

SERIES GA

Swirl Diffusers

PUBLICATION

DIFFUSERS 25

APRIL 2026



Features

- Visual new swirl pattern designs
- Circular faceplate and plenum specifically designed for modern ceilings
- Faceplates are fabricated from 1.2mm galvanised steel
- Caters for volumes from 60l/s up to 250l/s
- High performance concealed impeller with swirl air distribution effect which allows delivery of high volumes of air into the conditioned space taking advantage of its rapid entrainment and mixing capabilities



GILBERTS

SERIES GA

Fixed Swirl Diffusers

Introduction

Series GA provides a new extra dimension on the popular and effective swirl diffuser theme. Complementing Gilberts' existing swirl diffuser range, the new GA series has been introduced to provide a stylish and dynamic range of architectural and design style swirl options which combine appealing aesthetics with cost effective solutions.

Primarily the diffuser is offered with a circular face plate design with a unique radial pattern air distribution core. The core pattern can even be altered to a wide variety of different swirl type patterns although performance would then need to be verified.

Each configuration provides a high performance swirl air distribution effect which allows them to deliver high volumes of air into the conditioned space taking advantage of its rapid entrainment and mixing capabilities.

The diffuser works well in exposed or plaster ceiling applications.

Model Type A, with a built-in air volume reduction plate caters for lower [S] volumes. Type B with no reduction feature caters for higher volumes [H].

Performance Data

The performance tables that are illustrated in the brochure give tabulated performance for each listed size of diffuser, together with their design. The figures given relate to cooling, ventilation and heating applications and are given for a horizontal distribution.

The performance data for all Gilberts products is derived from a Gilberts plenum design and specification. Performance cannot be guaranteed where alternative plenum designs are used.

References used

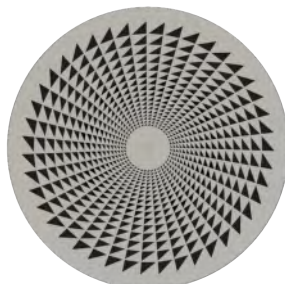
- Pressure:** All pressures are given in Pa [Newton per m²].
- Throw:** The horizontal distances are given for both 0.5 and 0.25m/s terminal velocities.
- Sound:** The dbA values are peak values on the dbA scale.

Features

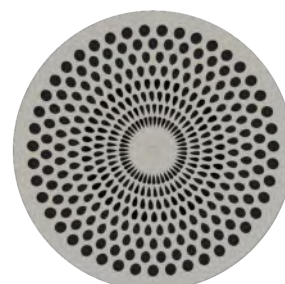
- Visual new swirl pattern designs
- Circular faceplate and plenum specifically designed for modern plaster and exposed ceilings
- Faceplates are fabricated from 1.2mm galvanised steel
- Caters for volumes from 60l/s up to 250l/s
- High performance concealed impeller with swirl air distribution effect which allows delivery of high volumes of air into the conditioned space taking advantage of its rapid entrainment and mixing capabilities



Faceplate 1



Faceplate 2



Faceplate 3



Faceplate 4



Faceplate 5

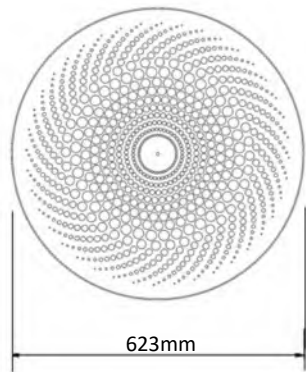


Faceplate 6

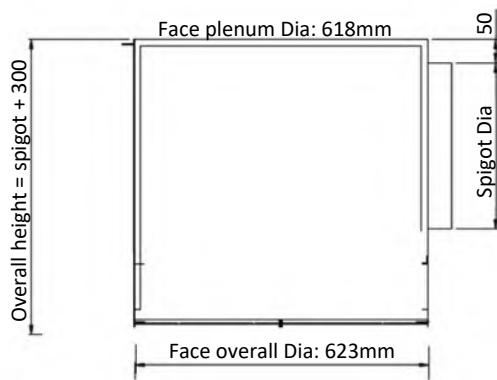
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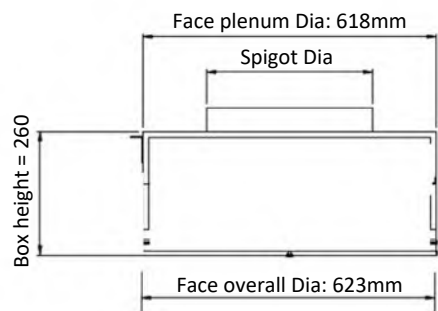
Size Guide



Diffuser with side entry



Diffuser with top entry



Performance Data

Type GA-S [faceplate 1-3]

AIR VOLUME [VOL l/s]		60	80	100	120
NOISE [dbA]		26	29	32	35
PRESSURE DROP STATIC [PA]		8	11	15	20
THROW [0.5/0.25m/s]	ISOTHERMAL	0.7/1.2	0.9/1.4	1.2/1.8	1.6/2.1
	AT -10° K	0.4/0.8	0.5/1.0	0.8/1.3	1.1/1.4

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Performance Data

Type GA-H [faceplate 1-3]

AIR VOLUME [VOL l/s]		110	130	150	170
NOISE [dba]		30	35	39	43
PRESSURE DROP STATIC [PA]		11	15	21	30
THROW [0.5/0.25m/s]	ISOTHERMAL	1.0/1.6	1.4/2.0	1.7/2.3	2.0/2.5
	AT -10° K	0.6/1.2	0.9/1.5	1.2/1.8	1.4/1.9

Type GA-S [faceplate 4-6]

AIR VOLUME [VOL l/s]		60	75	90	105	120	135	150
PRESSURE DROP STATIC [PA]		3.1	5	7.4	10.5	14	18	23
10° COOLING	THROW IN METRES TO 0.25m/s	1.2	1.4	1.5	1.6	1.8	1.9	2
	THROW IN METRES TO 0.50m/s	0.5	0.6	0.7	0.9	1	1.1	1.2
ISOTHERMAL	THROW IN METRES TO 0.25m/s	2	2.1	2.2	2.3	2.5	2.6	2.7
	THROW IN METRES TO 0.50m/s	1.2	1.3	1.4	1.6	1.7	1.8	1.9
NOISE [dba]		26	28	29	30	32	30	38

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Performance Data

Type GA-H [faceplate 4-6]

AIR VOLUME [VOL l/s]		130	150	170	190	210	230	250
PRESSURE DROP STATIC [PA]		6.3	8.6	11	14	18	22	26
10° COOLING	THROW IN METRES TO 0.25m/s	1	1.2	1.3	1.4	1.5	1.7	1.8
	THROW IN METRES TO 0.50m/s	0.6	0.7	0.9	1	0.9	1.1	1.3
ISOTHERMAL	THROW IN METRES TO 0.25m/s	1.6	1.8	2	2.1	2.3	2.5	2.7
	THROW IN METRES TO 0.50m/s	0.9	1.1	1.3	1.4	1.5	1.7	1.9
NOISE [dba]		28	31	34	37	40	44	46

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Ordering Specification [Diffuser & Plenum]

PRODUCT IDENTIFIER GA-S [standard] GA-H [higher volume]	GA-S	1	TCB	AT1	SS250	RAL9010	10
FACEPLATE STYLE 1 - 6							
PLENUM Top entry plenum TCB Side entry plenum SEB							
THERMAL/ACOUSTIC INSULATION [SEB ONLY] 12mm PYRO.....AT1 25mm PYRO.....AT2							
SPIGOT & DAMPER OPTIONS [PLUS NOMINAL SPIGOT SIZE] No damper.....SS + size Quadrant.....DQ + size Cord op.....DC + size IRIS.....DI + size							
FINISH Please specify							
NUMBER REQUIRED Order quantity							

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.

GILBERTS

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