

Ceiling Diffusers

Fixed square diffusers for ceiling tiles



AN 704 TP - SF 704 TP series
Aluminium or steel



AF 704
with filter for air exhaust



Damper B 700

Advantages

- Designed for 600 x 600 mm suspended ceiling tiles.
- Aesthetic design.
- Air exhaust filter.
- The filter is accessible by a quick and simple dismantling of the central core.

APPLICATION

- Ceiling mounted diffuser designed to replace a 600 x 600 mm suspended ceiling tile (T-shaped framework).
- Air supply or exhaust, fixed diffusion pattern.
- Heating installations ($\Delta T_{max} = +30^\circ C$) and air-conditioning ($\Delta T_{max} = -16^\circ C$) installations.
- Possibility of adding a filter for air exhaust use.

DESCRIPTION

- External frame and core assembly of extruded aluminium sections (AN type) or in sheet steel section (SF type).
- Based on the design of the type 704 diffuser as standard, integrated into an aluminium or steel plate.
- White epoxy painted, RAL 9010 tint.
- Invisible fixing, using a screw in the neck of the diffuser. The plenum is fitted with lugs for fixing to the concrete tile.

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

ACCESSORIES

- B700 aluminium damper. Counter-rotating dampers. Adjustment via the front panel of the diffuser. Mounted on the diffuser using the clips supplied.
- W4 folded filter (50 mm in height) G3, M1 fire rating, for air exhaust use. Access to the filter is made by a simple and rapid central core.
- NOTE: the use of a W4 filter is incompatible with the B700 damper.
- RT connection plenums (top connection) and RE (side connection) in galvanised steel.
- REI (5) side connection plenums in galvanised steel, thermally insulated on five face (to avoid any risk of condensation in air-conditioning.)

ADDITIONAL RANGE

- Models adapted to 675 x 675 mm suspended ceilings or with Fine-line frameworks (please, consult us).
- Paint finish in accordance with the RAL colour chart (please, consult us).
- Various connection diameters for connection on RT and RE plenums.
- For exhaust air filtration (please, consult us).

RANGE R10

Dimensions	Damper B 700 Code	Insulated side plenum REIF (5) Code	Rear plenum RT Code	Side plenum RE Code	Steel diffuser SF 704 TP Code	White aluminium diffuser AN 704 Z TP Code
150 x 150	11051321		11053580	11053610	11051076	11051746
225 x 225	11051322	11053594	11053583	11053613	11051077	11051747
300 x 300	11051323	11053595	11053585	11053615	11051078	11051748
375 x 375	11051324	11053596	11053588	11053618	11051079	11051749

Dimensions	Filter cassette (G3 filter included) CW4 Code	G3 filter alone (for spares) W4 Code
150 x 150	11053431	11053371
225 x 225	11053432	11053372
300 x 300	11053433	11053373
375 x 375	11053434	11053374

Selection Tables



Series AF 704 - AN 704 TP - SF 704 TP

Air supply in 4 directions with ceiling effect

Ak (m ²)	L x H (mm)	qv (m ³ /hr)												Lw Lt Vk Pa	
		100	150	200	250	300	400	500	600	800	1000	1200	1500		
0.011	150 x 150	20	0.7	29	1.0	34	1.4							Lw Lt Vk Pa	
		2.8	4.6	4.2	10	5.6	19								
0.023	225 x 225	17		0.8	23	1.0	28	1.2	32	1.5	37	2.0			
		2.1		2.6	2.8	4.6	3.5	7.2	4.2	10	5.6	19			
0.038	300 x 300	1.8		0.9	22	1.1	28	1.5	32	1.8	36	2.3			
		1.9		2.2	2.3	3.2	3.1	5.7	3.9	9.0	4.6	13			
0.057	375 x 375	21		1.2	25	1.5	29	1.8	35	2.4	40	3.0			
		1.9		2.4	2.5	3.7	2.9	5.3	3.9	9.4	5.0	15			
0.087	472 x 472	23		1.5	29	2.0	33	2.4	37	3.0	42	3.7			
		2.1		2.5	2.8	4.5	3.4	5.9	4.2	10	5.1	15			
0.106	525 x 525	24		1.7	28	2.1	32	2.6	37	3.2				Speed = 0.5 m/s.	
		2.0		2.4	2.5	3.8	3.1	5.5	5.3	8.6					
0.137	600 x 600	Lw	Lt	20		1.5	24	1.8	28	2.2	32	2.7			
		Vk	Pa	1.5		1	2	2.4	2.5	3.8	3	5.4			

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 2	x 1.33	x 1	x 0.8	x 0.67