



Serie DF



LINEAR DIFFUSER



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LINEAR DIFFUSER SERIE DF



MODELS

DF10

Linear diffuser with directional blades, L (mm) x n° of slots.

DF10C

Linear diffuser with directional blades and flow regulation (slide control damper), L (mm) x n° of slots.



DF10P

Linear diffuser with directional blades and plenum box, L (mm) x n° of slots.

DF10PA

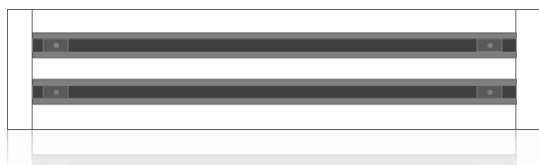
Linear diffuser with directional blades and internally insulated plenum box, L (mm) x n° of slots.

DF10CP

Linear diffuser with directional blades, with plenum box and flow regulation (damper) in the opening port of the plenum (accessible from the false ceiling), L (mm) x n° of slots.

DF10CPA

Linear diffuser with directional blades, internally insulated plenum box and flow regulation (damper) in the opening port of the plenum (accessible from the false ceiling), L (mm) x n° of slots.



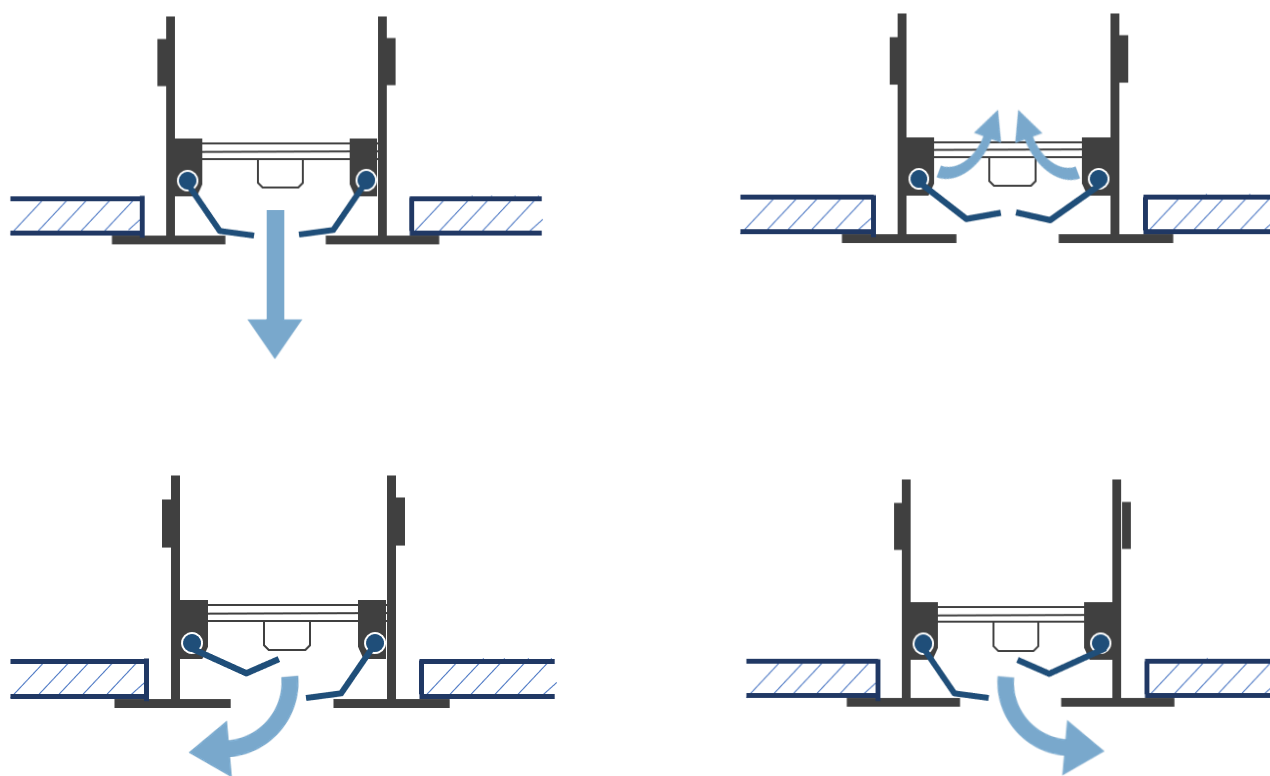
APPLICATIONS

Concealed linear diffuser with blades specially designed for ceiling discharge. It allows directing the air stream horizontally or vertically depending on the ceiling height and the temperature difference.

Its conception and design allow to adapt to the current minimalist design, in which it is important that the elements are as hidden as possible.

Easy to attach to the ceiling for return by plenum.

AIR FLOW ORIENTATION



ACCESSORIES

- Flow regulation adjustment by means of a sliding damper incorporated in the aluminum profiles (except in models with Plénum).
- Fixed connection plenum (standard), attached to the diffuser by means of rivets.
- Removable connection plenum, connected to the diffuser by means of crossbar.

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- Regulation adjustment of sheet metal disc in the plenum opening port, accessible from the false ceiling (standard).
- Regulation adjustment of equalizing plate disc in the plenum box, accessible from the false ceiling.
- Plastic disc regulation adjustment in the plenum opening port, accessible from the room.
- Equalizer plate disc regulation adjustment in the plenum opening port, accessible from the room.
- Crossbar from 1 to 6 slots diffuser.
- Finishing pair, It will be supplied installed, and the required number of pairs will be 1 per continuous diffuser line.

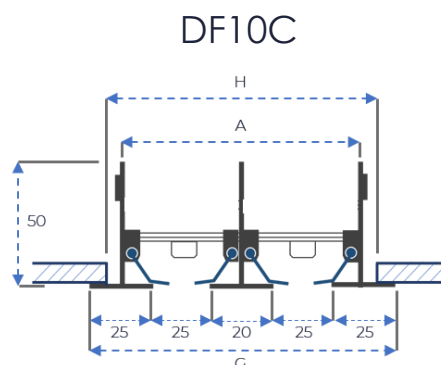
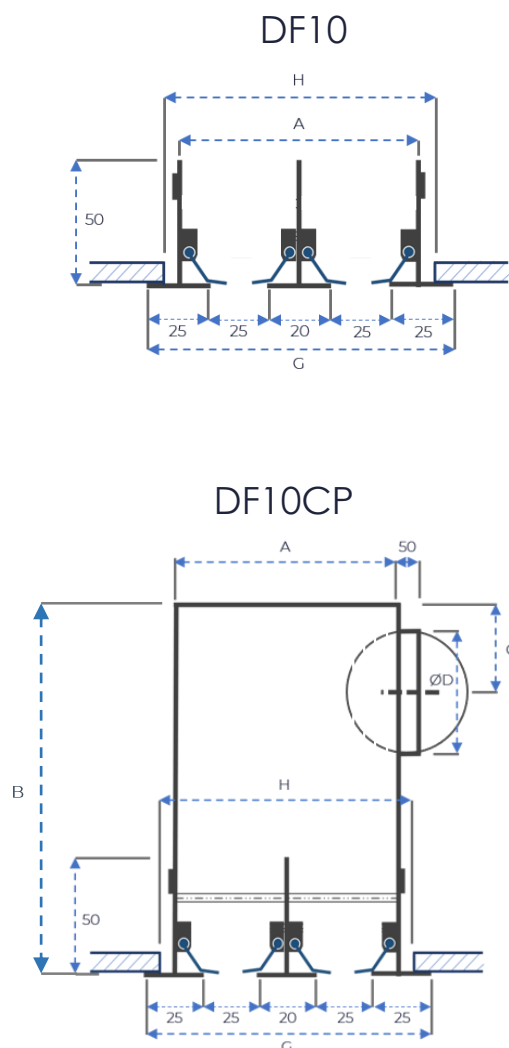
FINISHES (Diffuser)

- Diffuser made in **ANODIZED ALUMINIUM**.
- Diffuser made in **WHITE LACQUERED** aluminum.
- On request, it can be manufactured in aluminum lacquered in other colors of the **RAL CHARTER**.

FINISHES (Blades)

- **BLACK LACQUERED** (STANDARD) aluminum blades.
- **WHITE LACQUERED** aluminum blades.
- On request, it can be manufactured in aluminum lacquered in other colors of the **RAL CHARTER**.

DIMENSIONS



MEASUREMENT DISTRIBUTION

L MEAS's (mm)	SECTIONS	L MEAS's (mm)	SECTIONS
2000	1x2000	6500	3X1500 1X2000
2500	1x1500 1x1000	7000	2X1500 2X2000
3000	2X1500	7500	1X1500 3X2000
3500	1X1500 1X2000	8000	4X2000
4000	2X2000	8500	3X1500 2X2000
4500	3X1500	9000	2X1500 3X2000
5000	2X1500 1X2000	9500	1X1500 4X2000
5500	1X1500 2X2000	10000	5X2000
6000	3X2000		

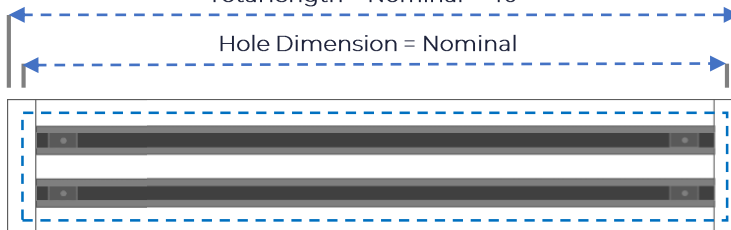
NUMBER OF CONNECTION SOCKETS IN THE PLENUM

$0 < L \leq 1000 \rightarrow 1$ CONNECTION PORT.

$1000 < L \leq 2000 \rightarrow 2$ CONNECTION PORTS.

Total length = Nominal + 40

Hole Dimension = Nominal



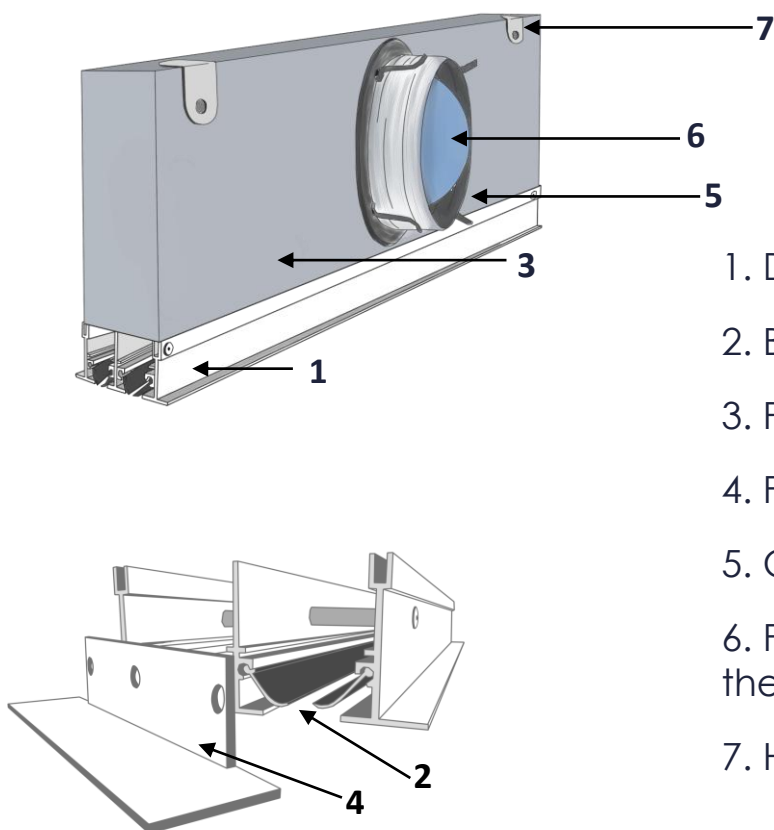
NOTE: For intermediate sizes, the next larger size is selected and if it contains a single diffuser of one size, the difference will be subtracted from it until the requested size is reached. If it contains more than 1 unit of each size, the smaller size will be subtracted.

MEASUREMENT DETAILS

	A	B	C	Ø D	H	G
1 vía	48	250	90	148	60	75
2 vías	93	300	115	198	105	120
3 vías	138	350	140	248	155	165
4 vías	183	400	165	298	198	210
5 vías	228	450	190	348	240	255
6 vías	273	500	215	398	285	300

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Installation detail with plenum



1. Diffuser

2. Blades

3. Plenum box

4. Finishing pair

5. Connection port

6. Flow regulation (damper) in the opening port of plenum

7. Hanging lugs

Installation detail in false ceiling

1. Diffuser

2. Blades

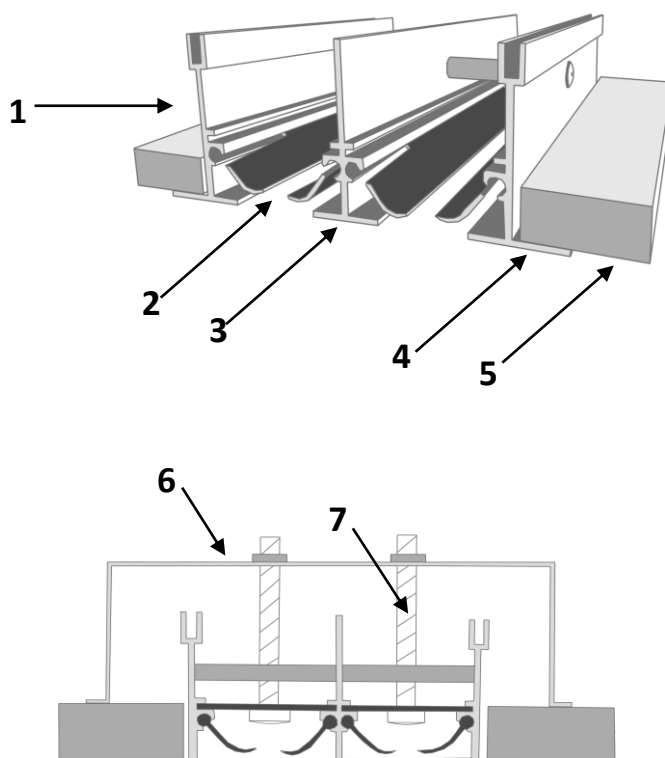
3. Central profile

4. Side profile

5. Ceiling

6. Crossbar for ceiling (without plenum)

7. Screws for crossbar (without plenum)



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QUICK SELECTION TABLE

DF10 (WITHOUT SLIDE ADJUSTMENT)				
N° Slots	1	2	3	4
100	Ve	2,8		
	L	1,8		
	ΔP	1,2		
	dB(A)	<15		
150	Ve	4,2		
	L	2,3		
	ΔP	1,8		
	dB(A)	<15		
200	Ve	5,6		
	L	2,8		
	ΔP	2,7		
	dB(A)	25		
250	Ve	6,9	3,5	
	L	3,3	2,6	
	ΔP	3,9	1,5	
	dB(A)	34	<15	
300	Ve	4,2		
	L	3		
	ΔP	1,8		
	dB(A)	19		
350	Ve	4,9	3,2	
	L	3,3	2,9	
	ΔP	2,3	1,4	
	dB(A)	26	<15	
400	Ve	5,6	3,7	
	L	3,7	3,1	
	ΔP	2,7	1,6	
	dB(A)	31	18	
450	Ve	6,2	4,2	3,1
	L	2,3	3,4	3,1
	ΔP	3,3	1,8	1,3
	dB(A)	37	23	<15
500	Ve		4,6	3,5
	L		3,7	3,3
	ΔP		2,1	1,5
	dB(A)		28	18
550	Ve		5,1	3,8
	L		4	3,6
	ΔP		2,4	1,7
	dB(A)		32	22
600	Ve			4,2
	L			3,8
	ΔP			1,8
	dB(A)			26
650	Ve			4,5
	L			4,1
	ΔP			2
	dB(A)			29

DF10C (WITH SLIDE ADJUSTMENT)				
N° Slots	1	2	3	4
100	Ve	5,6		
	L	2,8		
	ΔP	2,7		
	dB(A)	18		
150	Ve	8,3	4,2	
	L	3,8	3	
	ΔP	5,3	1,8	
	dB(A)	35	<15	
200	Ve	5,6		
	L	3,7		
	ΔP	2,7		
	dB(A)	25		
250	Ve	6,9	4,6	
	L	4,4	3,7	
	ΔP	3,9	2,1	
	dB(A)	34	21	
300	Ve		5,6	4,2
	L		4,3	3,8
	ΔP		2,7	1,8
	dB(A)		29	19
350	Ve		6,5	4,9
	L		4,9	4,3
	ΔP		3,5	2,3
	dB(A)		35	26
400	Ve			5,6
	L			4,8
	ΔP			2,7
	dB(A)			31
450	Ve			6,2
	L			5,3
	ΔP			3,3
	dB(A)			37
500	Ve			
	L			
	ΔP			
	dB(A)			
550	Ve			
	L			
	ΔP			
	dB(A)			
600	Ve			
	L			
	ΔP			
	dB(A)			
650	Ve			
	L			
	ΔP			
	dB(A)			

Ve = Air velocity through diffuser neck

dB(A) = Sound level.

ΔP = Pressure drop mm c.a.

L = Range in m.l. for final speed 0.2-0.5 m/s.

LINEAR DIFFUSER

SERIE DF

Serie	Model	Meas's	Finish (Diffuser)	Finish (Blades)	Accessories
	10	10PA	ALU	AN (Estandar)	PM
DF	10C	10CP	LB	AB	PR
	10P	10CPA	RAL	A.RAL	

DF10C-1000X2SLOTS-ALU+AB+PM-PR

DESCRIPTION

SERIE

- DF: Linear diffuser.

MODEL

- DF10C: Linear diffuser with directional blades and flow regulation (slide control damper).

MEASUREMENT (mm)

- LxV: 1000mm x 2 slots.

FINISH

- Alu: Anodized aluminium.

BLADE FINISH

- AB: White blades.

ACCESSORIES (optional)

- PM: Crossbar for 2 slots.
- PR: 2-slots finishing pair.

Order example: DF10C 1000x2-slots ALU+AB+PM+PR

- To order linear diffuser, 1000mm x2 slots, flow regulation (slide control damper), made in anodized aluminium with white blades, crossbar and finishing pair, you should request:

Order	Description	Will be supplied
1 Diffuser DF10C 1000x2V-Alu-AB	Linear diffuser, 1000mm x2-slots, flow regulation (slide control damper), made in anodized aluminium with white blades.	1 Linear diffuser, 1000mm x2-slots, flow regulation (slide control damper), made in anodized aluminium with white blades.
2 Crosbars PM2V	Crossbar for 2-slots linear diffuser.	2 Crossbar for 2-slots linear diffuser.
1 Pair PR2V	Finishing pair for 2-slots linear diffuser.	1 Finishing pair for 2-slots linear diffuser.

Order example: DF10P 3000x1-slot LB+ AN + PR

- To order linear diffuser, 3000mm x1 slot, white lacquered, fixed plenum and black blades, you should request:

Order	Description	Will be supplied
1 Diffuser DF10P 3000x1V-LB	Linear diffuser, 3000mm x1-slot, white lacquered, black blades, fixed connection plenum attached to the diffuser by means of rivets.	2 Linear diffuser, 1500mm x1-slot each, white lacquered, black blades, fixed connection plenum attached to the diffuser by means of rivets.
1 Pair PR1V	Finishing pair for 1-slot linear diffuser.	1 Finishing pair for linear diffuser. Each pair installed on each side of the diffuser.



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