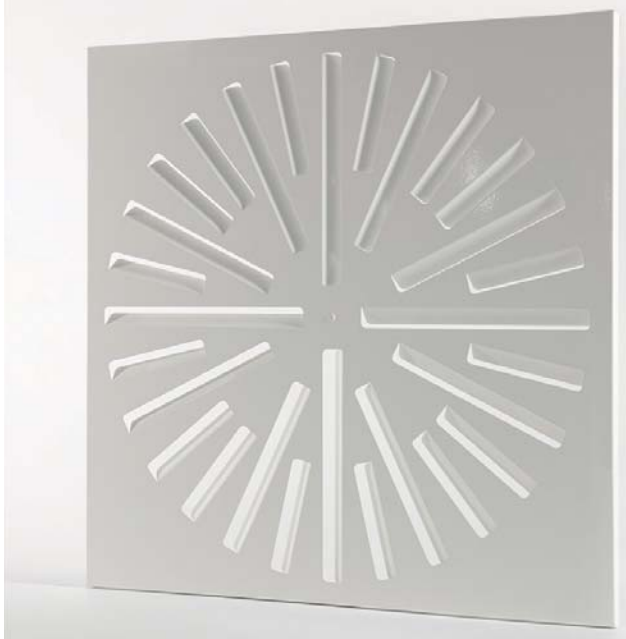
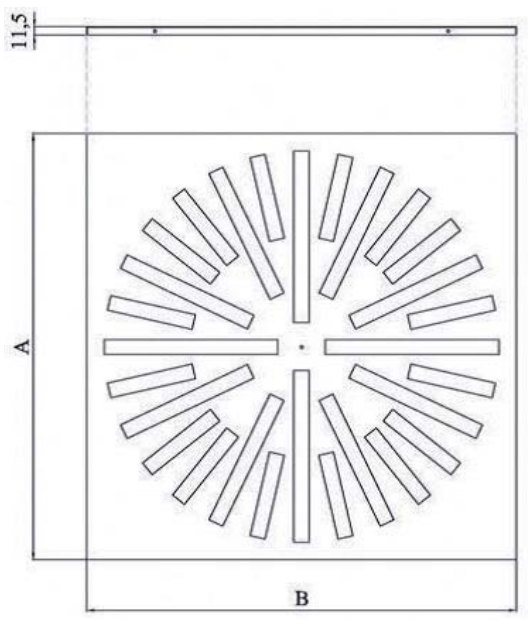


DAF01

Helical effect diffuser with fixed deflectors arranged radially with a high induction ratio (mixing capacity) between the input air and the ambient air. Consisting of a plate with slots and fixed deflectors folded inwards.
The construction of the diffuser without separate components allows easy cleaning, maintenance and durability.

TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MATERIAL	SURFACE FINISH	COLOR	FASTENING
2,5 to 4 m	The diffuser can also be used for air return.	Painted steel panel.	Epoxy powder coating resistant to impact and abrasion	RAL 9010 white. On request, coating in non-standard RAL colors.	by means of side screws or a central screw



GREEN BUILDING

Thanks also to the support of GreenMap, products manufactured by Tecnica srl contribute to obtain the credits of the major international rating systems for suistainable buildings:

LEED
Contributes to credits:
IP, EA, MR

WELL
Contributes to credits:
MATERIALS, COMMUNITY

BREEAM
Contributes to credits:
MAN, WST

For further details about specific contributions to the credits indicated, contact Tecnica Srl

TECHNICAL DATA

Model	A [mm]	B [mm]
DAF01 300	295	295
DAF01 400	395	395
DAF01 500	495	495
DAF01 600	595	595
DAF01 625	625	625
DAF01 800	795	795

TECNICA™ Efficient Indoor Air Project

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APPLICATIONS								
Residential	Easy Pack	Calculation Method	REACH Certificat	RoHS Certificat	Industry	Building	Air Conditioning	Interior design

*on request

Selection charts

Flow Rate / Pressure Drop
Air Otlet Speed / Noise Level / Horizontal Throw (Vt.: 0,25m/s)

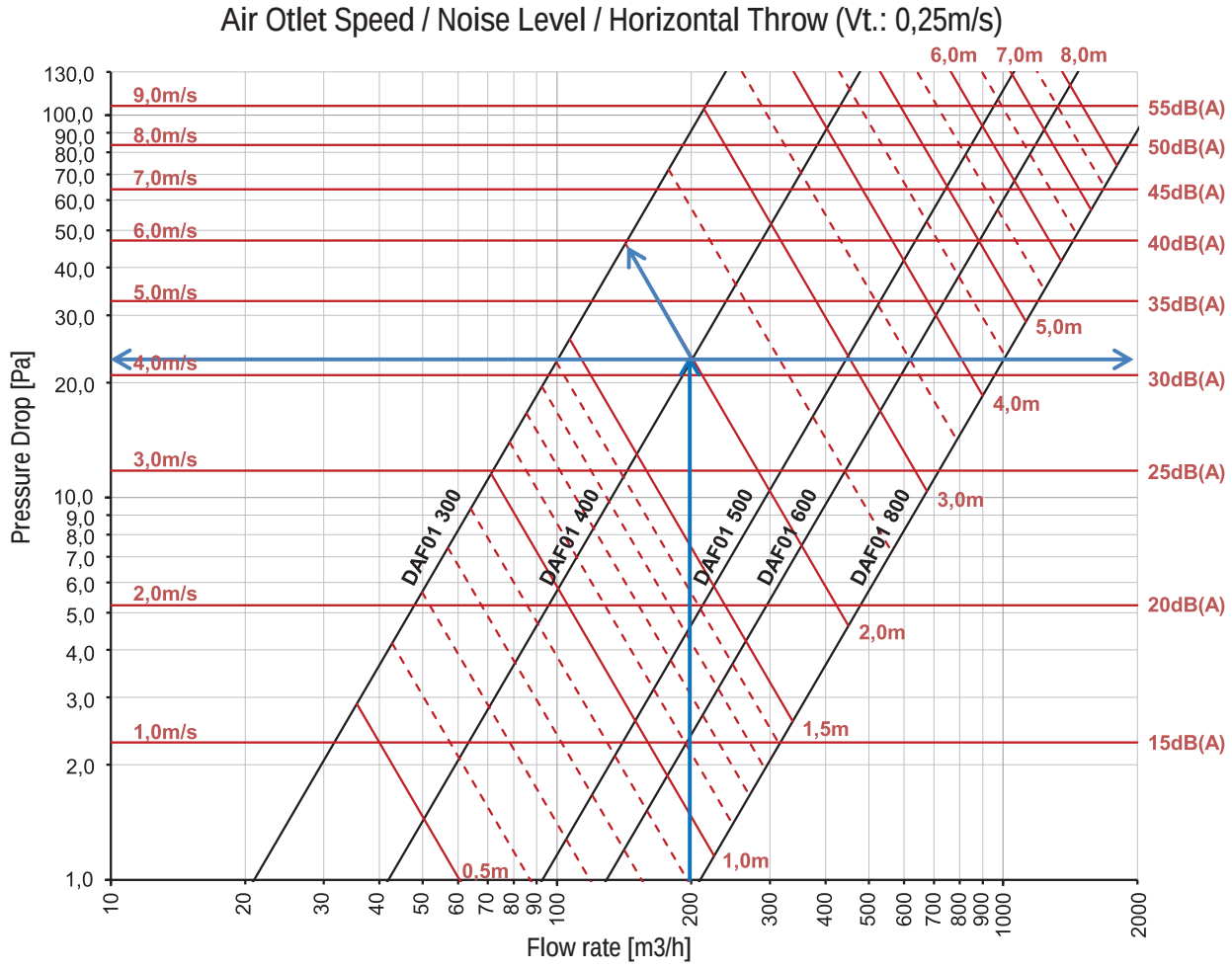

Diagram 1

The diagram shows the diffuser pressure drop based on the flow rate with relative indication of the noise level without environmental attenuation, air outlet speed and horizontal throw with terminal speed equal to 0.25m/s.

Note: Pressure drop data shown in the diagram refer to the diffuser with the damper fully open.

CALCULATION (input data)	
Total Flow Rate	2000 m^3/h
Max Noise Level	35dB(A)
Number of diffusers expected	10pz.
Horizontal Isothermal Throw	2,00m

SELECTION	
Model	DAF01 400
Flow Rate	200 m^3/h
Pressure Drop	+/- 23Pa
Noise Level	33dB(A)
Inlet Air Speed	Flow Rate/ (Ak * 3600) = 4,17m/s
Horizontal Isothermal Throw	2,0m

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MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
DAF01 300 Ak: 0,0067m2	Flow Rate	m3/h	24	48	72	96	120	144	168	192	215	239
	Pressure Drop	Pa	1	5	12	21	33	47	64	84	106	131
	Horizontal Throw Vt 0,25m/s	mt	0,3	0,7	1,0	1,3	1,7	2,0	2,4	2,7	3,0	3,4
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
DAF01 400 Ak: 0,0133m2	Flow Rate	m3/h	48	96	144	192	239	287	335	383	431	479
	Pressure Drop	Pa	1	5	12	21	33	47	64	84	106	131
	Horizontal Throw Vt 0,25m/s	mt	0,5	1,0	1,4	1,9	2,4	2,9	3,3	3,8	4,3	4,8
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
DAF01 500 Ak: 0,0410m2	Flow Rate	m3/h	106	212	318	424	530	636	742	848	954	1060
	Pressure Drop	Pa	1	5	12	21	33	47	64	84	106	131
	Horizontal Throw Vt 0,25m/s	mt	0,7	1,4	2,1	2,8	3,5	4,2	5,0	5,7	6,4	7,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
DAF01 600 Ak: 0,0410m2	Flow Rate	m3/h	148	295	443	590	738	886	1033	1181	1328	1476
	Pressure Drop	Pa	1	5	12	21	33	47	64	84	106	131
	Horizontal Throw Vt 0,25m/s	mt	0,8	1,7	2,5	3,3	4,2	5,0	5,8	6,7	7,5	8,4
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
DAF01 625 Ak: 0,0410m2	Flow Rate	m3/h	148	295	443	590	738	886	1033	1181	1328	1476
	Pressure Drop	Pa	1	5	12	21	33	47	64	84	106	131
	Horizontal Throw Vt 0,25m/s	mt	0,8	1,7	2,5	3,3	4,2	5,0	5,8	6,7	7,5	8,4
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
DAF01 800 Ak: 0,0665m2	Flow Rate	m3/h	239	479	718	958	1197	1436	1676	1915	2155	2394
	Pressure Drop	Pa	1	5	12	21	33	47	64	84	106	131
	Horizontal Throw Vt 0,25m/s	mt	1,1	2,1	3,2	4,3	5,3	6,4	7,4	8,5	9,6	10,6
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60

Note: the data indicated refer to operation in isothermal conditions

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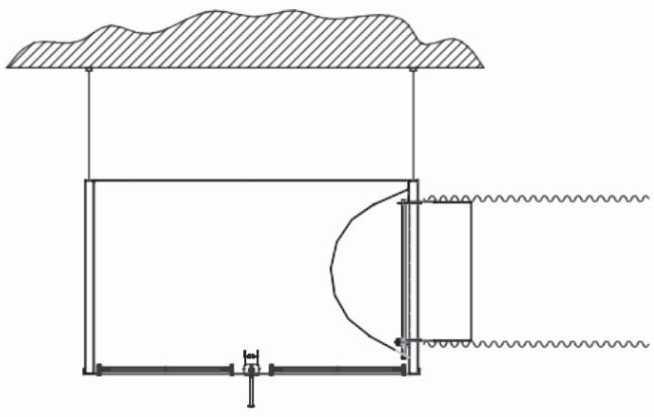

FIG. 1

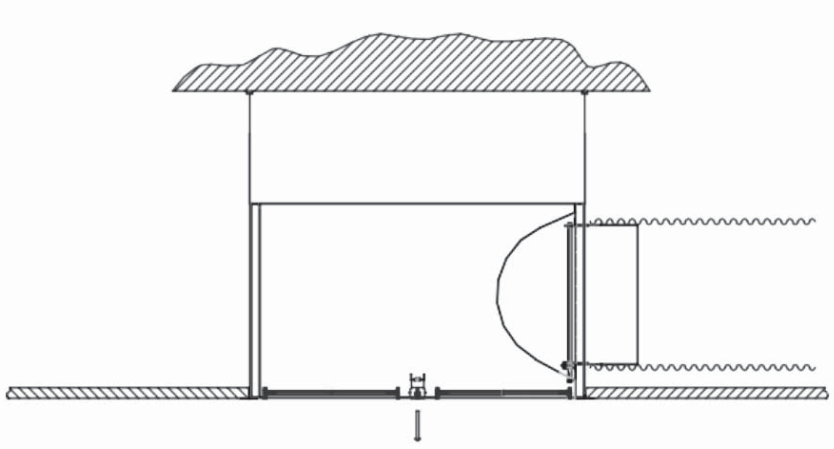

FIG. 2

Easy installation, adjustments and maintenance. The diffusers are fastened to the plenum by means of side screws or a central screw.

Fig. 1 Installation with plenum fastened on the ceiling

- Hang the plenum on the ceiling using brackets or chains fastened on the plenum whose outer edge can be drilled.
- Fit the flexible duct on the connecting sleeve and fasten it with a hose clamp.
- Make a preliminary adjustment to the damper by acting on the pin with Allen screw and tightening the hexagonal-head screw that fastens the pin.
- Fit the diffuser using either a central screw screwing it onto the plenum bridge (if provided) or 4 self-tapping side screws.

Fig. 2 Installation on the false ceiling

- Hang the false ceiling elements on the ceiling.
- Make a preliminary adjustment to the damper by acting on the pin with Allen screw and tightening the hexagonalhead screw that fastens the pin.
- Fit the flexible duct on the connecting sleeve and fasten it with a hose clamp.
- Fit the diffuser using either a central screw screwing it onto the plenum bridge (if provided) or 4 self-tapping side screws.
- Rest the diffuser pre-fitted on the plenum on the square space of the false ceiling.

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