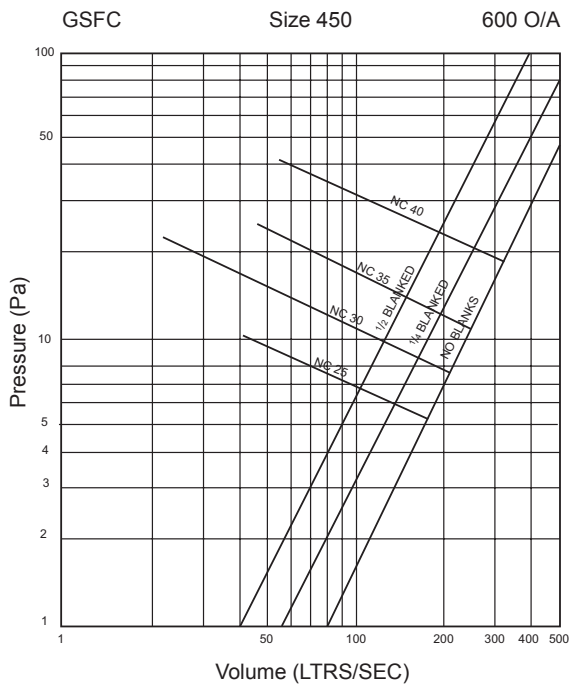
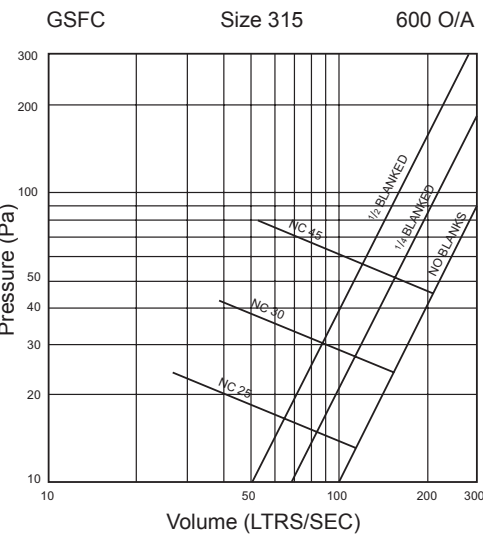
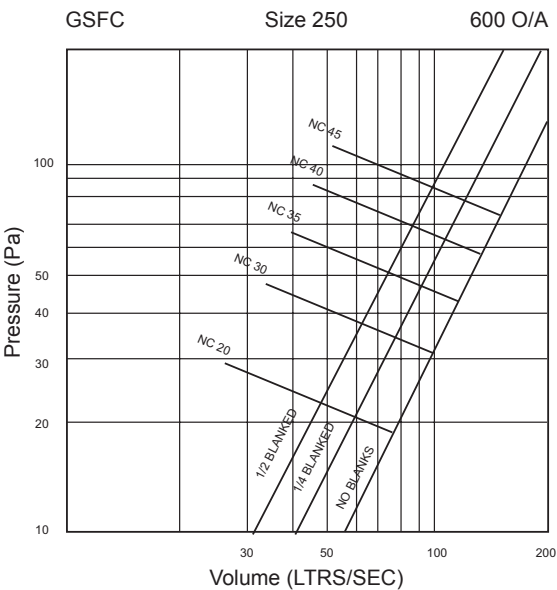
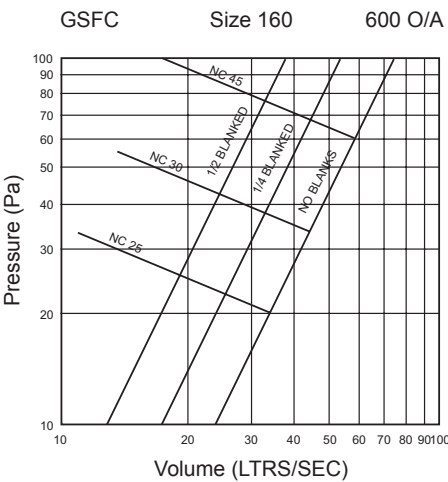


SERIES GSF

Square Fixed Swirl Diffusers

Pressure Graphs

The following graphs indicate the revised pressure/volume relationship and associated noise levels attributable, when blanking swirls diffusers



Data based on GSFC & GSFB types with S.E.B

SERIES GSF

Square Fixed Swirl Diffusers

Technical Performance Data Series GSFB & GSFK

Type GSFB/GSFK

Size 160

NECK VELOCITY (M/S)	1.25	1.5	1.75	2.0	2.25	2.5	2.75	3.0
VOLUME FLOW RATE (M ³ /S)	0.025	0.030	0.035	0.040	0.045	0.050	0.055	0.060
PRESSURE DROP (Pa) Static	TOP ENTRY	11	16	19	25	31	37	44
	SIDE ENTRY	13	17	21	26	33	40	48
	STRAIGHT CONNECTIONS	7	10	14	18	22	27	32
THROW TO 0.25 M/S (M)	AT + 10 °C	0.7	0.8	0.9	1.0	1.2	1.5	1.8
	AT + 5 °C	0.7	0.8	0.9	1.0	1.2	1.5	1.8
	ISOTHERMAL	0.5	0.6	0.7	0.8	1.0	1.1	1.2
	AT - 5 °C	0.7	0.8	0.9	1.0	1.1	1.4	1.5
	AT - 10 °C	0.7	0.8	0.9	1.0	1.1	1.4	1.5
THROW TO 0.5 M/S (M)	AT + 10 °C	-	-	-	0.3	0.5	0.6	0.8
	AT + 5 °C	-	-	-	0.3	0.5	0.6	0.8
	ISOTHERMAL	-	-	-	0.3	0.5	0.6	0.8
	AT - 5 °C	-	-	-	0.4	0.6	0.7	0.9
	AT - 10 °C	-	-	-	0.4	0.6	0.7	0.9
NOISE LEVEL (NC)		20	25	25	30	30	35	40

Type GSFB/GSFK

Size 250

NECK VELOCITY (M/S)	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00
VOLUME FLOW RATE (M ³ /S)	0.061	0.073	0.085	0.098	0.11	0.122	0.134	0.147
PRESSURE DROP (Pa) Static	TOP ENTRY	9	13	19	25	32	39	48
	SIDE ENTRY	11	16	22	30	38	47	54
	STRAIGHT CONNECTIONS	8	11	16	20	26	32	41
THROW TO 0.25 M/S (M)	AT + 10 °C	1.1	1.3	1.4	1.7	2.0	2.3	2.7
	AT + 5 °C	1.0	1.2	1.4	1.5	1.7	2.0	2.3
	ISOTHERMAL	0.7	0.9	1.0	1.2	1.4	1.6	1.7
	AT - 5 °C	1.0	1.2	1.4	1.5	1.7	1.9	2.0
	AT - 10 °C	1.1	1.3	1.5	1.7	1.8	2.0	2.2
THROW TO 0.5 M/S (M)	AT + 10 °C	0.3	0.5	0.7	0.9	1.1	1.2	1.5
	AT + 5 °C	0.3	0.5	0.6	0.7	0.8	1.0	1.2
	ISOTHERMAL	-	-	0.3	0.5	0.7	0.8	1.0
	AT - 5 °C	-	-	0.3	0.6	0.9	1.0	1.2
	AT - 10 °C	-	-	0.5	0.7	1.0	1.1	1.3
NOISE LEVEL (NC)		20	20	30	30	35	35	40

Type GSFB/GSFK

Size 315

NECK VELOCITY (M/S)	1.25	1.5	1.75	2.0	2.25	2.5	2.75	3.0
VOLUME FLOW RATE (M ³ /S)	0.097	0.116	0.136	0.155	0.175	0.194	0.214	0.233
PRESSURE DROP (Pa) Static	TOP ENTRY	10	14	17	21	26	31	36
	SIDE ENTRY	11	15	18	23	28	33	38
	STRAIGHT CONNECTIONS	8	11	14	17	24	27	34
THROW TO 0.25 M/S (M)	AT + 10 °C	1.5	1.8	2.0	2.4	2.8	3.2	3.6
	AT + 5 °C	1.4	1.7	1.9	2.0	2.2	2.6	2.9
	ISOTHERMAL	1.0	1.2	1.4	1.6	1.9	2.1	2.3
	AT - 5 °C	1.4	1.7	1.9	2.1	2.3	2.4	2.5
	AT - 10 °C	1.6	1.9	2.1	2.5	2.6	2.7	2.9
THROW TO 0.5 M/S (M)	AT + 10 °C	0.6	1.0	1.2	1.5	1.7	1.9	2.2
	AT + 5 °C	0.6	0.7	0.9	1.1	1.2	1.4	1.6
	ISOTHERMAL	0.4	0.6	0.7	0.8	1.0	1.1	1.3
	AT - 5 °C	0.4	0.6	0.7	0.9	1.1	1.2	1.4
	AT - 10 °C	0.5	0.7	0.9	1.0	1.3	1.5	1.7
NOISE LEVEL (NC)		20	25	30	30	40	45	50

Type GSFB/GSFK

Size 450

NECK VELOCITY (M/S)	1.25	1.5	1.75	2.0	2.25	2.5	2.75	3.0
VOLUME FLOW RATE (M ³ /S)	0.198	0.238	0.278	0.318	0.357	0.397	0.437	0.477
PRESSURE DROP (Pa) Static	TOP ENTRY	5	7	9	12	16	20	24
	SIDE ENTRY	6	8	11	14	19	24	29
	STRAIGHT CONNECTIONS	6	9	12	15	20	25	29
THROW TO 0.25 M/S (M)	AT + 10 °C	2.4	2.7	3.1	3.6	3.8	4.2	4.5
	AT + 5 °C	2.1	2.4	2.7	3.0	3.2	3.5	3.8
	ISOTHERMAL	1.8	1.9	2.1	2.4	2.5	2.7	2.9
	AT - 5 °C	1.7	1.8	2.0	2.3	2.4	2.6	2.7
	AT - 10 °C	1.7	1.8	2.0	2.3	2.4	2.6	2.7
THROW TO 0.5 M/S (M)	AT + 10 °C	0.9	1.2	1.4	1.7	2.0	2.2	2.4
	AT + 5 °C	0.8	1.1	1.3	1.5	1.7	2.0	2.2
	ISOTHERMAL	0.8	1.0	1.3	1.5	1.6	1.8	2.0
	AT - 5 °C	0.7	1.0	1.2	1.3	1.5	1.6	1.8
	AT - 10 °C	0.7	1.0	1.2	1.3	1.5	1.6	1.8
NOISE LEVEL (NC)		20	25	35	40	40	45	50

SERIES GSF

Square Fixed Swirl Diffusers

Technical Performance Data Series GSFC & GSFD

Type GSFC/GSFD

Size 160

NECK VELOCITY (M/S)	1.25	1.5	1.75	2.0	2.25	2.5	2.75	3.0
VOLUME FLOW RATE (M ³ /S)	0.025	0.030	0.035	0.040	0.045	0.050	0.055	0.060
PRESSURE DROP (Pa)	TOP ENTRY	11	16	19	25	31	37	44
	SIDE ENTRY	13	17	21	26	33	40	48
	Static	7	10	14	18	22	27	32
THROW TO 0.25 M/S (M)	AT +10°C	0.7	0.8	0.9	1.0	1.2	1.5	2.0
	AT +5°C	0.7	0.8	0.9	1.0	1.2	1.5	2.0
	ISOTHERMAL	0.5	0.6	0.7	0.8	1.0	1.1	1.2
	AT -5°C	0.7	0.8	0.9	1.0	1.1	1.4	1.6
	AT -10°C	0.7	0.8	0.9	1.0	1.1	1.4	1.6
THROW TO 0.5 M/S (M)	AT +10°C	-	-	-	0.3	0.5	0.6	1.0
	AT +5°C	-	-	-	0.3	0.5	0.6	1.0
	ISOTHERMAL	-	-	-	0.3	0.5	0.6	1.0
	AT -5°C	-	-	-	0.4	0.6	0.7	1.1
	AT -10°C	-	-	-	0.4	0.6	0.7	1.1
NOISE LEVEL (NC)		20	25	25	30	30	35	40

Type GSFC/GSFD

Size 250

NECK VELOCITY (M/S)	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00
VOLUME FLOW RATE (M ³ /S)	0.061	0.073	0.085	0.098	0.11	0.122	0.134	0.147
PRESSURE DROP (Pa)	TOP ENTRY	9	13	19	25	32	39	48
	SIDE ENTRY	11	16	22	30	38	47	54
	Static	8	11	16	20	26	32	41
THROW TO 0.25 M/S (M)	AT +10°C	1.1	1.3	1.4	1.7	2.0	2.3	3.0
	AT +5°C	1.0	1.2	1.4	1.5	1.7	2.0	2.3
	ISOTHERMAL	0.7	0.9	1.0	1.2	1.4	1.6	1.8
	AT -5°C	1.0	1.2	1.4	1.5	1.7	1.9	2.1
	AT -10°C	1.1	1.3	1.5	1.7	1.8	2.0	2.3
THROW TO 0.5 M/S (M)	AT +10°C	0.3	0.5	0.7	0.9	1.1	1.2	1.5
	AT +5°C	0.3	0.5	0.6	0.7	0.8	1.0	1.2
	ISOTHERMAL	-	-	0.3	0.5	0.7	0.8	1.0
	AT -5°C	-	-	0.3	0.6	0.9	1.0	1.2
	AT -10°C	-	-	0.5	0.7	1.0	1.1	1.5
NOISE LEVEL (NC)		20	20	30	30	35	35	40

Type GSFC/GSFD

Size 315

NECK VELOCITY (M/S)	1.25	1.5	1.75	2.0	2.25	2.5	2.75	3.0
VOLUME FLOW RATE (M ³ /S)	0.097	0.116	0.136	0.155	0.175	0.194	0.214	0.233
PRESSURE DROP (Pa)	TOP ENTRY	10	14	17	21	26	31	36
	SIDE ENTRY	11	15	18	23	28	33	38
	Static	8	11	14	17	24	27	34
THROW TO 0.25 M/S (M)	AT +10°C	1.5	1.8	2.0	2.4	2.8	3.2	3.6
	AT +5°C	1.4	1.7	1.9	2.0	2.2	2.6	2.9
	ISOTHERMAL	1.0	1.2	1.4	1.6	1.9	2.1	2.3
	AT -5°C	1.4	1.7	1.9	2.1	2.3	2.4	2.5
	AT -10°C	1.6	1.9	2.1	2.5	2.6	2.7	3.0
THROW TO 0.5 M/S (M)	AT +10°C	0.6	1.0	1.2	1.5	1.7	1.9	2.2
	AT +5°C	0.6	0.7	0.9	1.1	1.2	1.4	1.6
	ISOTHERMAL	0.4	0.6	0.7	0.8	1.0	1.1	1.3
	AT -5°C	0.4	0.6	0.7	0.9	1.1	1.2	1.4
	AT -10°C	0.5	0.7	0.9	1.0	1.3	1.5	1.7
NOISE LEVEL (NC)		20	25	30	30	40	45	50

Type GSFC/GSFD

Size 450

NECK VELOCITY (M/S)	1.25	1.5	1.75	2.0	2.25	2.5	2.75	3.0
VOLUME FLOW RATE (M ³ /S)	0.198	0.238	0.278	0.318	0.357	0.397	0.437	0.477
PRESSURE DROP (Pa)	TOP ENTRY	5	7	9	12	16	20	24
	SIDE ENTRY	6	8	11	14	19	24	29
	Static	6	9	12	15	20	25	29
THROW TO 0.25 M/S (M)	AT +10°C	2.4	2.7	3.1	3.6	3.8	4.2	4.5
	AT +5°C	2.1	2.4	2.7	3.0	3.2	3.5	3.8
	ISOTHERMAL	1.8	1.9	2.1	2.4	2.5	2.7	2.9
	AT -5°C	1.7	1.8	2.0	2.3	2.4	2.6	2.7
	AT -10°C	1.7	1.8	2.0	2.3	2.4	2.6	2.7
THROW TO 0.5 M/S (M)	AT +10°C	0.9	1.2	1.4	1.7	2.0	2.2	2.4
	AT +5°C	0.8	1.1	1.3	1.5	1.7	2.0	2.2
	ISOTHERMAL	0.8	1.0	1.3	1.5	1.6	1.8	2.0
	AT -5°C	0.7	1.0	1.2	1.3	1.5	1.6	1.8
	AT -10°C	0.7	1.0	1.2	1.3	1.5	1.6	1.8
NOISE LEVEL (NC)		20	25	35	40	40	45	55

GSFC & D Plank Tile (1 & 2 Swirl Inlets)

Size 250 & 2 x 250

Neck Velocity (M/S)		1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00
1-Swirl	Volume Flow Rate (M3/s)	0.061	0.073	0.085	0.098	0.11	0.122	0.134	0.147
	Volume Flow Rate (M3/s)	0.092	0.110	0.128	0.147	0.165	0.183	0.201	0.221
Pressure Drop (Pa)	Top Entry	9	13	19	25	32	39	48	52
	Side Entry	11	16	22	30	38	47	54	68
	Straight Connections	8	11	16	20	26	32	41	48
Throw to .25 M/S (M)	AT +10 C	1.1	1.3	1.4	1.7	2.0	2.3	2.7	3.0
	AT +5 C	1.0	1.2	1.4	1.7	2.0	2.3	2.7	3.0
	Isothermal	0.7	0.9	1.0	1.2	1.4	1.6	1.7	1.8
	AT -10 C	1.0	1.2	1.4	1.5	1.7	1.9	2.0	2.1
	AT -5 C	1.1	1.3	1.5	1.7	1.8	2.0	2.2	2.3
Throw to .5 M/S (M)	AT +10 C	0.3	0.5	0.7	0.9	1.1	1.2	1.5	1.7
	AT +5 C	0.3	0.5	0.6	0.7	0.8	1.0	1.2	1.4
	Isothermal	-	-	0.3	0.5	0.7	0.8	1.0	1.2
	AT -10 C	-	-	0.3	0.6	0.9	1.0	1.2	1.4
	AT -5 C	-	-	0.5	0.7	1.0	1.1	1.3	1.5
Noise Level NC	Straight Connections	20	20	25	25	30	30	35	35
	SEB	20	20	30	30	35	35	40	45

SERIES GSF

Square Fixed Swirl Diffusers

Ordering Specification (Diffuser)

SERIES GSFB to K GSFB/OP1 TO 5*	GSFR	160	594	TD8	P1	PIP 19	SB	PPC RAL 9010 20% GLOSS (standard finish)	15
LIST SIZE (DIA MM)									
OVERALL SIZE mm (Applies to GSFB, C & K only)									
REGULAR DROP DEPTH (mm) (GSFBT & GSFKT only)..... TD + DEPTH									
BLANKING PLATE OPTIONS P1, P2, P3									
PIP HEIGHT (mm): (GSFD only) PIP + HEIGHT									
SUPPORT BRACKETS (required without plenum)..... SB									
FINISH (please specify)									
NUMBER REQUIRED									

* - See operating theatre diffuser selection guides for further information. For operating theatre diffusers the size is fixed at 450dia with a 300 dia spigot with no insulation or matt black finish on the plenum

Fixing

Standard fixing is drill through the neck into adjacent ductwork however support brackets can be also specified for drop rod support (rods by others). Alternatively an internal fixing where drop rods can locate inside the plenum can be provided which can be useful in plaster ceilings.

Please contact head office for details.

Finish

Standard finish: PPC White RAL 9010 20% gloss.

Special Finishes: PPC to Stock BS or RAL colour.

Suspended Ceilings

All items installed into suspended ceilings must be supported independently of the grid. Any feature offered to suit ceiling type, is for alignment purposes only.

SERIES GSF

Square Fixed Swirl Diffusers

Ordering Specification (Plenum)

SERIES TCB/GSFB to K SEB/GSFB to K	SEB GSFB	AT1	EP	160-594	BH500	BB	DQ 150 DIA	TSO	DQ 150 DIA	15
THERMAL / ACOUSTIC INSULATION (SEB ONLY) 12mm Pyro (standard) .. AT1 25mm Pyro AT2 12mm Closed cell* AT3										
PLENUM BOX FIXING TYPE External (standard) EP Internal IP										
TO FIT DIFFUSER SIZE (List Size + Overall Size)										
BOX HEIGHT (Where Different From Standard)										
MATT BLACK FINISH (internal & external) BB										
SPIGOT & DAMPER OPTIONS (Plus NOMINAL Spigot Size): No Damper SS + SIZE Quadrant DQ + SIZE Cord Operated. DC + SIZE Iris DI + SIZE										
TWIN SPIGOT OPTIONS: Adjacent TSA Opposite TSO										
2nd SPIGOT & DAMPER OPTION (see above)										
NUMBER REQUIRED										

Exposed Plenums

Please advise where plenums are exposed. **Galvalike®** is the default finish for exposed plenum boxes. A unique powder coated finish formulated to best match British galvanised material, whilst protecting the products from finish variation and moisture damage etc. Plenums may also be powder coated to suit grille/diffuser finish. For alternative plenum finishes, please contact head office.

Thermal/Acoustic Insulation [AT1, AT2 and AT3]

Plenum box can be fully lined with 12mm [standard] or 25mm Pyrosorb thermal/acoustic insulation. Alternatively 12mm closed cell* can also be specified.

**Class '0' fire-rated, closed cell, elastomeric PVC nitrile foam.*

GILBERTS

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