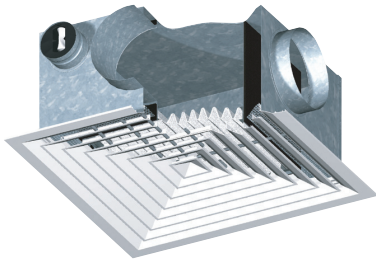
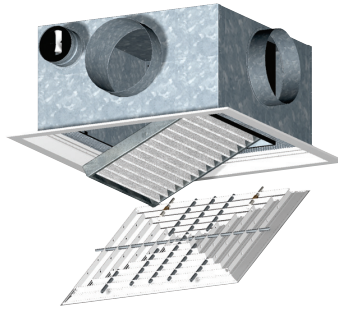


Special Diffusers

Square diffusers air supply + air exhaust



Standard Combined Solution
SF/SN 704S series
AF/AN 704S RREI Combined series
Steel or aluminium



Advantages

- Integrated air supply + air exhaust diffuser.
- Saves time during installation.
- Suitable for both centralised air conditioning and convector fans using ducts.
- Access to the air return filter (optional).

APPLICATION

- Simultaneous air supply (on the periphery) and air exhaust (at the centre) for all ventilation and air-conditioning applications.
- Ceiling mounted diffuser designed to replace a 600 x 600 or 675 x 675 mm suspended ceiling tile (T-shaped framework).
- Fixed air diffusion in four directions.
- Heating and air-conditioning installations.

DESCRIPTION

- Double plenum and air diffuser assembly ensuring the functions of air supply and exhaust simultaneously.
- SF and SN types: white epoxy painted steel RAL 9010 tint.
- AF and AN types: diffuser in anodised aluminium, natural satin finish.
- Double plenum in galvanised steel with two branches at 90°.
- Invisible fixing, using a screw in the neck of the diffuser. The plenum is fitted with lugs for fixing to the concrete tile. Use the suspension cables.

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

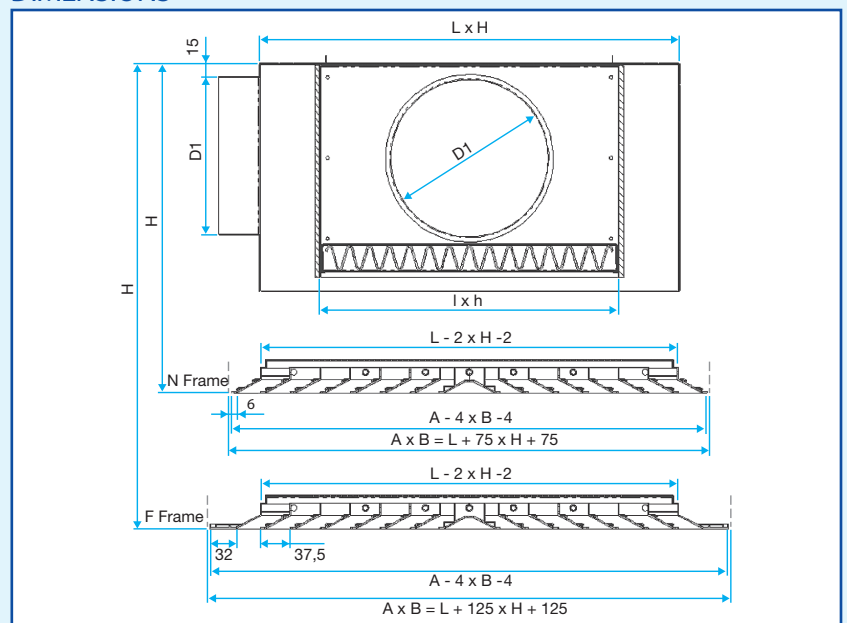
ACCESSORIES

- Folded 35 mm filter – G3 efficiency – M1 fire-resistance rating for air exhaust.

ADDITIONAL RANGE

- Paint finish in accordance with the RAL colour chart (please, consult us).
- Other connection diameters for the various airflow rates (please, consult us).

DIMENSIONS



704 S R REI diffuser

Comfort airflow levels for LW < NR 35 (air supply + exhaust) and dimensions

Model	A x B* (mm)	L x H (mm)	l x h (mm)	H (mm)	Ø D1 (mm)	Airflow (m ³ /h)
AF/SF 704S R REI	600 x 600	472 x 472*	323 x 323	355	250	500
AN/SN 704S R REI	600 x 600	525 x 525*	375 x 375	420	315	650
AN/SN 704S R REI	675 x 675	600 x 600**	375 x 375	420	315	850

* Dimensions for 600 x 600 mm suspended ceiling tiles.

** Dimensions for 675 x 675 mm suspended ceiling tiles.

• See selection table on page 282.

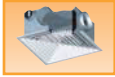
RANGE R10

Dimensions	Diffuser SF 704 S Code	Double plenum R-REI Code	Filter (L1 x H1) W Code
472 x 472*	11051051	11003291	11053511
525 x 525 + 600 x 600			11053512

PRODUCT RANGE WITH CHOICE OF OPTIONS R10

Dimensions	Diffuser AF 704 S Code	Diffuser AN 704 S Code	Diffuser SF 704 S Code	Diffuser SN 704 S Code	Double plenum R-REI Code
472 x 472*	11002804		11002803		11003291
525 x 525*		11002807		11002805	11003292
600 x 600**		11002808		11002806	11003293

Selection Tables



Combined Series

Air supply in 4 directions with ceiling effect - air supply + air exhaust

Air supply selection (at the periphery of the diffuser)

Type	Ak (m ²)	L x H (mm)	qv (m ³ /hr)													
			450		550		650		750		850		950		1100	
SF/AF	0.05	472 x 472	29	2.1	33	2.6	36	3.1	39	3.5					Lw	Lt
			2.5	21	3.1	32	3.61	45	4.2	60					Vk	Pa*
SN/AN	0.06	525 x 525			30	2.4	33	2.8	36	3.2	38	3.7				
					2.6	22	3	31	3.5	42	3.9	53				
SN/AN	0.09	600 x 600	Lw	Lt							31	3	33	3.4	36	4
			Vk	Pa*							2.6	24	3	29	3.4	40

* Pressure loss for the Combined assembly in air supply.

The values Lw (NR) do not take the attenuation in the premises into account and concern the Combined assembly in both air supply and air exhaust.

Speed = 0.5 m/s.

Air exhaust selection (at the centre of the diffuser)

Type	Ak (m ²)	L x H (mm)	L1 x H1 (mm)	qv (m ³ /hr)													
				450		550		650		750		850		950		1100	
SF/AF	0.07	472 x 472	323 x 323	1.8	16	2.2	24	2.6	34	3	45					Vk	Pa*
SN/AN	0.094	525 x 525	375 x 375			1.6	14	1.9	19	2.2	25	2.5	32				
SN/AN	0.094	600 x 600	375 x 375	Vk	Pa*							2.5	32	2.8	40	3.2	53

* Pressure loss for the Combined assembly in air exhaust.

Air exhaust filter selection

Type	Ak (m ²)	L x H (mm)	L1 x H1 (mm)	qv (m ³ /hr)									
				450	550	650	750	850	950	1100			
SF/AF	0.07	472 x 472	323 x 323	21	25	29	33					Pa	
SN/AN	0.094	525 x 525	375 x 375			19	22	25	29				
SN/AN	0.094	600 x 600	375 x 375	Pa					29	34			

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