briteair

# Swirl Diffuser Type SSW-HC



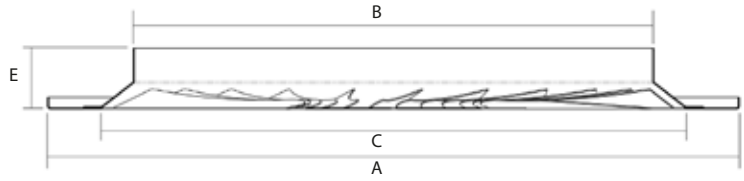


**Suitable for ceiling mounting and can be manufactured to suit most ceiling tile arrangements.**

The High Capacity Swirl Diffusers allows high air volumes to be used whilst still having all the performance benefits of rapid decay of both supply air velocities and temperatures.

## *Multiple Variations*

### *SSW-12-HC-L*



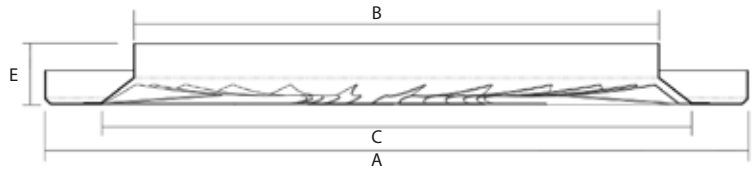

| Nom Size | A | BØ | CØ | E |
|---|---|---|---|---|
| **160** | **595** | 157 | 210 | 55 |
| **250** | **595** | 247 | 300 | 55 |
| **350** | **595** | 350 | 400 | 55 |
| **450** | **595** | 447 | 500 | 55 |

### *SSW-12-HC-T*



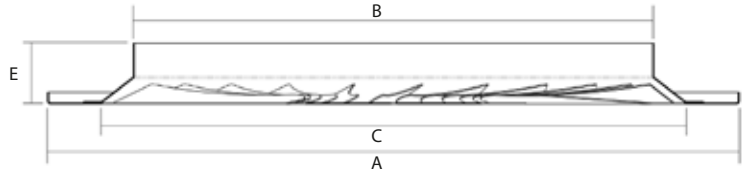

| Nom Size | A | BØ | CØ | D 24T/15T | E |
|---|---|---|---|---|---|
| **160** | **595** | 157 | 210 | 574/584 | 55 |
| **250** | **595** | 247 | 300 | 574/584 | 55 |
| **350** | **595** | 350 | 400 | 574/584 | 55 |
| **450** | **595** | 447 | 500 | 574/584 | 55 |

### *SSW-12-HC-M*




| Nom Size | A | BØ | CØ | E |
|---|---|---|---|---|
| **160** | **595** | 157 | 210 | 55 |
| **250** | **595** | 247 | 300 | 55 |
| **350** | **595** | 350 | 400 | 55 |
| **450** | **595** | 447 | 500 | 55 |

### *SSW-12-HC-C*




| Nom Size | AØ | BØ | CØ | E |
|---|---|---|---|---|
| **160** | **198** | 157 | 210 | 55 |
| **250** | **298** | 247 | 300 | 55 |
| **350** | **480** | 347 | 400 | 55 |
| **450** | **590** | 447 | 500 | 55 |

*Please contact our **Sales Office on 01924 444 174** for selection guidance on the above.*

briteair SYSTEMS LTD

**Briteair Systems Ltd**
Unit 2, Norquest Ind Park, Pennine View, Birstall, West Yorkshire WF17 9NE

Tel: 01924 444 174 | Fax: 01924 476 600 | www.briteair.co.uk

# Swirl Diffuser Type SSW-HC



## How to Order

| Type | No of Blades | Edge Detail | Tegular Depth | Size | Overall Size | RAL Colour |
|---|---|---|---|---|---|---|
| SSW - HC | 12 | L - Lay-In Grid<br>T15 - Tegular 584 x 584<br>T24 - Tegular 574 x 574 | e.g. 14mm | 450 | 595 x 595<br>599 x 599 | e.g. RAL 9010 |
| | | M - Clip-In Metal Tile<br>C - Circular | | | 590 Dia | |

**e.g.** 10 No SSW - HC - 12 - L - 450 - 595 x 595 - RAL 9010

## SSW - HC - 12 - L Swirl Diffusers: Performance Data

| SIZE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 160 Dia | Air Volume l/s | 20 | 25 | 30 | 35 | 40 | 50 | 60 | 70 |
| | Throw m | 0.5 - 1.0 | 0.6 - 1.3 | 0.8 - 1.6 | 0.8 - 1.8 | 1.0 - 2.1 | 1.2 - 2.6 | 1.5 - 3.1 | 1.9 - 3.9 |
| | Pa | 7 | 11 | 15 | 21 | 27 | 42 | 61 | 83 |
| | NC | <20 | <20 | <20 | 21 | 24 | 31 | 36 | 40 |

| SIZE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 250 Dia | Air Volume l/s | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| | Throw m | 0.6 - 1.2 | 0.7 - 1.5 | 0.9 - 1.8 | 1.0 - 2.1 | 1.2 - 2.4 | 1.2 - 2.6 | 1.4 - 2.9 | 1.5 - 3.2 |
| | Pa | 5 | 8 | 12 | 17 | 22 | 27 | 34 | 41 |
| | NC | <20 | <20 | <20 | <20 | <20 | 22 | 25 | 28 |

| SIZE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 350 Dia | Air Volume l/s | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 |
| | Throw m | 0.8 - 1.6 | 0.9 - 1.9 | 1.0 - 2.0 | 1.1 - 2.1 | 1.2 - 2.4 | 1.3 - 2.7 | 1.4 - 2.9 | 1.5 - 3.0 |
| | Pa | 7 | 8 | 10 | 13 | 15 | 18 | 20 | 23 |
| | NC | <20 | <20 | <20 | <20 | <20 | <20 | <20 | 21 |
| | Air Volume l/s | 170 | 180 | 200 | 210 | 220 | 230 | 240 | 250 |
| | Throw m | 1.7 - 3.5 | 1.8 - 3.7 | 2.0 - 4.2 | 2.1 - 4.4 | 2.2 - 4.6 | 2.3 - 4.8 | 2.4 - 4.9 | 2.5 - 5.2 |
| | Pa | 30 | 34 | 41 | 46 | 50 | 55 | 60 | 65 |
| | NC | 24 | 26 | 29 | 30 | 31 | 33 | 34 | 35 |

| SIZE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 450 Dia | Air Volume l/s | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 375 |
| | Throw m | 1.3 - 2.7 | 1.5 - 3.1 | 1.6 - 3.4 | 1.9 - 3.8 | 2.0 - 4.1 | 2.2 - 4.5 | 2.4 - 4.8 | 2.5 - 5.1 |
| | Pa | 5 | 7 | 9 | 10 | 12 | 14 | 17 | 19 |
| | NC | <20 | <20 | <20 | <20 | 21 | 23 | 26 | 27 |
| | Air Volume l/s | 400 | 425 | 450 | 475 | 500 | 525 | 550 | 575 |
| | Throw m | 2.7 - 5.5 | 2.9 - 5.8 | 3.0 - 6.2 | 3.2 - 6.5 | 3.4 - 6.9 | 3.6 - 7.2 | 3.7 - 7.5 | 4.0 - 7.9 |
| | Pa | 22 | 25 | 28 | 31 | 34 | 38 | 41 | 45 |
| | NC | 29 | 31 | 33 | 34 | 36 | 37 | 38 | 40 |

| SIZE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 500 Dia | Air Volume l/s | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 375 |
| | Throw m | 1.0 - 2.2 | 1.1 - 2.4 | 1.3 - 2.7 | 1.4 - 3.0 | 1.7 - 3.3 | 1.7 - 3.5 | 2.0 - 3.8 | 2.0 - 4.1 |
| | Pa | 4 | 6 | 7 | 8 | 10 | 12 | 13 | 15 |
| | NC | <20 | <20 | <20 | <20 | <20 | <20 | 22 | 23 |
| | Air Volume l/s | 400 | 425 | 450 | 475 | 500 | 525 | 550 | 575 |
| | Throw m | 2.1 - 4.3 | 2.2 - 4.6 | 2.5 - 4.9 | 2.6 - 5.1 | 2.7 - 5.4 | 2.8 - 5.7 | 3.0 - 6.0 | 3.2 - 6.2 |
| | Pa | 18 | 20 | 22 | 25 | 28 | 30 | 33 | 36 |
| | NC | 25 | 27 | 29 | 30 | 32 | 33 | 34 | 36 |

**For Return Air:** Multiply the Pressure Drop by 0.75 • Noise Levels remain the same

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