

# -DF series multidirectional air diffusers

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## -DF SERIES MULTIDIRECTIONAL AIR DIFFUSERS

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### FEATURES

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Diffuser, which can be used for both air intake and extraction in indoor environments, especially on ceiling.

It consists of a flat white screen, spaced from the frame so as to spread air tangentially to the four sides, and a frame that also acts as a support for the screen.

The diffuser's screen is the same size as the outside of the frame, of which only the outer edge remains in view.

-DF diffusers have the possibility of **adjusting** the gap that exists between the screen and the frame to two positions, 3 mm apart, by shifting the shim interposed between the springs and the screen (an operation by the customer).

The screen pulls out and inserts very easily for cleaning.

#### Construction materials

- Aluminum thickness 1.5 mm for the screen.
- PVC color white RAL 9010 for the frame.
- Forex thick 6mm for the insulation board on the non-visible face of the screen.
- Steel for clips (springs).

#### Screen color

White RAL 9010, with epoxy powder coating.

#### Fixing methods

- Steel clips (springs) for quick-release attachment of the screen to the frame. In addition, the frame has 2 nylon thread safety cables to be attached (by the customer) to two of the eight screen spring-fixing screws by unscrewing the nuts, inserting the eyelets under the washers, and screwing them back on.
- Mounting of the frame on the PAL plenum, if any, is quick-fit (see also the PAL plenum data sheet).



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### ACCESSORIES (optional)

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- Contrast calibration damper (PVC frame and bayblend fins) -S/02 series .
  - Plenum in polyisocyanurate -PAL/02 series.
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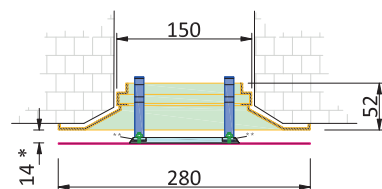
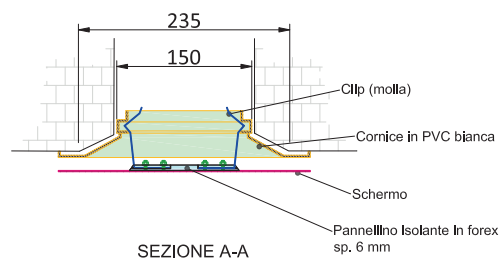
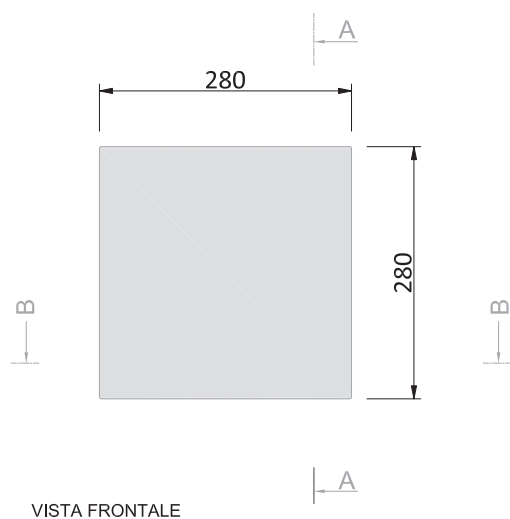
## DIMENSIONS

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### Diffusore multidirezionale DF 150x150

Codice -DF/150X150B

Con schermo in alluminio spess. 1,5 mm bianco RAL9010.

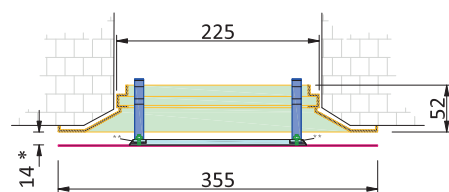
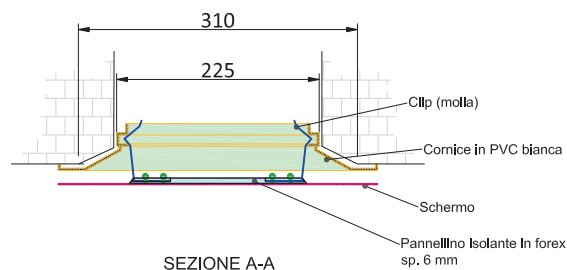
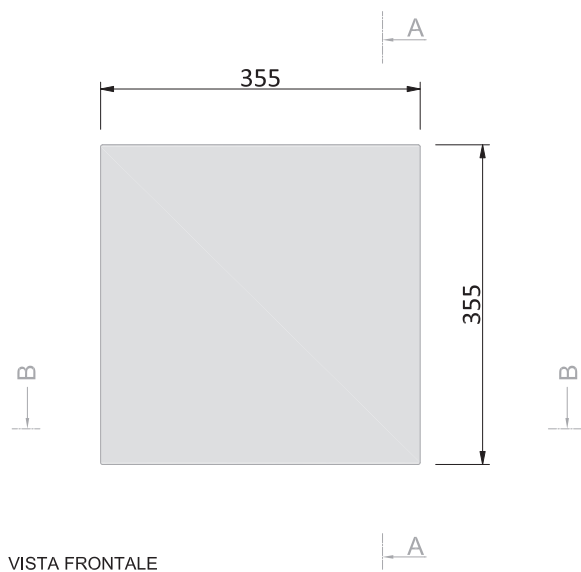


\* per aumentare la portata del diffusore si portano le linguette in forex sp.3 mm al di sotto delle molle: la fessura perimetrale misurerà 17 mm anzichè 14 mm.

### Diffusore multidirezionale DF 225x225

Codice -DF/225X225B

Con schermo in alluminio spess. 1,5 mm bianco RAL9010.



\* per aumentare la portata del diffusore si portano le linguette in forex sp.3 mm al di sotto delle molle: la fessura perimetrale misurerà 17 mm anzichè 14 mm.

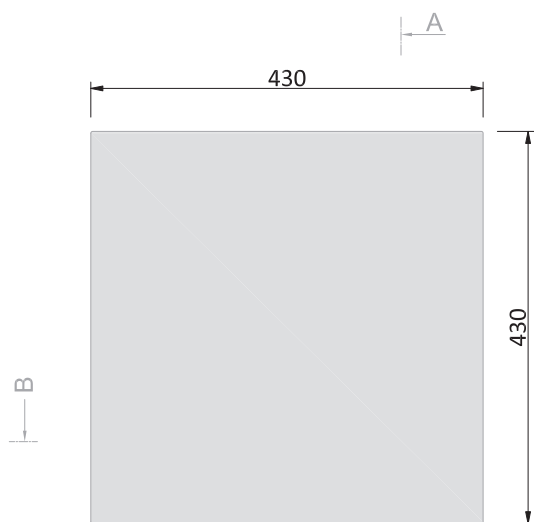
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## DIMENSIONS

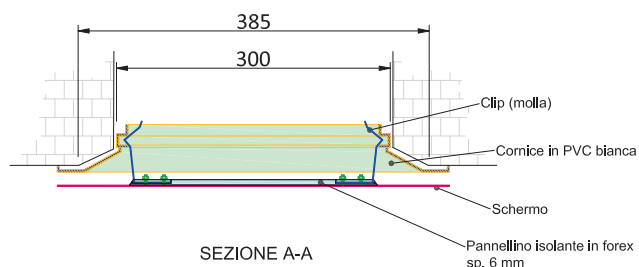
### Diffusore multidirezionale DF 300x300

Codice -DF/300X300B

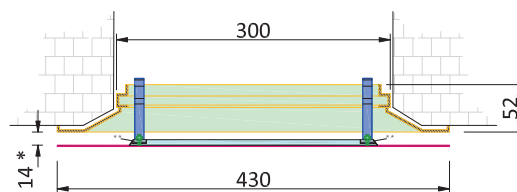
Con schermo in alluminio spess. 1,5 mm bianco RAL9010.



VISTA FRONTALE



SEZIONE A-A



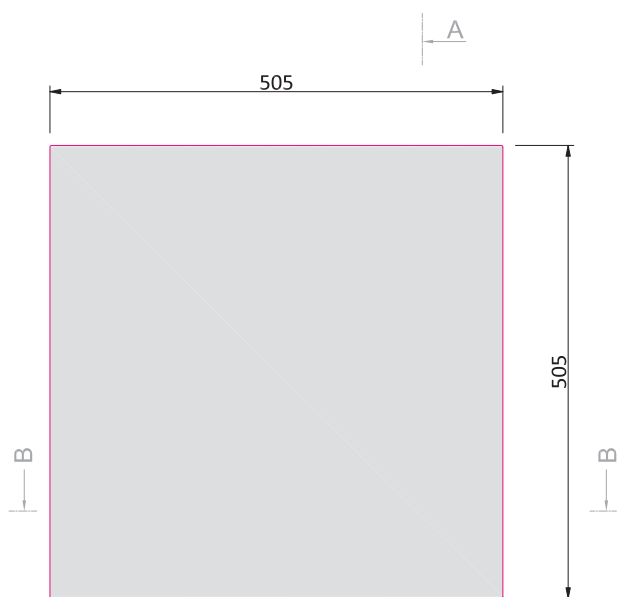
SEZIONE B-B

\* per aumentare la portata del diffusore si portano le linguette in forex sp.3 mm al di sotto delle molle: la fessura perimetrale misurerà 17 mm anziché 14 mm

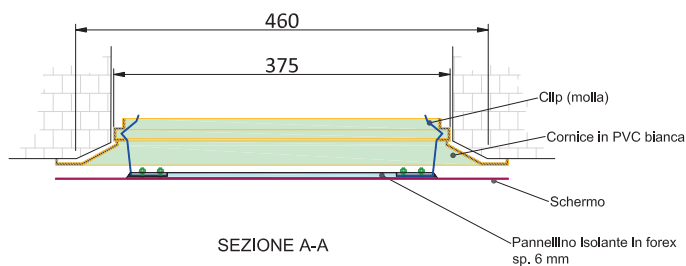
### Diffusore multidirezionale DF 375x375

Codice -DF/375X375B

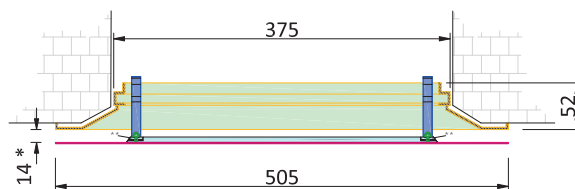
Con schermo in alluminio spess. 1,5 mm bianco RAL9010.



VISTA FRONTALE



SEZIONE A-A



SEZIONE B-B

\* per aumentare la portata del diffusore si portano le linguette in forex sp.3 mm al di sotto delle molle: la fessura perimetrale misurerà 17 mm anziché 14 mm.

# TABLE WITH DIFFUSERS DIMENSIONS

Code	Adjustment of the distance ceiling-screen*	Plenum neck size [mm]	Screen size [mm]	Size of the hole to do on the false ceiling [mm]
-DF/150X150B	2 steps	150x150	280x280	235x235
-DF/225X225B	2 steps	225x225	355x355	310x310
-DF/300X300B	2 steps	300x300	430x430	385x385
-DF/375X375B	2 steps	375x375	505x505	460x460
-DF/375X150B	2 steps		505x280	ask our technical office
-DF/450X225B			580x355	

(\*) The two steps are for 14 mm or 17 mm high slots for air passage.  
The flow rates for adjusting -DF series diffusers on either step vary proportionally.

# QUICK SELECTION TABLE

Code	Area on useful diffusion contour [m <sup>2</sup> ]	Flow rate (m <sup>3</sup> /h) with v = 2.5 m/s	Flow rate (m <sup>3</sup> /h) with v = 3 m/s	Flow rate (m <sup>3</sup> /h) with v = 4 m/s	Flow rate (m <sup>3</sup> /h) with v = 5 m/s	Flow rate (m <sup>3</sup> /h) with v = 6 m/s
		Pressure drop: 2 Pa	Pressure drop: 3 Pa	Pressure drop: 5 Pa	Pressure drop: 8 Pa	Pressure drop: 12 Pa
-DF/150X150B	0.0135	122	146	195	243	292
-DF/225X225B	0.0169	153	183	244	305	366
-DF/300X300B	0.0208	184	221	295	368	442
-DF/375X375B	0.0243	218	262	349	437	524
-DF/375X150B		ask our technical office				
-DF/450X225B						

-DF diffuser flow rates are for 14 mm high perimeter slot; for slot increased to 17 mm, also increase flow rates by 22%.