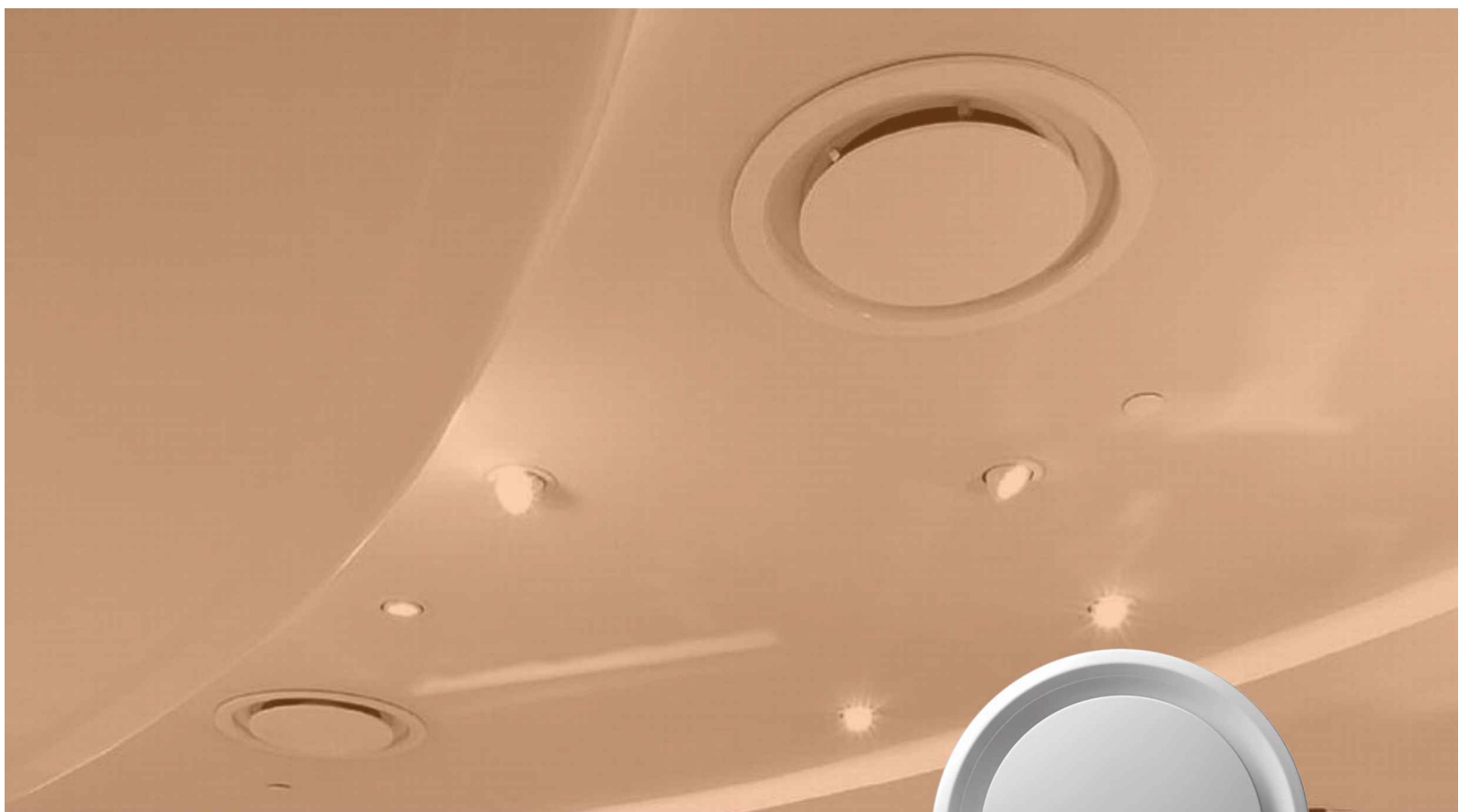


ROUND CEILING DIFFUSER



Model:
SRD 1

ROUND CEILING DIFFUSER (1-CONE)



TYPICAL APPLICATION

Round ceiling diffusers are one of the industry standard supply air grilles.

The product is designed to supply large volumes of air in a stable horizontal air pattern that is close to the ceiling and without uncomfortable draft.

With high aesthetic appearance, this product is choice of architect for modern and minimalist designs.

MATERIAL

- Frame and cone: spun aluminium A1060, thickness 1.0 mm.
- Blade-joining frame: extruded aluminium A6061

FINISH

- Standard: matt white RAL 9010 (optional RAL code). Guaranteed up to 10 years.

DIMENSION

- Optional (see table).

PERFORMANCE

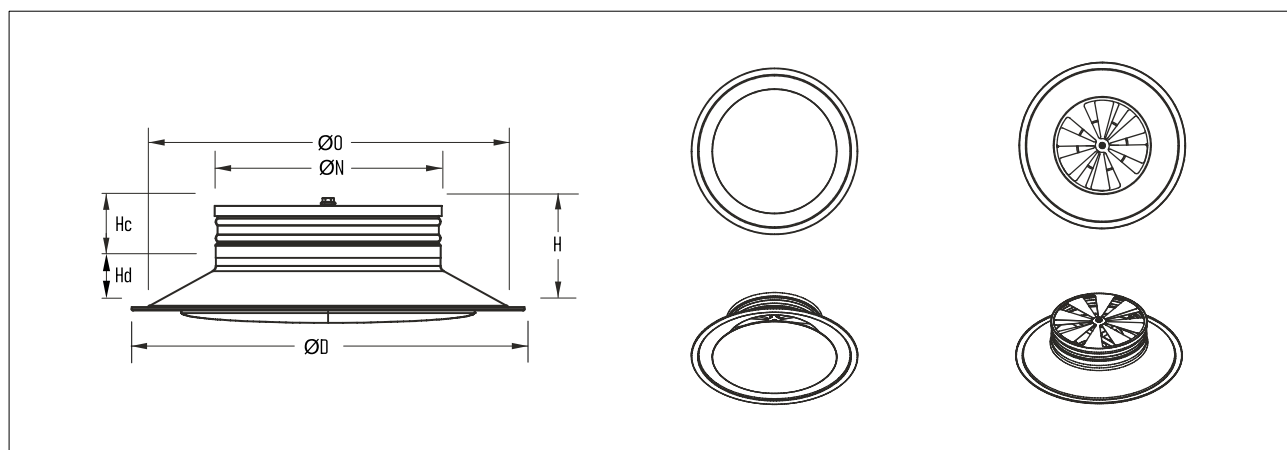
- Cone set is removable with latch
- Suitable for 2.6 - 4m high ceilings

OPTIONS

- Radial damper
- Low round plenum

- Square/round plenum & accessories to create "module" (see next page)

CONSTRUCTION



SIZE TABLE

(mm)

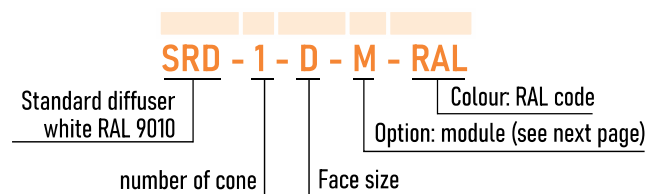
No.	Face size (D)	Neck size (N)	Opening size (O)	Height of cone (Hd)	Height of neck (Hc)	Total height (H)
1	300	145	260	39	70	109
2	300	195	260	39	70	109
3	410	245	370	49	70	119
4	460	295	420	66	75	141
5	600	345	560	68	75	143
6	600	395	560	68	75	143

PERFORMANCE DATA

Face size (mm)	Neck size (mm)	Neck velocity (m/s)	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0
		Vel. pressure (mmH ₂ O)	0.010	0.010	0.016	0.022	0.031	0.041	0.062	0.090
D300	D145	V (m ³ /h)	100	134	166	200	232	266	333	400
		Pressure loss (Pa)	4.2	6.7	9.9	13.7	17.7	22.4	32.9	45.3
		NC	-	-	-	-	-	25	30	35
		Throw (m)- Coanda effect	0.3-0.6-0.9	0.6-0.9-1.2	0.6-1.2-1.5	0.9-1.2-2.1	0.9-1.5-2.4	1.2-1.8-2.7	1.2-2.1-3.3	1.5-2.7-3.9
		Throw (m)- no ceiling effect	0.3-0.6-0.6	0.3-0.6-0.9	0.6-0.6-1.2	0.6-0.9-1.5	0.6-1.2-1.8	0.9-1.2-2.1	0.9-1.5-2.4	1.2-2.1-3.0
D300	D195	V (m ³ /h)	178	238	297	355	414	474	593	712
		Pressure loss (Pa)	5.0	8.2	12.0	16.1	21.4	26.9	39.6	54.0
		NC	-	-	-	-	25	25	35	40
		Throw (m)- Coanda effect	0.6-0.9-1.2	0.6-1.2-1.8	0.9-1.5-2.1	0.9-1.5-2.4	1.2-1.8-3.0	1.2-2.1-3.3	1.8-2.7-4.2	2.1-3.3-5.1
		Throw (m)- no ceiling effect	0.3-0.6-0.9	0.6-0.9-1.2	0.6-0.9-1.5	0.6-1.2-1.8	0.9-1.5-2.1	0.9-1.5-2.4	1.2-2.1-3.3	1.5-2.4-3.6
D410	D245	V (m ³ /h)	278	370	464	555	649	740	926	1111
		Pressure loss (Pa)	7.7	12.5	18.4	25.2	33.1	41.3	61.0	83.4
		NC	-	-	-	-	25	25	35	40
		Throw (m)- Coanda effect	0.6-0.9-1.5	0.6-1.2-1.8	0.9-1.5-2.4	1.2-1.8-2.7	1.2-2.1-3.3	1.5-2.4-3.6	1.8-3.0-4.5	2.1-3.6-5.4
		Throw (m)- no ceiling effect	0.3-0.6-0.9	0.6-0.9-1.5	0.6-1.2-1.8	0.9-1.5-2.1	0.9-1.5-2.4	1.2-1.8-2.7	1.5-2.4-3.3	1.5-2.7-4.2
D460	D295	V (m ³ /h)	401	533	668	800	934	1066	1334	1600
		Pressure loss (Pa)	7.5	12.5	18.2	24.9	32.4	40.8	60.0	81.9
		NC	-	-	-	-	25	25	30	40
		Throw (m)- Coanda effect	0.6-0.9-1.5	0.9-1.2-2.1	0.9-1.8-2.4	1.2-2.1-3.3	1.5-2.4-3.6	1.5-2.7-3.9	2.1-3.3-5.1	2.4-3.9-6.0
		Throw (m)- no ceiling effect	0.6-0.6-1.2	0.6-0.9-1.2	0.9-1.2-1.8	0.9-1.5-2.4	0.9-1.8-2.7	1.2-2.1-3.3	1.5-2.4-3.9	1.8-3.0-4.5

Note: Horizontal throw values are based on terminal vel of 0.5 m/s, 0.3 m/s and 0.2 m/s respectively **NC:** based on a room absorption of 10dB, re 10⁻¹²W, dash (-) is for NC<20

ORDERING CODE



Example: **SRD-1-D300-M** = White round diffuser, face size 300 (mm), with plenum

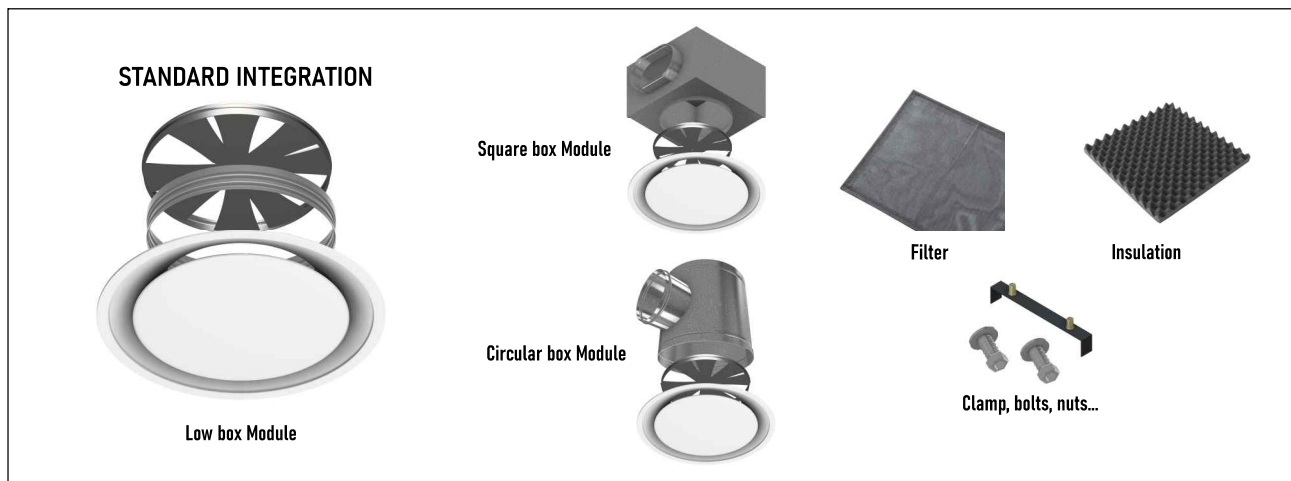
MODULE OFFERS

Grille/diffuser module of Starduct is an completed assembly including grille/diffuser and relating components & accessories.

The approach has been risen from a practice that to gain good performance for a grille/diffuser, choosing right and nice model is not enough. Also, performance and life span of a grille/diffuser depending on the quality and homogeneity of components and accessories such as plenum and additional material.

COMPONENTS IN A STARDUCT GRILLE/DIFFUSER MODULE (see more in the concerning catalogues)

- Grille/Diffuser
- Plenum box, available options:
 - Circular low box (as standard) - Above entry. Made of 1.2mm spun aluminium, powder coated.
 - Square box - Round outlet for round neck grille/diffuser - Top/side square/Oval/Round inlet. Made of 0.8-1.0 mm galvanized steel sheet.
 - Circular box - Round outlet for round neck grille/diffuser - Side round inlet. Made of 0.8-1.0 mm galvanized steel sheet.
- Insulation, available options:
 - Internally or externally apply over the plenum box. Material: acoustic PU foam (egg-crate) with many thicknesses.
- Volume control damper (for air supply), available options:
 - Slide radial damper. Material: aluminium plate, black powder coated.
- Filter/insect net (if used as return grilles), available options:
 - Normal dust filter (as standard). Material: nylon
 - Special filter: G4, Hepa.. (please contact us)
- Accessories: Clamp, threaded bar, sealing tapes, sealing glues etc.



BENEFITS OF STARDUCT GRILLE MODULE

1. Save costs: buying every items from only one supplier.
2. Controllable for total quality of the product
3. Simple purchasing procedure: 1 design, 1 approval, 1 order, 1 check, 1 responsible person.
4. Minimize risk of damage and management
5. Good standard : Starduct products are made and tested in accordance with national and international standard.

ORDERING CODE

