

EL – Eyelash (Curved Blade) Diffusers

Model: EL

Holyoake EL diffusers present a clean, functional, strong appearance, along with economy and high performance.

They are so versatile that this one series can often be used throughout an entire installation. They are an excellent choice for high sidewall and low sidewall, as well as ceiling applications. There is a wide selection of sizes and deflection patterns and the adjustable louvers and optional dampers add flexibility in operation. Special sizes and designs can also be furnished.

Features

- Extruded aluminium louvers are individually adjustable from the face of the diffuser.
- Three different fixing arrangements are available. Surface mounting in wall or ceiling openings, plain, or panel fixing in suspended ceiling 'T-Rails'.
- Optional Volume Control Damper is adjustable from the face of the diffuser. Opposed blade design meters air precisely, from the fully open to the fully closed position, with minimum disturbance of the air pattern.
- One piece construction is used in sizes up to 900 x 900.

Construction

Extruded aluminium louvers and frame.*

* = Model EL-P Panel is 0.75 mm Steel.

Air Deflection Combinations

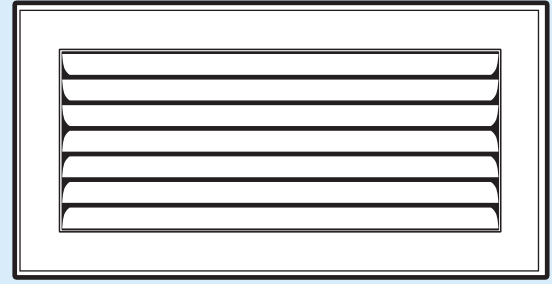
The various air deflection patterns in the plane of the diffuser face are shown in the diagrams. In addition, these patterns can be varied by the louver positions for different spreads and throws.

The capacity tables, pages 106D through to 109D, show the performances of the various air deflection patterns.

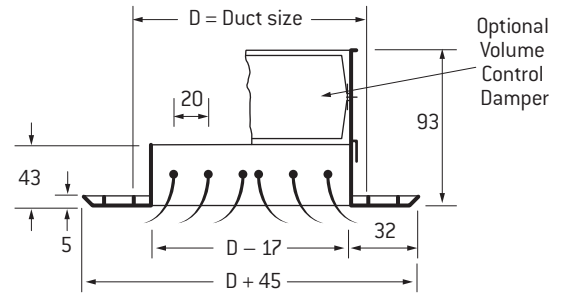
Note: Square diffusers can be rotated in their mountings.

Guide Weights For Core Styles Shown		
Model	Size	Approximate Weight in Kg.
EL1-L	1000 x 150	1.75
EL2-L	1000 x 300	2.94
EL3-L	1000 x 300	2.97
EL4-L	1000 x 450	4.15

Model: EL2-L



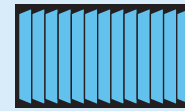
Eyelash Diffuser



Surface Mount

Core Style (Reflected Ceiling Plan)

One-way



EL1-S



EL1-L

Two-way Corner

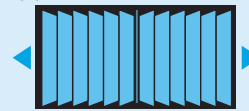


EL2-CL



EL2-CR

Two-way Opposite



EL2-S



EL2-L

Three-way



EL3-S

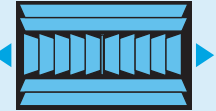


EL3-L

Four-way



EL4-S



EL4-L

Model: EL-P for Suspended Ceilings

Panel Diffusers

For installation in all suspended acoustic, or metal tile ceilings. Sized to fit standard ceiling module dimensions.

Module Sizes:

300 x 300	600 x 600	1200 x 600
300 x 600	600 x 900	

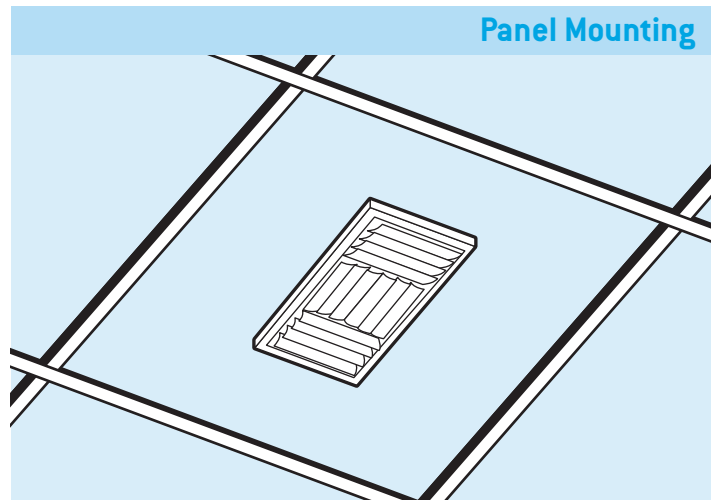
Exposed 'T'

Actual panel dimension is 5 mm less than module nominated.

Concealed 'T'

Consult factory with details of ceiling system being used. Normally, panels are same size as ceiling tile, but depth and fixing systems vary.

For approximate weights, please contact your local Holyoake branch.



Model: TLC-EL

Model TLC-EL is designed specifically for direct mounting on to Holyoake Spiroloc rigid round duct. Only a restricted range of sizes are available as shown.

When selecting from the EL selection data, allowance must be made for the neck area reduction caused by the angle between the two sides. This can be approximated by using selection data for a grille **50mm less in height** than nominal, as shown in the table. *Where mounting duct diameter is greater than double the minimum listed, this correction can be ignored.

Allowance must also be made to the throw data that is based on a ceiling effect, which is not present for diffusers mounted on exposed round ducts.

Specify duct construction at time of ordering. Volume control damper can be added at rear of diffuser but requires an additional 30mm gap from the diffuser.

Example:

Select TLC-EL, 2 way for 0.083 m³/s and

Vt 0.25 m/s, 6.4 m.

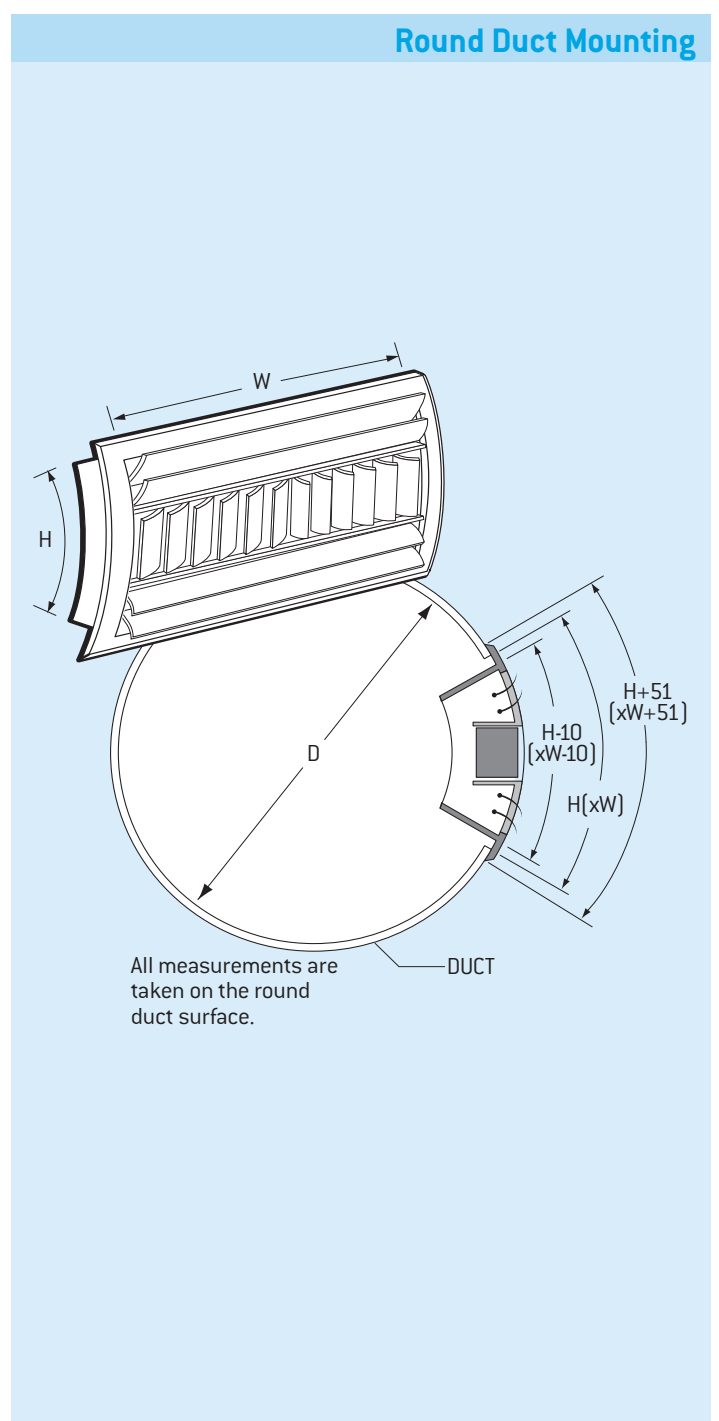
*Data shows 400 x 100 TLC-EL2L [See Page 107D].

Select a nominal size 400 x 150 TLC-EL2L

Nominal Width, W	Nominal Height, H	Minimum Duct Diameter, D	*Selection Height
300	150	300	100
400	200	400	150
500	250	500	200
600	300	600	250

Maximum nominal diffuser width: 600mm.

Guide Weights For Core Styles Shown		
Model	Size	Approximate Weight in Kg.
EL2-L	300 x 150	0.45
EL2-L	400 x 200	0.90
EL2-L	500 x 250	1.13
EL2-L	600 x 300	1.58



Size mm	Pattern	Core. Vel. m/s	0.51	1.02	1.53	2.04	2.55	3.06	3.57	4.08	4.59	5.10
		Vel. Press.	0	1	1	3	4	6	8	10	13	16
		Tot. Press.	1	4	8	14	23	33	44	57	73	89
*150 x 100 Ac = 0.011 m ²	All	m ³ /s	0.005	0.012	0.017	0.024	0.028	0.033	0.040	0.045	0.052	0.057
		NC				14	20	24	28	32	35	38
	2	Throw, m	-	-	-	1.5-4.0	2.1-4.9	2.4-5.8	2.7-6.7	3.1-7.6	3.7-8.5	4.0-9.5
		1	-	-	-	2.1-4.9	2.4-5.8	3.1-7.0	3.4-8.2	3.7-9.2	4.3-10.4	4.6-11.4
*200x100 Ac = 0.0149 m ²	All	m ³ /s	0.007	0.014	0.024	0.031	0.038	0.045	0.052	0.061	0.068	0.076
		NC				18	21	26	30	33	36	39
	2	Throw, m	-	-	1.5-3.4	1.8-4.3	2.1-5.2	2.7-6.4	3.1-7.3	3.4-8.2	3.7-9.2	4.3-10.1
		1	-	-	1.5-4.0	2.1-5.2	2.7-6.4	3.1-7.6	3.7-8.8	4.6-9.8	4.6-11.0	5.2-12.2
*250 x 100 Ac = 0.018 m ²	All	m ³ /s	0.009	0.019	0.028	0.038	0.047	0.056	0.066	0.076	0.085	0.094
		NC				16	22	27	31	34	37	40
	2	Throw, m	-	-	1.5-3.4	1.8-4.6	2.4-5.5	2.7-6.7	3.1-7.6	3.7-8.8	4.0-9.8	4.6-10.7
		1	-	-	1.8-4.3	2.4-5.5	2.7-6.7	3.4-7.9	3.7-9.2	4.3-10.4	4.9-11.6	8.8-12.8
*300 x 100 Ac = 0.024 m ²	All	m ³ /s	0.012	0.024	0.038	0.050	0.061	0.073	0.085	0.099	0.111	0.123
		NC				10	17	23	28	32	35	38
	2	Throw, m	-	0.9-2.4	1.5-3.7	2.1-4.9	2.4-6.1	3.1-7.3	3.4-8.2	4.0-9.5	4.3-10.4	4.9-11.6
		1	-	1.2-3.1	1.8-4.6	2.4-5.8	3.1-7.3	3.7-8.5	4.0-9.8	4.6-11.3	5.2-12.5	5.8-13.7
**350 x 100 Ac = 0.027 m ²	All	m ³ /s	0.014	0.028	0.043	0.057	0.071	0.085	0.099	0.113	0.127	0.142
		NC				10	18	23	28	32	36	39
	4	Throw, m	-	0.9-2.1	1.2-3.1	1.8-4.3	2.1-5.2	2.7-6.4	3.1-7.3	3.4-8.2	3.7-9.2	4.3-10.1
		3	-	0.9-2.4	1.5-3.4	1.8-4.6	2.4-5.8	2.7-6.7	3.1-7.6	3.7-8.8	4.0-9.8	4.6-10.7
2	-	0.9-2.4	1.5-4.0	2.1-5.2	2.7-6.4	3.1-7.3	3.7-8.5	4.0-9.8	4.9-11.6	4.9-11.9		
	1	-	1.2-3.1	1.8-4.6	2.4-6.1	3.1-7.6	3.7-8.8	4.3-10.4	4.9-11.6	5.5-13.1	6.1-14.3	

* Not available as 3 or 4 way.

** 3 or 4 way only available in 'S' format.

Notes on Performance Data

- All pressures are Pa-(N/m²).
- Minimum throw values refer to a terminal velocity of 0.75 m/s and maximum to 0.25 m/s, with a cooling temperature differential of 12°C. The throw may be increased, or decreased 20%, by changing the vane setting.
- The NC values are based on a room absorption of 8dB, re 10⁻¹² watts.
- Data is based on an opening of about 3 mm between the frame and the first vane and progressively wider spacings between vanes away from the frame. This setting will cause the air to be discharged parallel to the face of the diffuser (horizontal discharge if installed in ceiling).
- If the vanes are adjusted to the full open position, the listed NC values will be reduced by 7 and the total pressure will be 0.30 times that shown in the tables.

Size mm	Pattern	Core. Vel. m/s	0.51	1.02	1.53	2.04	2.55	3.06	3.57	4.08	4.59	5.10	
		Vel. Press.	0	1	1	3	4	6	8	10	13	16	
		Tot. Press.	1	4	8	14	23	33	44	57	73	89	
**400 x 100 *250 x 150 *200 x 200 Ac = 0.032 m ²	All	m ³ /s	0.017	0.033	0.050	0.066	0.083	0.099	0.116	0.132	0.149	0.165	
		NC			11	18	24	29	33	37	39	42	
	4 3 2 1	Throw, m			0.9-2.1	1.5-3.4	1.8-4.6	2.4-5.5	2.7-6.4	3.1-7.6	3.7-8.5	4.0-9.5	4.3-10.4
					0.9-2.4	1.5-3.7	1.8-4.6	2.4-5.8	3.1-7.0	3.4-7.9	4.3-9.2	4.3-10.1	4.6-11.6
					1.2-2.7	1.5-4.0	2.1-5.2	2.7-6.4	3.1-7.6	3.7-8.8	4.3-10.1	4.6-11.3	5.2-12.5
**450 x 100 **300 x 150 Ac = 0.037 m ²	All	m ³ /s	0.019	0.038	0.057	0.076	0.094	0.113	0.132	0.151	0.170	0.189	
		NC			12	19	25	30	34	37	40	43	
	4 3 2 1	Throw, m			0.9-2.4	1.5-3.4	1.8-4.6	2.4-5.8	2.7-6.7	3.4-7.9	3.7-8.8	4.0-9.8	4.6-10.7
					0.9-2.4	1.5-3.7	2.1-4.9	2.4-6.1	3.1-7.3	3.4-8.2	4.0-9.5	4.6-10.7	4.9-11.6
					1.2-2.7	1.8-4.3	2.4-5.5	2.7-6.7	3.4-7.9	3.7-9.2	4.3-10.4	4.9-11.6	5.5-12.8
**500 x 100 *350 x 150 *250 x 200 Ac = 0.041 m ²	All	m ³ /s	0.021	0.043	0.064	0.085	0.106	0.127	0.149	0.167	0.191	0.212	
		NC			12	19	26	30	34	38	41	44	
	4 3 2 1	Throw, m			0.9-2.4	1.5-3.7	1.8-4.6	2.4-5.8	3.1-7.0	3.4-7.9	3.7-9.2	4.3-10.1	4.6-11.3
					0.9-2.4	1.5-4.0	2.1-5.2	2.4-6.4	3.1-7.3	3.7-8.5	4.0-9.8	4.6-11.0	4.9-11.9
					1.2-2.7	1.8-4.3	2.4-5.8	3.1-7.0	3.4-8.2	4.0-9.5	4.6-10.7	4.9-11.9	5.5-13.4
**600 x 100 **400 x 150 *300 x 200 Ac = 0.051 m ²	All	m ³ /s	0.026	0.052	0.078	0.104	0.130	0.156	0.182	0.208	0.234	0.260	
		NC			13	20	26	31	35	39	41	44	
	4 3 2 1	Throw, m			0.6-1.2	0.9-2.4	1.5-3.7	2.1-4.9	2.4-6.1	3.1-7.3	3.7-8.5	4.0-9.5	4.6-10.7
					0.6-1.5	1.2-2.7	1.5-4.0	2.4-5.5	2.7-6.7	3.4-7.9	3.7-9.2	4.3-10.1	4.9-11.6
					0.6-1.5	1.2-3.1	1.8-4.6	2.4-6.1	3.1-7.3	3.7-8.8	4.3-10.1	4.6-11.3	5.2-12.5
**450 x 150 *250 x 250 Ac = 0.057 m ²	All	m ³ /s	0.028	0.059	0.087	0.118	0.146	0.175	0.205	0.234	0.264	0.293	
		NC			13	21	27	32	36	39	42	45	
	4 3 2 1	Throw, m			0.6-1.2	1.2-2.7	1.5-4.0	2.1-5.2	2.7-6.4	3.1-7.6	3.7-8.5	4.0-9.8	4.6-11.0
					0.6-1.5	1.2-2.7	1.8-4.3	2.4-5.5	2.7-6.7	3.4-8.2	4.0-9.5	5.3-10.4	4.9-11.9
					0.6-1.5	1.2-3.1	1.8-4.6	2.4-6.1	3.1-7.6	3.7-8.8	4.3-10.4	4.9-11.6	5.5-13.1
**750 x 100 **500 x 150 *350 x 200 Ac = 0.065 m ²	All	m ³ /s	0.033	0.066	0.099	0.132	0.165	0.198	0.231	0.264	0.297	0.332	
		NC			14	21	27	32	36	40	42	45	
	4 3 2 1	Throw, m			0.6-1.5	1.2-2.7	1.5-4.0	2.1-5.2	2.7-6.4	3.1-7.6	3.7-8.8	4.3-10.1	4.6-11.3
					0.6-1.5	1.2-2.7	1.8-4.3	2.4-5.8	3.1-7.0	3.4-8.2	4.0-9.8	4.6-11.0	5.2-12.2
					0.6-1.8	1.5-3.4	2.1-4.9	2.7-6.4	3.1-7.6	3.7-9.2	4.6-10.7	5.2-12.2	5.5-13.4
**600 x 150 **400 x 200 **350 x 250 Ac = 0.075 m ²	All	m ³ /s	0.038	0.076	0.116	0.153	0.191	0.229	0.267	0.307	0.345	0.382	
		NC			15	22	28	33	37	40	43	46	
	4 3 2 1	Throw, m			0.6-1.5	1.2-2.7	1.8-4.3	2.4-5.5	2.7-6.7	3.4-7.9	3.7-9.2	4.3-10.4	4.9-11.6
					0.6-1.5	1.2-2.7	1.8-4.3	2.4-5.5	2.7-7.6	3.4-7.9	3.7-9.2	4.3-10.4	4.9-11.6
					0.6-1.8	1.5-3.4	2.1-4.9	2.7-6.7	3.4-7.9	4.0-9.5	4.6-11.0	5.2-12.5	5.8-14.0
**450 x 200 *300 x 300 Ac = 0.080 m ²	All	m ³ /s	0.040	0.083	0.123	0.165	0.205	0.245	0.288	0.328	0.371	0.411	
		NC			15	22	28	33	37	40	43	46	
	4 3 2 1	Throw, m			0.6-1.5	1.2-3.1	1.8-4.3	2.4-5.8	3.1-7.0	3.4-8.2	4.0-9.5	4.6-10.7	4.9-11.9
					0.6-1.5	1.2-3.1	1.8-4.6	2.4-6.1	3.1-7.6	3.7-8.8	4.3-10.1	4.9-11.6	5.5-12.8
					0.6-1.8	1.5-3.4	2.1-5.2	2.7-6.7	3.4-8.2	4.0-9.8	4.6-11.3	5.5-12.8	6.1-14.3

* Not available as 3 or 4 way.

** 3 or 4 way only available in 'S' format.

EL – Performance Data

Size mm	Pattern	Core. Vel. m/s	0.51	1.02	1.53	2.04	2.55	3.06	3.57	4.08	4.59	5.10
		Vel. Press.	0	1	1	3	4	6	8	10	13	16
		Tot. Press.	1	4	8	14	23	33	44	57	73	89
**750 x 150	All	m ³ /s	0.047	0.097	0.144	0.194	0.241	0.288	0.338	0.395	0.434	0.481
**500 x 200		NC			16	23	29	34	38	41	44	47
**400 x 250	4		0.6-1.5	1.2-3.1	1.8-4.6	2.4-5.8	3.1-7.3	3.7-8.5	4.0-9.8	4.6-11.0	5.2-12.5	5.8-13.7
**350 x 300	3	Throw, m	0.6-1.8	1.2-3.1	2.1-4.9	2.7-6.4	3.1-7.6	3.7-9.2	4.6-10.7	4.9-11.9	5.5-13.4	6.1-14.6
	2		0.6-1.8	1.5-3.7	2.1-5.2	3.1-7.0	3.7-8.5	4.3-10.1	4.9-11.9	5.5-13.1	6.1-14.9	7.0-16.8
Ac = 0.094 m ²	1		0.9-2.1	1.8-4.3	2.7-6.4	3.4-8.2	4.3-10.4	5.2-12.2	5.8-14.0	6.7-15.9	7.6-18.0	8.2-19.8
**600 x 200	All	m ³ /s	0.054	0.109	0.163	0.217	0.271	0.326	0.380	0.434	0.491	0.543
**450 x 250		NC			16	24	30	34	38	42	45	48
**400 x 300	4		0.6-1.5	1.2-3.1	1.8-4.6	2.4-6.1	3.1-7.6	3.7-8.8	4.3-10.1	4.9-11.6	5.5-12.8	5.8-14.0
Ac = 0.107 m ²	3	Throw, m	0.6-1.8	1.5-3.4	2.1-4.9	2.7-6.4	3.4-7.9	4.0-9.5	4.6-11.0	5.2-12.5	5.8-13.7	6.4-15.3
	2		0.6-1.8	1.5-3.7	2.4-5.5	3.1-7.0	3.7-8.8	4.3-10.4	5.2-12.2	5.8-13.7	6.4-15.3	7.0-17.1
	1		0.9-2.4	1.8-4.6	2.7-6.7	3.7-8.5	4.6-10.7	5.2-12.5	6.1-14.3	6.7-16.5	7.6-18.3	8.5-20.7
**900 x 150	All	m ³ /s	0.059	0.118	0.177	0.236	0.295	0.354	0.413	0.472	0.529	0.592
**500 x 250		NC			16	24	30	35	39	42	45	48
350 x 350	4		0.6-1.5	1.2-3.1	1.8-4.6	2.4-6.1	3.1-7.6	3.7-8.8	4.3-10.4	4.9-11.6	5.5-13.1	6.1-14.3
Ac = 0.116 m ²	3	Throw, m	0.6-1.8	1.5-3.4	2.1-4.9	2.7-6.7	3.4-8.2	4.0-9.8	4.6-11.3	5.2-12.5	5.8-14.0	6.4-15.6
	2		0.6-1.8	1.5-3.7	2.4-5.5	3.1-7.3	3.7-9.2	4.6-10.7	5.2-12.5	5.8-14.0	6.4-15.6	7.3-17.4
	1		0.9-2.4	1.8-4.6	2.7-6.7	3.7-8.8	4.6-10.7	5.5-12.8	6.1-14.6	7.0-16.8	7.9-18.9	8.8-21.0
400 x 300	All	m ³ /s	0.064	0.127	0.191	0.255	0.319	0.382	0.446	0.510	0.576	0.637
450 x 300		NC			17	24	30	35	39	42	45	48
Ac = 0.125 m ²	4		0.6-1.8	1.2-3.1	2.1-4.9	2.7-6.4	3.1-7.6	3.7-9.2	4.6-10.7	4.9-11.9	5.5-13.4	6.1-14.6
	3	Throw, m	0.6-1.8	1.5-3.4	2.1-5.2	2.7-6.7	3.4-8.2	4.0-9.8	4.6-11.3	5.5-12.8	6.1-14.3	6.7-15.9
	2		0.9-2.1	1.5-4.0	2.4-5.8	3.1-7.6	3.7-9.2	4.6-11.0	5.5-12.8	6.1-14.3	6.7-16.2	7.6-18.0
	1		0.9-2.4	1.8-4.6	3.1-7.0	3.7-8.8	4.6-11.0	5.5-13.1	6.4-15.3	7.0-17.1	7.9-19.2	8.8-21.4
**750 x 200	All	m ³ /s	0.073	0.144	0.217	0.288	0.361	0.434	0.505	0.576	0.651	0.722
**600 x 250		NC			17	25	31	36	40	43	46	49
500 x 300	4		0.6-1.8	1.5-3.4	2.1-4.9	2.7-6.4	3.4-7.9	4.0-9.5	4.6-11.0	5.2-12.2	5.8-13.7	6.4-15.3
450 x 350	3	Throw, m	0.6-1.8	1.5-3.7	2.1-5.2	3.1-7.0	3.7-8.5	4.3-10.1	4.9-11.9	5.5-13.4	6.1-14.9	6.7-16.5
400 x 400	2		0.9-2.1	1.5-4.0	2.4-5.8	3.1-7.6	4.0-9.8	4.6-11.3	5.5-13.0	6.1-14.6	7.0-16.8	7.6-18.3
Ac = 0.142 m ²	1		0.9-2.4	2.1-4.9	3.1-7.0	3.7-9.2	4.6-11.3	5.5-13.4	6.4-15.6	7.3-17.7	8.2-19.8	9.2-22.3
**900 x 200	All	m ³ /s	0.086	0.172	0.257	0.345	0.430	0.515	0.599	0.689	0.774	0.859
**750 x 250		NC			18	26	32	36	40	44	47	50
600 x 300	4		0.6-1.8	1.5-3.4	2.1-5.2	2.7-6.7	3.4-8.2	4.0-9.8	4.6-11.3	5.5-12.8	6.1-14.3	6.7-16.2
500 x 350	3	Throw, m	0.6-1.8	1.5-3.7	2.4-5.5	3.1-7.3	3.7-8.8	4.6-10.7	5.2-12.2	5.8-13.7	6.4-15.6	7.3-17.4
450 x 400	2		0.9-2.1	1.8-4.3	2.4-6.1	3.4-8.2	4.3-10.1	4.9-11.9	5.8-13.7	6.4-15.3	7.3-17.4	7.9-19.2
Ac = 0.169 m ²	1		0.9-2.4	2.1-4.9	3.1-7.3	4.0-9.8	4.9-11.9	5.8-14.0	6.7-16.5	7.6-18.3	8.5-20.7	9.8-23.2
600 x 350	All	m ³ /s	0.099	0.198	0.297	0.397	0.496	0.595	0.694	0.793	0.892	0.991
500 x 400		NC			19	26	32	37	41	44	47	50
450 x 450	4		0.6-1.8	1.5-3.7	2.4-5.5	3.1-7.0	3.7-8.5	4.3-10.4	4.9-11.9	5.5-13.4	6.1-14.9	7.0-16.8
Ac = 0.195 m ²	3	Throw, m	0.9-2.1	1.5-4.0	2.4-5.8	3.1-7.6	3.7-9.2	4.6-11.0	5.5-12.8	6.1-14.3	6.7-16.2	7.6-18.0
	2		0.9-2.1	1.8-4.3	2.7-6.4	3.7-8.5	4.3-10.4	5.2-12.2	5.8-14.0	6.7-15.9	7.6-18.0	8.5-20.1
	1		1.2-2.7	2.1-5.2	3.1-7.6	4.3-10.1	5.2-12.2	6.1-14.6	7.0-16.8	7.9-18.9	8.8-21.4	10.1-24.4
**900 x 250	All	m ³ /s	0.111	0.222	0.333	0.444	0.557	0.666	0.774	0.887	1.000	1.112
750 x 300		NC			19	27	33	37	41	45	48	51
600 x 400	4		0.6-1.8	1.5-3.7	2.4-5.5	3.1-7.3	3.7-8.8	4.6-10.7	5.2-12.2	5.8-13.7	6.4-15.3	7.3-17.4
500 x 450	3	Throw, m	0.9-2.1	1.5-4.0	2.4-6.1	3.1-7.6	4.0-9.5	4.6-11.3	5.5-13.1	6.1-14.9	7.0-16.8	7.6-18.3
Ac = 0.218 m ²	2		0.9-2.4	1.8-4.6	2.7-6.7	3.7-8.5	4.6-10.7	5.5-12.8	6.1-14.6	6.7-16.5	7.6-18.6	8.5-20.7
	1		1.2-2.7	2.1-5.2	3.4-7.9	4.3-10.4	5.5-12.8	6.1-14.9	7.3-17.4	8.2-19.5	9.2-22.0	10.4-25.0

** 3 or 4 way only available in 'S' format.

Size mm	Pattern	Core. Vel. m/s	0.51	1.02	1.53	2.04	2.55	3.06	3.57	4.08	4.59	5.10
		Vel. Press.	0	1	1	3	4	6	8	10	13	16
		Tot. Press.	1	4	8	14	23	33	44	57	73	89
900 x 300 750 x 350	All	m ³ /s	0.127	0.253	0.381	0.505	0.633	0.762	0.887	1.016	1.143	1.270
		NC			20	27	33	38	42	45	48	51
600 x 450	4		0.9-2.1	1.5-4.0	2.4-5.8	3.1-7.6	3.7-9.2	4.6-11.0	5.5-12.8	6.1-14.3	6.7-15.9	7.6-18.0
500 x 500	3	Throw, m	0.9-2.1	1.8-4.3	2.4-6.1	3.4-7.9	4.3-10.1	4.9-11.9	5.8-13.7	6.4-15.3	7.3-17.4	7.9-19.2
	2		0.9-2.4	1.8-4.6	2.7-6.7	3.7-8.8	4.6-11.0	6.1-14.6	6.1-14.9	7.0-17.1	7.9-18.9	8.8-21.4
Ac = 0.249 m ²	1		1.2-2.7	2.4-5.5	3.4-8.2	4.6-10.7	5.5-13.1	6.4-15.6	7.6-18.0	8.5-20.1	9.5-22.9	10.7-25.9
900 x 350 750 x 400	All	m ³ /s	0.149	0.297	0.446	0.595	0.746	0.892	1.046	1.195	1.345	1.494
		NC		10	20	28	34	39	43	46	49	52
600 x 500	4		0.9-2.1	1.5-4.0	2.4-5.8	3.4-7.9	4.0-9.5	4.6-11.3	5.5-13.1	6.1-14.9	7.0-16.8	7.9-18.9
Ac = 0.293 m ²	3	Throw, m	0.9-2.1	1.8-4.3	2.7-6.4	3.4-8.2	4.3-10.4	5.2-12.2	5.8-14.0	6.7-15.9	7.6-18.0	8.5-20.1
	2		0.9-2.4	2.1-4.9	3.1-7.3	3.7-9.2	4.9-11.6	5.8-13.7	6.4-15.6	7.3-17.7	8.2-19.8	9.2-22.3
1		1.2-3.1	2.4-5.8	3.7-8.5	4.6-11.0	5.8-13.7	6.7-16.2	7.9-18.9	8.8-21.0	10.1-24.1	11.3-27.2	
900 x 400 750 x 450	All	m ³ /s	0.172	0.345	0.519	0.689	0.859	1.037	1.210	1.383	1.556	1.729
		NC		11	21	29	35	39	43	47	50	53
600 x 600	4		0.9-2.1	1.8-4.3	2.4-6.1	3.4-8.2	4.3-10.1	4.9-11.9	5.8-13.7	6.4-15.3	7.3-17.4	8.2-19.5
Ac = 0.339 m ²	3	Throw, m	0.9-2.4	1.8-4.6	2.7-6.7	3.7-8.5	4.6-10.7	5.5-12.8	6.1-14.6	7.0-16.8	7.6-18.6	8.5-20.7
	2		0.9-2.4	2.1-4.9	3.1-7.3	4.0-9.8	4.9-11.9	5.8-14.0	6.7-16.5	7.6-18.3	8.5-20.7	9.8-23.2
1		1.2-3.1	2.4-6.1	3.7-8.8	4.6-11.3	5.8-14.0	7.0-16.8	8.2-19.5	9.2-22.0	10.4-25.0	11.6-28.1	
900 x 450 750 x 500	All	m ³ /s	0.191	0.382	0.576	0.765	0.953	1.151	1.342	1.534	1.726	1.918
		NC		11	22	29	35	40	44	47	50	53
600 x 600	4		0.9-2.1	1.8-4.3	2.7-6.4	3.4-8.2	4.3-10.4	5.2-12.2	5.8-14.0	6.7-15.9	7.6-18.0	8.5-20.1
Ac = 0.376 m ²	3	Throw, m	0.9-2.4	1.8-4.6	2.7-6.7	3.7-8.8	4.6-11.0	5.5-13.1	6.1-14.9	7.0-17.1	7.9-19.2	8.8-21.4
	2		1.2-2.7	2.1-5.2	3.1-7.6	4.0-9.8	5.2-12.2	6.1-14.3	7.0-16.8	7.9-18.9	8.8-21.4	10.1-24.1
1		1.2-3.1	2.4-6.1	3.7-9.2	4.9-11.9	6.1-14.3	7.3-17.4	8.5-20.1	9.5-22.6	10.7-25.6	11.9-28.7	
900 x 500 750 x 600	All	m ³ /s	0.222	0.446	0.670	0.892	1.117	1.340	1.564	1.787	2.010	2.234
		NC		12	22	30	36	40	44	48	46	54
600 x 600	4		0.9-2.4	1.8-4.6	2.7-6.7	3.7-8.5	4.6-10.7	5.5-12.8	6.1-14.6	6.7-16.5	7.6-18.6	8.5-20.7
Ac = 0.438 m ²	3	Throw, m	0.9-2.4	2.1-4.9	3.1-7.0	3.7-9.2	4.9-11.6	5.8-13.7	6.7-15.9	7.3-17.7	8.5-20.1	9.5-22.6
	2		1.6-2.7	2.4-5.2	3.4-7.9	4.3-10.4	5.5-12.8	6.1-14.9	7.3-17.4	8.2-19.5	9.2-22.3	10.4-25.0
1		1.5-3.4	2.7-6.4	4.0-9.5	5.2-12.2	6.1-14.9	7.6-18.0	8.5-20.7	9.8-23.8	11.3-26.8	12.5-29.9	
900 x 600 750 x 750	All	m ³ /s	0.274	0.548	0.826	1.104	1.379	1.655	1.931	2.207	2.483	2.759
		NC		13	23	31	37	41	45	49	52	55
600 x 600	4		0.9-2.4	1.8-4.6	3.1-7.0	3.7-9.2	4.6-11.3	5.5-13.4	6.4-15.6	7.3-17.4	8.2-19.5	9.2-22.0
Ac = 0.541 m ²	3	Throw, m	1.2-2.7	2.1-4.9	3.1-7.6	4.0-9.8	5.2-12.2	6.1-14.3	7.0-16.8	7.6-18.6	8.8-21.4	9.8-23.8
	2		1.2-2.7	2.4-5.5	3.4-8.2	4.6-10.7	5.5-13.4	6.7-15.9	7.6-18.3	8.5-20.7	9.8-23.5	11.0-26.5
1		1.5-3.4	2.7-6.7	4.0-9.8	5.5-12.8	6.7-15.9	7.9-18.9	9.2-22.0	10.4-25.0	11.9-28.4	13.4-32.0	
900 x 750	All	m ³ /s	0.338	0.675	1.020	1.360	1.698	2.038	2.378	2.717	3.057	3.396
		NC		14	24	31	37	42	46	50	53	56
600 x 600	4		0.9-2.4	2.1-4.9	3.1-7.3	4.0-9.8	4.9-11.9	5.8-14.0	6.7-16.5	7.6-18.3	8.5-20.7	9.8-23.2
Ac = 0.666 m ²	3	Throw, m	1.6-2.7	2.1-5.2	3.4-7.9	4.3-10.4	5.5-12.8	6.4-15.3	7.3-17.4	8.2-19.8	9.2-22.3	10.4-25.0
	2		1.6-3.1	2.4-6.1	3.7-8.8	4.6-11.3	5.8-14.0	7.0-16.8	8.2-19.5	9.2-22.0	10.4-25.0	11.6-28.1
1		1.5-3.7	3.1-7.0	4.3-10.4	5.5-13.4	7.0-16.8	8.5-20.1	9.8-23.5	11.0-26.5	12.5-29.9	14.0-33.6	
900 x 900	All	m ³ /s	0.408	0.817	1.227	1.636	2.045	2.454	2.863	3.272	3.681	4.090
		NC		14	25	32	38	43	47	51	53	56
600 x 600	4		1.2-2.7	2.1-5.2	3.1-7.6	4.3-10.1	5.2-12.5	6.1-14.9	7.0-17.1	8.2-19.5	9.2-21.7	10.1-24.4
Ac = 0.802 m ²	3	Throw, m	1.2-3.1	2.4-5.5	3.4-8.2	4.6-10.7	5.5-13.4	6.7-15.9	7.6-18.3	8.5-20.7	9.8-23.5	11.0-26.5
	2		1.2-3.1	2.4-6.1	3.7-9.2	4.9-11.9	6.1-14.6	7.3-17.7	8.5-20.4	9.8-23.2	11.0-26.2	12.2-29.3
1		1.5-4.0	3.1-7.3	4.6-11.0	5.8-14.0	7.3-17.7	8.8-21.4	10.1-24.4	11.6-27.8	13.1-31.4	14.6-35.4	

BHC, DFR, DS & JD

Product Ordering Key and Suggested Specifications

BHC	–	SIZE	–	OPTIONS	–	FINISH
High Capacity Barrel Diffuser		635 x 300 or 1270 x 300		24 V AC or, 230 V AC Actuators / Thermal Power Pill		Mill Aluminium Anodized Aluminium Holyoake White Powder Coat

High Capacity Barrel Diffusers shall be Holyoake Series BHC. They shall be designed to be mounted into a supply plenum that may contain a number of BHC units, which will provide high capacity and long throw diffusion. Adjustment is available to change the vertical and horizontal throw and spread.

Series BHC shall be finished in Mill Aluminium and fitted with accessories where indicated.

All shall be as manufactured by Holyoake.

DFR	–	FINISH
Displacement Floor Mounted Round Diffuser		Black Holyoake White Powder Coat

Displacement Floor Mounted Round Diffusers shall be Holyoake Series DFR. They shall be designed to mount into a supply plenum at floor level and to provide an even distribution of air flow at low velocity, thereby creating a draft-less environment. Pressure drop through the displacement diffusers will be such to provide balance within the supply plenum, while being low enough to generate very low noise levels.

Series DFR Displacement Diffusers shall be circular.

All shall be as manufactured by Holyoake.

DS	–	W x H	–	FLANGE	–	OPTION	–	FINISH
Displacement Step Mounted Diffuser		Hole Size		17mm 25mm		RC Removable Core (25 mm flange only).		Powder Coat Mill Aluminium

Displacement Step Mounted Diffusers shall be Holyoake Series DS. They shall be designed to mount into a supply plenum at floor level and to provide an even distribution of air flow at low velocity, thereby creating a draft-less environment. Pressure drop through the displacement diffusers will be such to provide balance within the supply plenum, while being low enough to generate very low noise levels.

Series DS Displacement Step Mounted Diffusers are designed to be face fixed, or supplied with the Holyoake Removable Core System (25 mm flange only).

All shall be as manufactured by Holyoake.

JD	–	250	–	OPTIONS	–	FINISH
Jet Diffusers		Nominal Size		Mounting Plate (Type 1, 2, 3 or 4)		Holyoake White Mill Aluminium Powder Coat

Circular Jet Diffusers shall be Holyoake Model JD constructed from spun aluminium cones. JD Jet Diffusers shall be capable of operating in either diffused, or jet air pattern configurations. The air patterns shall be achieved by rotating the cone assembly through 180 degrees. JD Jet Diffusers shall be complete with a mounting system suitable for wall, or ceiling applications.

Series JD shall be finished in powder coat and fitted with accessories where indicated.

All shall be as manufactured by Holyoake.

Note

For ceiling applications of JD Diffusers, Seismic Restraints would be required, but not supplied.

JND, EL, EL-P, FSD & TLC-EL

Product Ordering Key and Suggested Specifications

JND	-	SIZE	-	FINISH	<p>Holyoake Jet nozzle diffusers shall be of spun aluminium construction with a steel concealed mounting system. They shall be designed to supply large air quantities over large throws.</p> <p>Series JND shall be finished in powder coat and all shall be as manufactured by Holyoake.</p>
Jet Nozzle Diffuser		160, 200, 250, 360, 400		Powder coat white, special colours available on request	

FSD	OPTIONS	<p>Circular floor diffusers shall be Holyoake FSD Series manufactured in glass filled polycarbonate, in self-coloured grey, or black, as standard. Nominal FSD diffuser size shall be 220mm in diameter. The FSD diffuser shall contain a flow regulation damper and the fascia is complete with 'Min/Max' indication.</p> <p>Series FSD mounting clamp and trim ring shall also be manufactured in glass filled polycarbonate. FSD diffusers shall contain a dust/dirt collection basket.</p> <p>All Series FSD materials used are fire retardant and the diffusers shall resist permanent deformation when subject to point loads up to 500 Kg.</p> <p>All shall be as manufactured by Holyoake.</p>
Floor Swirl Diffuser	Die Cast Aluminium Mill Finish, or, Die Cast Aluminium Powder Coat Finish	

EL	-	2	-	S	-	300 x 300	-	ACCESSORIES	-	OPTIONS	-	FINISH	<p>Surface Mounted Eyelash Type</p> <p>EL surface mounted diffusers shall be of the "Eyelash", or curved blade type. They shall be of extruded aluminium construction, with each blade individually adjustable from the face. Optional opposed blade damper can be adjusted through the face of the diffuser.</p> <p>All shall be as manufactured by Holyoake</p>
Series "Eyelash"		Core Model		Style		Duct Size		OBD-1 Opposed Blade damper		RC 25 RC 50 CMF Removable Core Frame Option		Holyoake White Mill Aluminium Powder Coat	

EL	-	P	-	2	-	S	-	300 x 150 - 600 x 600	-	ACCESSORIES	-	FINISH	<p>Panel Lay-in Eyelash Type</p> <p>EL-P Panel Lay-in diffusers shall be of the "Eyelash", or curved blade type. They shall be of extruded aluminium construction, with each blade individually adjustable from the face. Optional opposed blade damper can be adjusted through the face of the diffuser.</p> <p>All shall be as manufactured by Holyoake.</p>	
Series "Eyelash"		Panel Lay-in Model		Core Model		Style		Duct Size		Module Size		OBD-1 Opposed Blade damper		Holyoake White Mill Aluminium Powder Coat

TLC-EL	-	2	-	L	-	400 x 150	-	ACCESSORIES	-	FINISH	<p>Curved Frame Eyelash Type</p> <p>TLC-EL diffusers shall be of the "Curved Frame Eyelash" type, with curved blades. They shall be of extruded aluminium construction, with each blade adjustable from the face. Optional opposed blade damper can be adjusted through the face of the diffuser.</p> <p>All shall be as manufactured by Holyoake.</p>
Series Curved Frame "Eyelash"		Core Model		Style		Nominal Duct Size		OBD-1 Opposed Blade damper		Holyoake White Mill Aluminium Powder Coat	

Note

For ceiling applications of EL Diffusers, Seismic Restraints would be required, but not supplied.