

Ceiling Diffusers

Square diffusers with perforated sheet



SC 310 R series - Steel



BR damper



SC 319 R series - Steel

Advantages

- Circular connection and plenum integrated in to the diffuser to gain installation time.
- Diffusion from one to four ways adjustable on site.
- Filtration for air exhaust - SC 319 R.

APPLICATION

- Air supply (SC 310 R model) or air exhaust (SC 319 R model).
- Adjustable diffusion (in one to four directions) by means of individually adjustable deflectors.
- Heating ($\Delta T_{max} = + 30^{\circ} C$) and air-conditioning ($\Delta T_{max} = - 14^{\circ} C$) installations with adjustable important airflow rates.
- Ceiling mounted.
- Possible air exhaust filtration.

DESCRIPTION

- Removable perforated sheet metal.
- Finish - white epoxy painted steel RAL 9010 tint.
- Fixing to the concealed concrete tile using lugs mounted on the diffuser (F16 fixing).
- Direct connection to circular ducts.

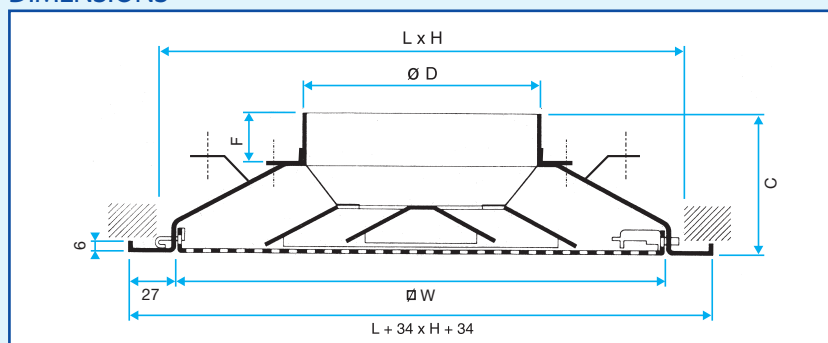
ACCESSORIES

- BR dampers: type butterfly damper with 2-V shaped blades. Fitted into the supply duct.
- Connecting plenum integrated into the diffuser. Circular connection (on the top).
- W flat filter attached to T-stop ring. M1 fire rating. G3 for exhaust diffusers SC 319 R.

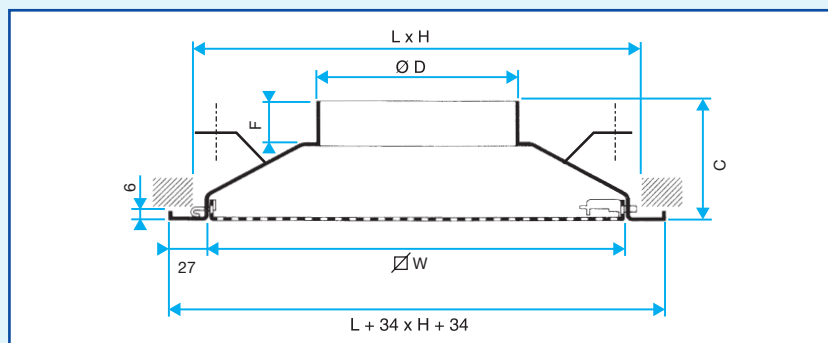
ADDITIONAL RANGE

- Fixed diffusion version.
- Paint finish in accordance with the RAL colour chart (please, consult us).

DIMENSIONS



SC 310 R air supply diffuser



SC 319 R air exhaust diffuser

Comfort airflow levels for Lw < NR 30 and dimensions						
Ø D (mm)	W (mm)	L x H (mm)	C (mm)	F (mm)	Air supply airflow (m ³ /h)	Air exhaust airflow with filter (m ³ /h)
160	280	300 x 300	98	55	250	250
200	380	400 x 400	108	60	400	450
250	480	500 x 500	122	60	600	650
315*	542	562 x 562	135	60	900	900

- * Designed for 600 x 600 mm suspended ceiling tiles.
• See selection table on page 286.

RANGE R10

Dimensions	Air supply diffuser SC 310 R F16	Damper BR	Exhaust diffuser SC 319 R F16	Insulated air supply diffuser SC310 RIF (5) F16	Spare filter W
	Code	Code	Code	Code	Code
Ø 160	11051140	11053220	11051170		
Ø 200	11051141	11053221	11051171		11053519
Ø 250	11051142	11053222	11051172		11053520
Ø 315	11051143	11053223	11051173	11051144	11053521

Selection Tables



Series SC 360 R - SC 310 R

Air supply in 4 directions with ceiling effect

Ak (m ²)	L x H (mm)	Ø D (mm)	qv (m ³ /hr)																			
			125		150		200		250		300		400		600		800		1000			
0.018	300 x 300	160	—	0.8	—	1.0	21	1.3	28	1.7	34	2.0							Lw		Lt	
			1.9	3.2	2.3	4.6	3.1	8.1	3.9	13	4.6	18										
0.034	400 x 400	200					—	1.0	—	1.2	19	1.5	27	2.0					Vk		Pa	
							1.6	2.7	2.0	4.3	2.5	6.2	3.3	11								
0.056	500 x 500	250									—	1.2	—	1.5	27	2.3	37	3.8				
											1.5	2.3	2.0	4.0	3.0	9.1	4.0	16				
0.080	562 x 562	315	Lw	Lt									—	1.3	16	1.9	25	2.5	32	3.2		
			Vk	Pa									1.4	1.7	2.1	3.9	2.8	6.9	3.5	11		

The values Lw (NR) do not take the attenuation in the premises into account.

Speed = 0.5 m/s.

Corrections for other terminal velocities

Vt (m/s)	0.25	0.37	0.5	0.63	0.75
Lt	x 1.63	x 1.33	x 1	x 0.8	x 0.67

n