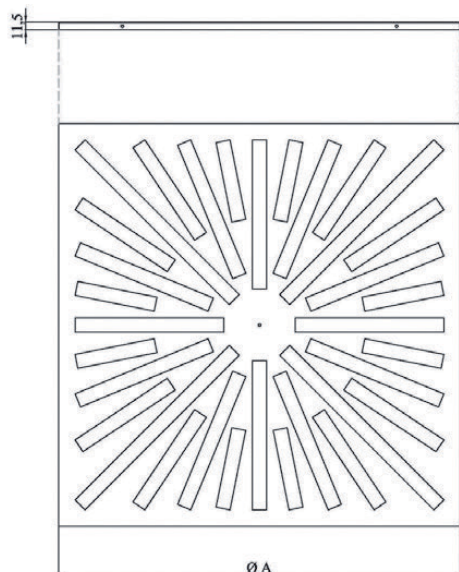


DAM31

Helical-effect diffuser with helically arranged adjustable deflectors with a high induction ratio (mixing capacity) between the injected and the ambient air. Made up of a plate with holes inside which adjustable plastic deflectors are housed. The helical flow of the air injected can be oriented clockwise, anticlockwise or alternating by changing the position of the deflectors.

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; in this case it is supplied without deflecting fins. The deflectors can also be oriented after the diffuser has been installed in order to make adjustments to optimise airflow in the room once the system is running.	Painted steel panel, ABS supports and black PVC deflectors	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 sustainable buildings:



LEED

Contributes to credits:
IP, EA, MR



WELL

Contributes to credits:
MATERIALS, COMMUNITY

BREEAM®

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]
DAM31 300	295	295
DAM31 400	395	395
DAM31 500	495	495
DAM31 600	595	595
DAM31 625	625	625
DAM31 800	795	795

APPLICATIONS

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

Selection charts

*on request

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

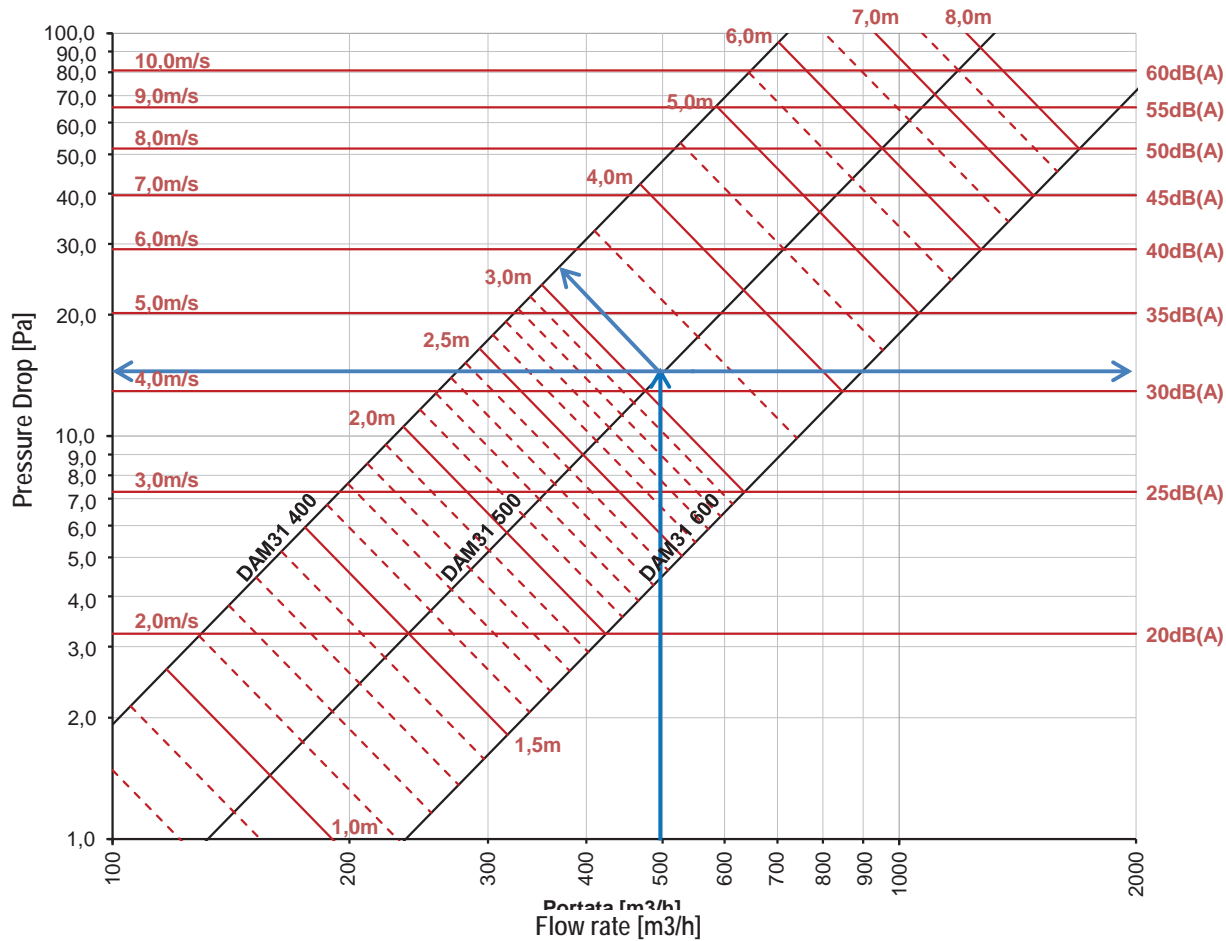


Diagram 1

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	5000 m ³ /h
Max Noise Level	35dB(A)
Number of diffusers expected	10pz.
Horizontal Isothermal Throw	3,2m

SELECTION	
Model	DAM31 500
Flow Rate	500 m ³ /h
Pressure Drop	+/- 15Pa
Noise Level	33dB(A)
Inlet Air Speed	Flow Rate/ (Ak * 3600) = 4,21m/s
Horizontal Isothermal Throw	+/- 3,20m

MODELLO	DESCRIZIONE	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
DAM31 400 Ak: 0,0180m ²	Flow Rate	m ³ /h	65	130	194	259	324	389	454	518	583	648
	Pressure Drop	Pa	1	3	7	13	20	29	40	52	65	81
	Horizontal Throw Vt 0,25m/s	mt	0,6	1,1	1,7	2,2	2,8	3,3	3,9	4,4	5,0	5,5
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
DAM31 500 Ak: 0,0330m ²	Flow Rate	m ³ /h	119	238	356	475	594	713	832	950	1069	1188
	Pressure Drop	Pa	1	3	7	13	20	29	40	52	65	81
	Horizontal Throw Vt 0,25m/s	mt	0,7	1,5	2,2	3,0	3,7	4,5	5,2	6,0	6,7	7,5
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
DAM31 600 Ak: 0,0589m ²	Flow Rate	m ³ /h	212	424	636	848	1060	1272	1484	1696	1908	2120
	Pressure Drop	Pa	1	3	7	13	20	29	40	52	65	81
	Horizontal Throw Vt 0,25m/s	mt	1,0	2,0	3,0	4,0	5,0	6,0	7,0	8,0	9,0	10,0
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60

Note: the data indicated refer to operation in isothermal conditions