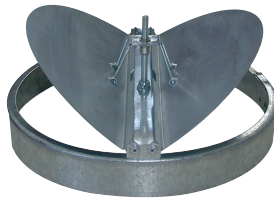


Ceiling Diffusers

Fixed circular diffusers for ceiling tiles



SC 832 TP series - Steel



BR damper

Advantages

- Designed for 600 x 600 mm suspended ceiling tiles.
- Easy installation.

APPLICATION

- Ceiling mounted diffuser designed to replace a 600 x 600 mm suspended ceiling tile (T-shaped framework).
- Horizontal air supply, fixed diffusion pattern.
- Simple heating and air-conditioning installations.

DESCRIPTION

- Fixed circular cones in pressed steel.
- Compensation plate in steel to replace a suspended ceiling tile.
- Concealed fixing to the concrete tile, using a screw in the neck of the diffuser.

NOTE: the diffuser weight must not be borne by the frame of the suspended ceiling. Use the suspension cables.

- Direct connection to circular ducts or the LRE plenum.
- Finish - white epoxy painted steel RAL 9010 tint.

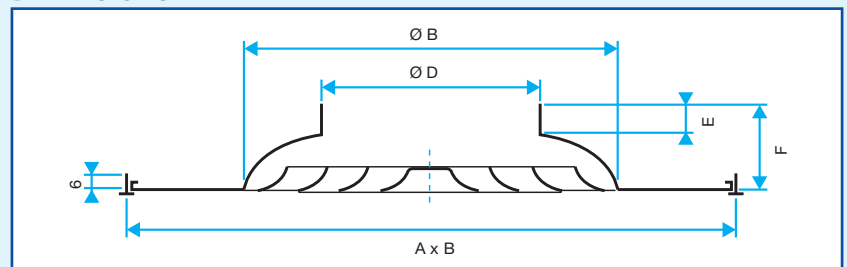
ACCESSORIES

- Butterfly type BR damper with 2 V-shaped blades.
- LRE side connection plenum in galvanised steel.

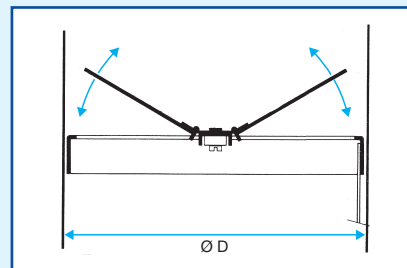
ADDITIONAL RANGE

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

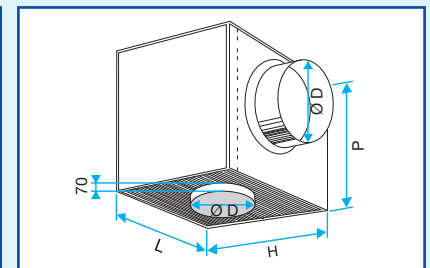
DIMENSIONS



SC 832 TP diffuser



BR damper



LRE plenum

Comfort airflow levels for $L_w < NR 35$ and dimensions

Ø D (mm)	A x B* (mm)	Ø B (mm)	E (mm)	F (mm)	P (mm)	Airflow from (m ³ /h)
160	600 x 600	188	60	104	210	250
200	600 x 600	235	60	104	250	450
250	600 x 600	294	60	104	300	600
315	600 x 600	370	60	104	365	900

* Nominal ceiling tile dimensions.

- For plenum sizes see page 248.
- See selection table on page 287.

RANGE R10

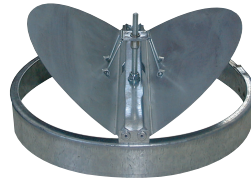
Dimensions	Damper BR Code	Diffuser SC 832 TP Code	Plenum LRE Side connector Code
Ø 160	11053220	11051015	11053311
Ø 200	11053221	11051016	11053312
Ø 250	11053222	11051017	11053313
Ø 315	11053223	11051018	11053314

Ceiling Diffusers

Adjustable circular diffusers



AF 842 series - Aluminium



BR damper

Advantages

- Available in two standard finishes.
- Wide airflow level range.
- Highly simplified adjustment (patented system).
- Easy ceiling fixing using the F16 lugs.

APPLICATION

- Adjustable horizontal or vertical air supply diffusion.
- Heating ($\Delta T_{max} = + 30^{\circ} C$) and air-conditioning ($\Delta T_{max} = - 16^{\circ} C$) installations.
- Ceiling mounted or on exposed ductwork.

DESCRIPTION

- External cone in aluminium and core in pressed steel.
- Adjustable air diffusion by a quick and easy worm screw system (patented).
- Painted in epoxy, white RAL 9010 or coloured alu. RAL 9006.
- Fixing to the concealed concrete tile using lugs mounted on the diffuser (F16 fixing).
- Direct connection on a circular duct or using the LRE plenum.

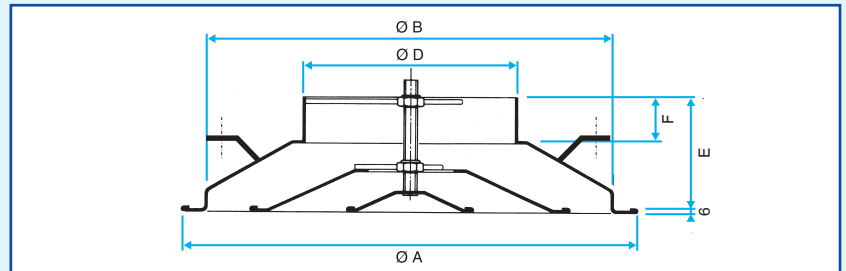
ACCESSORIES

- BR damper: butterfly type with either 2 or 4 V-shaped blades (depending on diameter). Manufactured in steel. Adjusted through the diffuser by direct movement of the blades.
- BY damper: butterfly type with either 2 or 4 V-shaped blades (depending on diameter). Manufactured in steel. Adjusted through the diffuser by direct movement of the blade.
- LRE side connection plenum in galvanised steel.

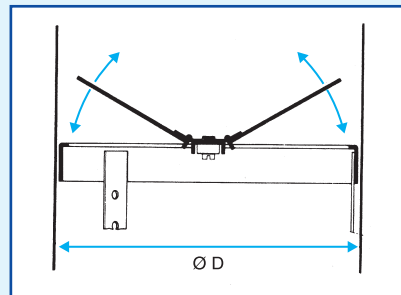
ADDITIONAL RANGE

- Paint finish in accordance with the RAL colour chart (please, consult us).
- LRE insulated connection plenums or with different connection diameters (please, consult us).

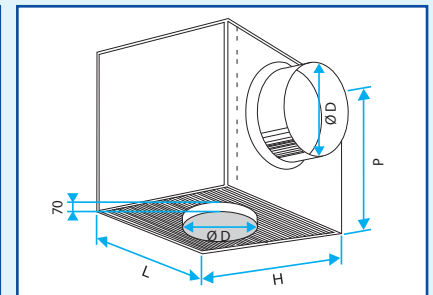
DIMENSIONS



AF 842 diffuser



BR damper



LRE plenum

Comfort airflow levels for $L_w < NR 35$ and dimensions

Ø D (mm)	Ø A (mm)	Ø B (mm)	E (mm)	F (mm)	P (mm)	L x H (mm)	Airflow (m ³ /h)
160	354	295	110	55	210	220 x 220	250
200	428	370	120	50	250	265 x 265	400
250	532	465	135	50	300	315 x 315	650
315	623	555	150	50	365	375 x 375	850
355	730	645	187	75	405	420 x 420	1100
400	776	690	185	78	450	460 x 460	1300
500	909	807	195	79	550	560 x 560	1800
630	1045	950	184	75	680	690 x 690	2500

• See selection table page 286.

RANGE R10

Dimensions	Damper BR Code	Diffuser AF 842 F16 RAL9006 Code	Diffuser AF 842 F16 RAL9010 Code	Plenum LRE Side connector Code
Ø 160	11053220	11051521	11051060	11053311
Ø 200	11053221	11051522	11051061	11053312
Ø 250	11053222	11051523	11051062	
Ø 315	11053223	11051524	11051063	
Ø 355	11053224	11051525	11051064	11053315
Ø 400	11053225	11051526	11051065	
Ø 500	11053227	11051528	11051067	
Ø 630	11053228	11051529	11051068	

Selection Tables



SC 831 - SC 832 TP Series

Air supply with ceiling effect

Ak (m ²)	Ø N (mm)	qv (m ³ /hr)												1600										
		150		200		300		400		500		600		800		1000		1200		1400		Lw	Lt	
0.011	160	-	1.8	27	2.3	41	3.4																Lw	Lt
		3.9	1	5.0	22	7.5	50																Vk	Pa
0.020	200	-	1.3	-	1.8	23	2.6	33	3.4	41	4.3													
		2.1	6.0	2.8	7.8	4.1	15	5.7	28	7.0	45													
0.031	250			-	1.4	-	2.1	20	2.7	27	3.5	34	4.1	45	5.5									
				1.9	-	2.7	7.2	3.6	12	4.5	18	5.5	26	7.5	50									
0.046	300					-	1.7	-	2.3	15	2.8	22	3.3	32	4.6	40	5.7	46	6.7					
						1.9	-	2.5	5.5	3.1	8.0	3.7	14	5.0	22	6.2	35	7.5	50					
0.047	355	Lw	Lt					7	1.9	10	2	20	2.8	30	3.5	37	4.5	40	5.4	50	7.1	57	7.8	
		Vk	Pa					28	3.2	2.8	4.8	3.5	7	4.8	12	6	20	7	28	10.2	39.2	11.6	50.3	

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

Speed = 0.37 m/s

Corrections for other terminal velocities

Vt (m/s)	0.25	0.37	0.5
Lt	x 1.5	x 1	x 0.75